

# **2017 Conference on Lasers and Electro-Optics Europe & European Quantum Electronics Conference (CLEO/Europe-EQEC 2017)**

**Munich, Germany  
25-29 June 2017**

**Pages 1-538**



**IEEE Catalog Number: CFP17ECL-POD  
ISBN: 978-1-5090-6737-4**

**Copyright © 2017 by the Institute of Electrical and Electronics Engineers, Inc.  
All Rights Reserved**

*Copyright and Reprint Permissions:* Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***\*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP17ECL-POD
ISBN (Print-On-Demand):	978-1-5090-6737-4
ISBN (Online):	978-1-5090-6736-7

**Additional Copies of This Publication Are Available From:**

Curran Associates, Inc  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: (845) 758-0400  
Fax: (845) 758-2633  
E-mail: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

# TABLE OF CONTENTS

<b>MID-IR (4–5 <math>\mu\text{M}</math>) HYBRID SUB-GW <math>\text{Fe}^{2+}</math>:ZNSE FEMTOSECOND LASER SYSTEM</b> .....	1
<i>Fedor Potemkin ; Ekaterina Migal ; Andrew Pushkin ; Anatoliy Sirotkin ; Vladimir Kozlovsky ; Yuri Korostelin ; Yuri Podmar'Kov ; Vladimir Firsov ; Mikhail Frolov ; Vyacheslav Gordienko</i>	
<b>GRAPHITIC CARBON NITRIDE: A NEW SATURABLE ABSORBER FOR <math>\sim 3 \mu\text{M}</math></b> .....	2
<i>Mingqi Fan ; Tao Li ; Guiqiu Li ; Kejian Yang ; Dechun Li ; Christian Kränkel</i>	
<b>1 WATT, 59 % SLOPE EFFICIENCY, 2.65 PM <math>\text{Cr}^{2+}</math>:CDSE LASER WITH TENABILITY OF 560 NM</b> .....	3
<i>Yuchen Wang ; Mikhail K. Tarabrin ; Toney T. Fernandez ; Vladimir A. Lazarev ; Stanislav O. Leonov ; Valeriy E. Karasik ; Yuri V. Korostelin ; Mikhail P. Frolov ; Yuri P. Podmarkov ; Yan K. Skasyrsky ; Vladimir I. Kozlovsky ; Cesare Svelto ; Pasquale Maddaloni ; Nicola Coluccelli ; Paolo Laporta ; Gianluca Galzerano</i>	
<b>CHARACTERIZATION OF <math>\text{Er}:\text{Lu}_2\text{O}_3</math> CERAMIC LASERS FOR EFFICIENT EMISSION AT 2.8 <math>\mu\text{M}</math></b> .....	4
<i>Hiyori Uehara ; Ryo Yasuhara ; Shigeki Tokita ; Masanao Murakami ; Seiji Shimizu</i>	
<b>THREE-MICRON <math>\text{Cr}^{3+}\text{Yb}^{3+}\text{Ho}^{3+}</math>:YSGG LASER PASSIVELY Q-SWITCHED BY <math>\text{Fe}^{2+}</math>:ZNSE CRYSTAL</b> .....	5
<i>Petr G. Zverev ; Yulia V. Kerv ; Veronika G. Ivanova ; Anatoly A. Sirotkin ; Alexander A. Zagumennyi ; Evgenii M. Gavrilshchuk ; Igor G. Kononov</i>	
<b>MID-INFRARED 3–5 <math>\mu\text{m}</math> OPTICAL VORTEX MGO:PPLN PARAMETRIC OSCILLATOR</b> .....	6
<i>Taximaiti Yusufu ; Palidan Aierken ; Katsuhiko Miyamoto ; Takashige Omatsu</i>	
<b>YELLOW PICOSECOND DIAMOND RAMAN LASER</b> .....	7
<i>Jari Nikkinen ; Sean Reilly ; Vasil Savitski ; Antti Härkönen ; Alan Kemp ; Mircea Guina</i>	
<b>SINGLE-LONGITUDINAL-MODE RING DIAMOND RAMAN LASER</b> .....	8
<i>David J. Spence ; Ondrej Kitzler ; Jipeng Lin ; Helen M. Pask ; Stephen C. Webster ; Nils Hempler ; Graeme P. A. Malcolm ; Richard P. Mildren</i>	
<b>CASCADED CONTINUOUS-WAVE RAMAN FREQUENCY CONVERSION IN EXTERNAL-CAVITY DIAMOND LASERS</b> .....	9
<i>Robert J. Williams ; David J. Spence ; Oliver Lux ; Richard P. Mildren</i>	
<b>CONTINUOUS-WAVE, CASCADED RAMAN LASER AT 1.3, 1.5, AND 1.7 <math>\mu\text{M}</math></b> .....	10
<i>Riccardo Casula ; Jussi-Pekka Penttinen ; Mircea Guina ; Alan J. Kemp ; Jennifer E. Hastie</i>	
<b>HIGH-POWER SINGLE-PASS PUMPED DIAMOND RAMAN LASER</b> .....	11
<i>Matthias Heinzig ; Till Walbaum ; Robert J. Williams ; Ondrej Kitzler ; Richard P. Mildren ; Thomas Schreiber ; Ramona Eberhardt ; Andreas Tünnermann</i>	
<b>TOWARDS HIGH PULSE RATE, HIGH ENERGY LASERS IN THE EYE-SAFE USING DIAMOND</b> .....	12
<i>A. McKay ; R. P. Mildren</i>	
<b>HOLMIUM THIN-DISK LASER AT 2056 NM BASED ON <math>\text{Ho}:\text{KYW}/\text{KYW}</math> EPITAXY</b> .....	13
<i>Xavier Mateos ; Samir Lamrini ; Karsten Scholle ; Peter Fuhrberg ; Sergei Vatnik ; Pavel Loiko ; Magdalena Aguiló ; Francesc Díaz ; Uwe Griebner ; Valentin Petrov</i>	
<b><math>\text{Er}, \text{Yb}:\text{GDAL}_3(\text{BO}_3)_4</math> LASER PASSIVELY Q-SWITCHED BY MBE-GROWN <math>\text{Cr}:\text{Zns}</math> THIN FILMS</b> .....	14
<i>K. N. Gorbachenya ; V. E. Kisel ; A. S. Yasukevich ; N. Tolstik ; E. Karhu ; V. Furtula ; E. Sorokin ; V. V. Maltsev ; N. I. Leonyuk ; A. Galinis ; T. Lipinskas ; U. Gibson ; I. T. Sorokina ; N. V. Kuleshov</i>	
<b>THERMALLY-GUIDED FIBER-ROD LASER</b> .....	15
<i>C. R. Smith ; N. Simakov ; A. Hemming ; W. A. Clarkson</i>	
<b>ALEXANDRITE LASER LED-PUMPED VIA CE-DOPED LUMINESCENT CONCENTRATORS</b> .....	16
<i>Pierre Pichon ; Frédéric Druon ; Jean-Philippe Blanchot ; François Balembois ; Patrick Georges</i>	
<b>POWER SCALING, Q-SWITCHING AND FREQUENCY CONVERSION OF <math>\text{Pr}^{3+}</math>:YLF LASER DIRECTLY PUMPED BY INGAN BLUE DIODE LASERS</b> .....	17
<i>Hiroki Tanaka ; Kodai Iijima ; Yasuaki Kiyota ; Fumihiko Kannari</i>	
<b>AMPLIFICATION OF DUV SOLID-STATE LASER PULSE USING ARF LASER</b> .....	18
<i>Masaki Arakawa ; Yuki Tamaru ; Atsushi Fuchimukai ; Yoichi Sasaki ; Takashi Onose ; Mitsuru Tamiya ; Taisuke Miura ; Tomoharu Nakazato ; Shuntaro Watanabe ; Takashi Matsunaga</i>	
<b>CW THIN-DISK LASER EMITTING KW-CLASS BEAMS WITH RADIAL POLARIZATION</b> .....	19
<i>Tom Dietrich ; Martin Rumpel ; Liwei Fu ; Christof Pruss ; Wolfgang Osten ; Marwan Abdou Ahmed ; Thomas Graf</i>	
<b>EFFICIENT ASTIGMATIC MODE-CONVERTER BASED ON SPHERICAL MIRRORS</b> .....	20
<i>R. T. Uren ; W. A. Clarkson</i>	
<b>Q-SWITCHED SELF-RAMAN VORTEX LASER USING A DEFECT MIRROR</b> .....	21
<i>Shungo Araki ; Ran Li ; Andrew J. Lee ; Helen M. Pask ; Takashige Omatsu</i>	
<b>MILLIJOULE-LEVEL, ULTRA-BROADBAND TUNABLE (0.67–2.4 <math>\mu\text{M}</math>) OPTICAL VORTEX PARAMETRIC LASER</b> .....	22
<i>Shungo Araki ; Kensuke Suzuki ; Shigeki Nishida ; Roukuya Mamuti ; Katsuhiko Miyamoto ; Takashige Omatsu</i>	
<b>ANTI-RESONANT RING LASER CAVITIES</b> .....	23
<i>William R. Kerridge-Johns ; Michael J. Damzen</i>	
<b>PHOTONIC CRYSTAL MICROCHIP LASER</b> .....	24
<i>K. Staliunas ; D. Gailevicius ; V. Koliadenko ; V. Taranenko ; V. Purlys ; M. Peckus</i>	
<b>ALL-OPTICAL SWITCHING USING TRANSVERSE MODES IN INTEGRATED WAVEGUIDES</b> .....	25
<i>Niklas M. Lüpken ; Tim Hellwig ; Martin Schnack ; Klaus-J. Boller ; Carsten Fallnich</i>	
<b>POWER AND EFFICIENCY SCALING OF DIODE PUMPED <math>\text{Cr}:\text{LISAF}</math> LASERS</b> .....	26
<i>Umit Demibas ; Dürmus Alp Emre Acar ; Ilyas Baali</i>	

<b>HIGH-ENERGY DIODE-PUMPED ALEXANDRITE LASER DEVELOPMENT FOR REMOTE SENSING</b> .....	27
<i>A. T. Coney ; G. M. Thomas ; A. Minassian ; M. J. Damzen</i>	
<b>HIGH POWER AND HIGH ENERGY DIODE-PUMPED ALEXANDRITE LASERS</b> .....	28
<i>Gabrielle M. Thomas ; Ara Minassian ; William Kerridge-Johns ; Xin Sheng ; Alexander Coney ; Michael J. Damzen</i>	
<b>CLEO@EUROPE-EQEC 2017 THIN-DISK TI:SAPPHIRE LASER ARRAYS FOR MANY-BEAM GENERATION AND POWER SCALING</b> .....	29
<i>Austin W. Steinforth ; José A. Rivera ; J. Gary Eden</i>	
<b>TI:SAPPHIRE LASER DIRECTLY PUMPED BY 478- AND 520-NM LASER DIODES</b> .....	30
<i>Naoto Sugiyama ; Hiroki Tanaka ; Fumihiko Kannari</i>	
<b>HIGH ENERGY SUB-NANOSECOND KILOHERTZ AMPLIFIED LASER SOURCES NEAR 1 <math>\mu</math>M</b> .....	31
<i>Ivan Buchvarov</i>	
<b>HIGH-ENERGY LASER PULSES AT 1064 NM WITH COMPLEX TEMPORAL SHAPES</b> .....	32
<i>Randy A. Meijer ; Aneta Stodolna ; Stefan Witte ; Kjeld S. E. Eikema</i>	
<b>TUNABLE CR:ND:GSGG LASERS PUMPED BY RED DIODES</b> .....	33
<i>Umit Demirbas ; Talha Yerebakan ; Stefan Eggert ; Rainer Bertram ; Peter Reiche ; Alfred Leitenstorfer</i>	
<b>ROOM-TEMPERATURE-BONDED ND:YAG/DIAMOND-COMPOSITE LASER WITH AN ANTI-REFLECTION COATING LAYER AT THE BONDED INTERFACE FOR HIGH-POWER AND HIGHLY EFFICIENT OSCILLATION</b> .....	34
<i>Tomo Katsumata ; Hiromasa Ichikawa ; Ichiro Shoji</i>	
<b>USE OF SCATTERING COOLING LIQUID IN A SOLAR ND:YAG LASER</b> .....	35
<i>Conor J. C. Smyth ; Shamil Mirkhanov ; Adrian H. Quarterman ; Keith G. Wilcox</i>	
<b>HIGH POWER CRYOGENICALLY COOLED HO:YAG LASER</b> .....	36
<i>Miftar Ganija ; Alexander Hemming ; Nikita Simakov ; John Haub ; Peter Veitch ; Jesper Munch</i>	
<b>SINGLE-WALLED CARBON NANOTUBES OUST GRAPHENE AND SEMICONDUCTOR SATURABLE ABSORBERS IN Q-SWITCHED SOLID-STATE LASERS AT 2 <math>\mu</math>M</b> .....	37
<i>Pavel Loiko ; Xavier Mateos ; Josep Maria Serres ; Ruijun Lan ; Sun Young Choi ; Fabian Rotermund ; Yicheng Wang ; Jiang Li ; Yubai Pan ; Magdalena Aguiló ; Francesc Díaz ; Uwe Griebner ; Valentin Petrov</i>	
<b>KERR-LENS MODE-LOCKED TM<sup>3+</sup>:SC<sub>2</sub>O<sub>3</sub> SINGLE CRYSTAL LASER IN-BAND PUMPED BY A 1611NM ER:YB FIBER MOPA</b> .....	38
<i>Masaki Tokurakawa ; Yutaka Mashiko ; Eisuke Fujita ; Christian Krankel</i>	
<b>COMPACT 2.1 <math>\mu</math>M Q-SWITCHED HO:YAG LASER INTRA-CAVITY PUMPED BY A 2 <math>\mu</math>M OPSDL</b> .....	39
<i>K. Scholle ; S. Lamrini ; S. Adler ; P. Holl ; E. Diwo-Emmer ; M. Rattunde ; P. Fuhrberg</i>	
<b>KERR-LENS MODE-LOCKED HO:YAG THIN-DISK OSCILLATOR AT 2.1 <math>\mu</math>M</b> .....	40
<i>Jinwei Zhang ; Ka Fai Mak ; Sebastian Gröbmeyer ; Dominik Bauer ; Dirk Sutter ; Vladimir Pervak ; Ferenc Krausz ; Oleg Pronin</i>	
<b>PICOSECOND YB-DOPED FIBER LASER SOURCE WITH A REPETITION RATE CONTINUOUSLY TUNABLE BETWEEN 11 AND 18 GHZ</b> .....	41
<i>Adrien Aubourg ; Jérôme Lhermite ; Steve Hocquet ; Giorgio Santarelli ; Eric Cormier</i>	
<b>HIGH REPETITION RATE FS PULSE BURST GENERATION USING THE VERNIER EFFECT</b> .....	42
<i>Tobias Flöry ; Giedrius Andriukaitis ; Martynas Barkauskas ; Edgar Kaksis ; Ignas Astrauskas ; Audrius Pugžlys ; Andrius Baltuška ; Romualdas Danielius ; Almantas Galvanauskas ; Tadas Balciunas</i>	
<b>HYBRID ARCHITECTURE FOR HIGH ENERGY LASERS DELIVERING SUB-500 FS PULSES</b> .....	43
<i>Damien Sangla ; Pierre Sévillano ; Magali Durand ; Olivier Alexaline ; Benoit Trophème ; Antoine Courjaud</i>	
<b>BROAD-BAND SEEDED CHIRPED PULSE YB:CALYO REGENERATIVE AMPLIFIER</b> .....	44
<i>Alexander Rudenkov ; Viktor Kisel ; Anatol Yasukevich ; Karine Hovhannesian ; Ashot Petrosyan ; Nikolay Kuleshov</i>	
<b>FEMTOSECOND MODE-LOCKED YB<sup>3+</sup>-DOPED CAF<sub>2</sub>-LAF<sub>3</sub> CERAMIC LASER</b> .....	45
<i>Shotaro Kitajima ; Akira Shirakawa ; Ken-Ichi Ueda ; Hitoshi Ishizawa</i>	
<b>FIBER LASER PUMPED YB:CAF<sub>2</sub> REGENERATIVE AMPLIFIER DELIVERING 130 FS PULSES WITH 4.3 W OUTPUT POWER</b> .....	46
<i>P. Sevillano ; P. Camy ; J. L. Doualan ; R. Moncorgé ; D. Descamps ; E. Cormier</i>	
<b>64-FS PULSES FROM A KERR-LENS MODELOCKED YB:LUO THIN-DISK LASER</b> .....	47
<i>Norbert Madsching ; Clément Paradis ; Valentin J. Wittwer ; Bastian Deppe ; Christian Kränkel ; Thomas Südmeyer</i>	
<b>TOWARDS ACTIVE MULTIPASS KERR-LENS MODE-LOCKED YB:YAG THIN-DISK OSCILLATORS</b> .....	48
<i>Markus Poetzlberger ; Jonathan Brons ; Jinwei Zhang ; Dominik Bauer ; Dirk Sutter ; Ferenc Krausz ; Oleg Pronin</i>	
<b>MHZ REPETITION RATE YB:YAG DISK LASER-AMPLIFIER FOR TRANSFORM LIMITED PULSES, TUNABLE BETWEEN 10 PS AND 100 PS</b> .....	49
<i>M. Siebold ; M. Loeser ; C. Bernert ; D. Albach ; U. Schramm</i>	
<b>HIGHLY STABLE 5 KHZ 200MJ ULTRAFast THIN-DISK LASER</b> .....	50
<i>Martin Kaumanns ; Thomas Nubbemeyer ; Moritz Ueffing ; Margin Gorjan ; Helena G. Barros ; Zsuzsanna Major ; Thomas Metzger ; Dirk Sutter ; Ferenc Krausz</i>	
<b>INTRA-CAVITY COMPENSATION OF WAVEFRONT DISTORTIONS IN KW-LEVEL THIN-DISK LASERS</b> .....	51
<i>Stefan Piehler ; Tom Dietrich ; Philipp Wittmüss ; Marwan Abdou Ahmed ; Oliver Sawodny ; Thomas Graf</i>	
<b>POWER-SCALING OF A TI:SAPPHIRE THIN-DISK OSCILLATOR</b> .....	52
<i>Jan-Hinnerk Wolter ; Marwan Abdou Ahmed ; Thomas Graf</i>	
<b>SELF-REGULATED INTENSITY NOISE DUAL-FREQUENCY LASER USING THE BUFFER RESERVOIR APPROACH</b> .....	53
<i>Kevin Audo ; Abdelkrim El Amili ; Mehdi Alouini</i>	
<b>OPTICAL INJECTION METHOD FOR THE MEASUREMENT OF SMALL LINEWIDTH ENHANCEMENT FACTOR IN SOLID-STATE LASERS</b> .....	54
<i>Aurélien Thorette ; Marco Romanelli ; Marc Vallet</i>	

<b>STABILIZATION AND CHARACTERIZATION OF ULTRA-LOW NOISE LASERS FOR GRAVITATIONAL WAVE DETECTORS</b> .....	55
<i>Benno Willke</i>	
<b>INJECTION SEEDED NS-PULSED ND:YAG LASER AT 1116 NM FOR FE-LIDAR</b> .....	56
<i>Alexander Fischer ; Matthias Damm ; Peter Mahnke ; Daniel Sauder ; Hans Christian Büdenbender ; Jochen Speiser</i>	
<b>LOW-NOISE PASSIVE HARMONICALLY MODE-LOCKED YB:CALCO LASER OSCILLATOR</b> .....	57
<i>Hauke M. Bensch ; Georg Herink ; Felix Kurtz ; Uwe Morgner</i>	
<b>THE FIRST MULTI-JOULE DPSSL WITH 1 KW AVERAGE POWER</b> .....	58
<i>Paul Mason ; Martin Divoký ; Thomas Butcher ; Jan Pilar ; Klaus Ertel ; Martin Hanuš ; Mariastefania De Vido ; Saumyabrata Banerjee ; Jonathan Phillips ; Jodie Smith ; Antonio Lucianetti ; Cristina Hernandez-Gomez ; Chris Edwards ; Tomas Mocek ; John Collier</i>	
<b>CURRENT STATUS AND DEVELOPMENT OF THE 10 HZ, 1 PICOSECOND, 2 J AND 10 J YB:YAG CPA AMPLIFIERS OF THE PETAWATT FIELD SYNTHESIZER</b> .....	59
<i>Mathias Krüger ; Andreas Münzer ; Alexander Kessel ; Olga Lysov ; Vyacheslav E. Leshchenko ; Sergei A. Trushin ; Zsuzsanna Major ; Ferenc Krausz ; Stefan Karsch</i>	
<b>HILASE: NEW LASERS FOR INDUSTRY AND RESEARCH</b> .....	60
<i>Tomas Mocek</i>	
<b>DEVELOPMENT OF A VARIABLE REPETITION RATE, KW-LEVEL, PICOSECOND RING REGENERATIVE AMPLIFIER</b> .....	61
<i>J. Mužik ; M. Smrž ; M. Chyla ; V. Kubecek ; A. Endo ; T. Mocek</i>	
<b>HIGH REPETITION RATE (100HZ), HIGH PEAK INTENSITY (<math>10^{19}</math>W.CM<sup>-2</sup>), HIGH CONTRAST FEMTOSECOND LASER CHAIN</b> .....	62
<i>R. Clady ; V. Tcheremiskine ; Y. Azamoum ; A. Ferré ; L. Charmasson ; O. Utéza ; M. Sentis</i>	
<b>PASSIVELY SESAM Q-SWITCHED RED-DIODE-PUMPED ALEXANDRITE LASER</b> .....	63
<i>X. Sheng ; U. Parali ; G. M. Thomas ; A. Minassian ; M. J. Damzen</i>	
<b>FREQUENCY STABILIZED INJECTION SEEDED Q-SWITCHED HO:YAG LASER FOR 2 μM DOPPLER WIND LIDARS</b> .....	64
<i>Günther Renz ; Daniel Oberbeckmann ; Gerhard Geyer ; Peter Mahnke</i>	
<b>TEMPERATURE INFLUENCE ON DIODE-PUMPED DY<sup>2+</sup>:CAF<sub>2</sub> LASER</b> .....	65
<i>Richard Švejkar ; Jan Šulc ; Michal Nemeč ; Helena Jelínková ; Maxim E. Doroshenko ; Sergei H. Batygov ; Vyacheslav V. Osiko</i>	
<b>CRYOGENICALLY COOLED TUNABLE TM, Y:CAF<sub>2</sub> LASER</b> .....	66
<i>Jan Šulc ; Michal Nemeč ; Martin Fibrich ; Helena Jelínková ; Maxim E. Doroshenko ; Vasilii A. Konyushkin ; Andrey N. Nakladov ; Vyacheslav V. Osiko</i>	
<b>HIGH-ENERGY-PULSE OSCILLATION IN 2.25–3.08 μM USING CR:CDSE PUMPED WITH Q-SWITCHED TM:YAG LASER</b> .....	67
<i>Masaki Yunoto ; Norihito Saito ; Satoshi Wada</i>	
<b>HIGH-REPETITION-RATE GAIN-SWITCHED LASERS BASED ON POLYCRYSTALLINE CR<sup>2+</sup>:ZNSE WITH UNDOPED END-CUPS PUMPED AT 1966 NM BY TM<sup>3+</sup>:LU<sub>2</sub>O<sub>3</sub> CERAMIC LASERS</b> .....	68
<i>Oleg Antipov ; Roman Kositsyn ; Stanislav Balabanov ; Sergey Larcin</i>	
<b>MICROCHIP LASER OPERATION OF TM, HO:KYW CRYSTALS WITH DIFFERENT HO CONCENTRATIONS</b> .....	69
<i>Natali Gusakova ; Sergei Kurilchik ; Anatol Yasukevich ; Viktor Kisel ; Vladimir Dashkevich ; Valentin Orlovich ; Anatoli Pavlyuk ; Sergei Vatnik ; Sergei Bagaev ; Nikolay Kuleshov</i>	
<b>HIGH POWER 4TH HARMONIC GENERATION WITH OPTIMIZED ENHANCEMENT CAVITY</b> .....	70
<i>Hiroaki Nakao ; M. Morita ; Y. Kanada ; A. Miyamoto ; T. Tago ; T. Sasa ; M. Sasaura ; Y. Furukawa</i>	
<b>ACTIVE SPECTRAL SHAPING WITH POLARIZATION ENCODING OF CHIRPED PULSES IN TI:SAPPHIRE AMPLIFIERS</b> .....	71
<i>Huabao Cao ; Mikhail Kalashnik ; Karoly Osvay ; Nikita Khodakovskiy ; Roland Nagymihaly ; Vladimir Chyvkov</i>	
<b>HIGH SPECTRAL BRIGHTNESS UV LASER FOR AIRBORNE WIND-LIDAR OBSERVATIONS</b> .....	72
<i>Oliver Lux ; Christian Lemmerz ; Benjamin Witschas ; Uwe Marksteiner ; Engelbert Nagel ; Oliver Reitebuch</i>	
<b>A MULTI-PUMPED CONFIGURATION WITH CONJUGATED DUAL PARABOLIC MIRRORS FOR THIN DISK LASER</b> .....	73
<i>Guangzhi Zhu ; Xiao Zhu ; Hailin Wang ; Yan Huang</i>	
<b>ULTRA LOW-NOISE YTTERBIUM OPTICAL OSCILLATOR FOR NEXT-GENERATION FREE ELECTRON LASERS</b> .....	74
<i>A. Trisorio ; M. Divall ; S. Hunziker ; M. Kaiser ; A. Romann ; C. Vicario ; C. P. Hauri</i>	
<b>LASER-RELATED SPECTROSCOPIC PARAMETERS OF NV COLOUR CENTRES IN DIAMOND</b> .....	75
<i>V. G. Savitski ; E. Fraczek ; M. Dale ; B. G. Breeze ; L. Dziechciarzyk ; P. Diggle ; M. Markham ; A. Bennett ; H. Dhillon ; M. E. Newton ; A. J. Kemp</i>	
<b>WAVELENGTH TUNING IN A DIODE-PUMPED PR<sup>3+</sup>:BA(Y<sub>0.8</sub>LU<sub>0.2</sub>)<sub>2</sub>F<sub>8</sub> LASER</b> .....	76
<i>Alberto Sottile ; Eugenio Damiano ; Mauro Tonelli</i>	
<b>DIGITAL DEGENERATE CAVITY LASER</b> .....	77
<i>Chene Tradonsky ; Ronen Chriki ; Gilad Barach ; Vishwa Pal ; Asher A. Friesem ; Nir Davidson</i>	
<b>DIODE-PUMPED CRYOGENIC YB:KLU(WO<sub>4</sub>)<sub>2</sub> LASER</b> .....	78
<i>Venkatesan Jambunathan ; Petr Navratil ; Samuel Paul David ; Fangxin Yue ; Josep Maria Serres ; Xavier Mateos ; Magdalena Aguiló ; Francesc Diaz ; Uwe Griebner ; Valentin Petrov ; Antonio Lucianetti ; Tomas Mocek</i>	
<b>FEMTOSECOND YB:YAG CERAMIC REGENERATIVE AMPLIFIER</b> .....	79
<i>J. Huynh ; M. Smrž ; T. Miura ; A. Endo ; M. Cech ; T. Mocek</i>	
<b>COMPACT 5 MJ/100 PS@1 KHZ REGENERATIVE AMPLIFIER</b> .....	80
<i>Arsen Davtian ; Alexei Kornev</i>	

<b>DIODE-PUMPED MODE-LOCKED TM:LUAG 2 μM LASER BASED ON GASB-SESAM</b> .....	81
<i>Kejian Yang ; Chao Luan ; Shengzhi Zhao ; Tianli Feng ; Jingliang He ; Thomas Dekorsy ; Guina Mircea ; Lihe Zheng</i>	
<b>WATER-COOLED THIN DISK TI:SAPPHIRE AMPLIFIERS FOR KW AVERAGE POWER</b> .....	82
<i>Roland S. Nagymihaly ; Huabao Cao ; Daniel Papp ; Gergely Hajas ; Mikhail Kalashnikov ; Karoly Osvay ; Vladimir Chvykov</i>	
<b>ND:GGG DISK LASER WITH COHERENT BEAM COMBINING IN TALBOT LASER CAVITY AT MULTI BEAM DIODE PUMPING</b> .....	83
<i>A. M. Bul'Kanov ; D. A. Guryev ; I. A. Ivanov ; D. A. Nikolaev ; V. B. Tsvetkov</i>	
<b>TUNABLE CW ALEXANDRITE LASERS AND FUNDAMENTAL LIMITS OF EFFICIENCY</b> .....	84
<i>William R. Kerridge-Johns ; Michael J. Damzen</i>	
<b>PICOSECOND MICROCHIP LASERS FOR 532 NM AND 671 NM PULSE GENERATION</b> .....	85
<i>Antti Härkönen ; Jari Nikkinen ; Ville-Markus Korpjärvi ; Ilro Leinov ; Mircea Guina</i>	
<b>18-MJ DIODE SIDE PUMPED ER:YAG SLAB LASER @2.94 μM</b> .....	86
<i>Marek Skórczakowski ; Jan Jabczynski ; Waldemar Zendzian ; Adam Rybak</i>	
<b>SESAM-ASSISTED KERR-LENS MODE-LOCKED YBICAF<sub>2</sub> OSCILLATOR PUMPED BY A SINGLE-MODE FIBER-COUPLED LASER DIODE</b> .....	87
<i>Maciej Kowalczyk ; Arkady Major ; Jaroslaw Sotor</i>	
<b>NOVEL END-PUMPING METHOD FOR STABLE AND COMPACT MICROCHIP LASER</b> .....	88
<i>R. Bhandari ; N. Ishigaki ; S. Uno ; T. Hiroki ; J. Saikawa ; K. Tojo ; T. Taira</i>	
<b>PHOTOTHERMAL-INDUCED FREQUENCY STABILIZATION OF ND:YVO<sub>4</sub>/ER-GLASS SOLID STATE MICROCHIP LASER WITH AUXILIARY 1.55 μM SIGNAL</b> .....	89
<i>Grzegorz Dudzik ; Karol Krzempek ; Krzysztof M. Abramski</i>	
<b>DEGENERATED CONFIGURATION OF DISK LASER CAVITY AT MULTI BEAM DIODE PUMPING</b> .....	90
<i>A. M. Bul'Kanov ; D. A. Nikolaev ; A. I. Shamatova ; I. A. Shcherbakov ; V. B. Tsvetkov</i>	
<b>Q-SWITCHED PR:YLF LASER WITH CO:MALO SATURABLE ABSORBER</b> .....	91
<i>Maxim P. Demesh ; Daniel-Timo Marzahl ; Anatol S. Yasukevich ; Viktor E. Kisel ; Nikolai V. Kuleshov ; Günter Huber ; Christian Kränkel</i>	
<b>MULTICOLOR LASERS EMPLOYING BIREFRINGENT FILTERS WITH AN ARBITRARILY ORIENTED OPTICAL AXIS</b> .....	92
<i>Umit Demirbas ; Peter Reiche ; James Fujimoto ; Alfred Leitenstorfer</i>	
<b>FIRST TUNABLE AND MODE-LOCKED LASER ACTION AT CR<sup>4+</sup> AND SC<sup>3+</sup> CO-DOPED FORSTERITE CR, SC:MG<sub>2</sub>SIO<sub>4</sub> CRYSTALS</b> .....	93
<i>V. V. Slavkina ; V. P. Mitrokhin ; K. A. Subbotin ; D. A. Lig ; O. N. Lis ; E. V. Zharikov</i>	
<b>OPTIMISED CONFIGURATION FOR TWO CASCADED DOUBLE-PASS YB:YAG CHIRPED PULSE AMPLIFIER</b> .....	94
<i>Aleksej M. Rodin ; Eimantas Zopelis</i>	
<b>FE<sup>2+</sup>:CD<sub>1-x</sub>MN<sub>x</sub>TE (X = 0.1–0.78) LASER AT 4.95–5.8 μM IN THE TEMPERATURE RANGE 77–240 K</b> .....	95
<i>Helena Jelínková ; Maxim E. Doroshenko ; Michal Jelínek ; Jan Šulc ; David Vyhldal ; Vjatcheslav V. Osiko ; Nazar O. Kovalenko ; Andrey S. Gerasimenko</i>	
<b>FLAT SUPERCONTINUUM GENERATION IN A SILICA PHOTONIC CRYSTAL FIBER BY TRIPLE WAVELENGTH PUMPING</b> .....	96
<i>Weiqing Gao ; Chenquan Ni ; Xiangcai Chen ; Li Chen ; Zhengqiang Wen ; Wei Zhang ; Xiaojie Xue ; Tonglei Cheng ; Takenobu Suzuki ; Yasutake Ohishi</i>	
<b>GENERATION OF NEW COHERENT LIGHT STATES USING III-V SEMICONDUCTOR LASER TECHNOLOGY: VORTEX, CONTINUUM, DUAL FREQUENCY FOR THZ AND INTEGRATION</b> .....	97
<i>A. Garnache ; M. Seghilani ; M. Sellahi ; R. Paquet ; B. Chomet ; M. Myara ; S. Blin ; L. Legratiet ; G. Beaudoin ; I. Sagnes ; P. Lalanne</i>	
<b>INTEGRATION OF HIGH COHERENCE HIGH POWER BROADLY TUNABLE SEMICONDUCTOR LASERS FOR NIR &amp; MIR APPLICATIONS: SINGLE AND DUAL FREQUENCY STATE</b> .....	98
<i>Baptiste Chome ; Laurence Ferrières ; Vincent Lecocq ; Mikhaël Myara ; Grégoire Beaudoin ; Isabelle Sagnes ; Laurent Cerutti ; Stéphane Denet ; Arnaud Garnache</i>	
<b>SEMICONDUCTOR MEMBRANE LASER CONCEPT (MECSEL) APPLICABLE TO VARIOUS MATERIALS TOWARDS NEW EMISSION WAVELENGTHS</b> .....	99
<i>Roman Bek ; Hermann Kahle ; Cherry May Mateo ; Raffael Pecoroni ; Uwe Brauch ; Philipp Tatar-Mathes ; Michael Jetter ; Thomas Graf ; Peter Michler</i>	
<b>DEMONSTRATION OF SPIN INJECTION IN A CW VECSEL AT RT WITH A DYNAMIC AND ACCURATE CONTROL OF ITS POLARIZATION STATE</b> .....	100
<i>Alexandre Joly ; Ghaya Baili ; Mehdi Alouini ; Jean-Marie George ; Isabelle Sagnes ; Daniel Dolfi</i>	
<b>CONTINUOUS-TUNABLE SINGLE-FREQUENCY 2 μM GASB-BASED THIN DEVICE SEMICONDUCTOR DISK LASER</b> .....	101
<i>Steffen Adler ; Peter Holl ; Chiara Lindner ; Elke Diwo-Emmer ; Andreas Bächle ; Rolf Aidam ; Oliver Göhlic ; Wolfgang Bronner ; Marcel Rattunde</i>	
<b>CONTINUOUS-WAVE OPERATION OF BROAD-AREA MID-INFRARED QUANTUM CASCADE LASERS FOR HIGH BRIGHTNESS</b> .....	102
<i>Mykhaylo P. Semtsiv ; W. Ted Masselink</i>	
<b>WAVEGUIDE ENGINEERING FOR LOW DISPERSION MID-INFRARED QUANTUM CASCADE LASERS FREQUENCY COMBS</b> .....	103
<i>Y. Bidaux ; I. Sergachev ; A. Bismuto ; T. Gresch ; R. Maulini ; S. Blaser ; A. Muller ; J. Faist</i>	
<b>DUAL-WAVELENGTH DFB QUANTUM CASCADE LASERS FOR NO AND NO<sub>2</sub> TRACE GAS ANALYSIS</b> .....	104
<i>Filippos Kapsalidis ; Mehran Shahmohammadi ; Martin J. Süess ; Morten Hundt ; Johanna M. Wolf ; Béla Tuzson ; Emilio Gini ; Matthias Beck ; Lukas Emmenegger ; Jérôme Faist</i>	

<b>100 % AMPLITUDE MODULATION OF AN EXTERNAL CAVITY TERAHERTZ QCL USING AN OPTOELECTRONIC CHOPPER BASED ON METAMATERIALS AND GRAPHENE</b> .....	105
<i>S. J. Kindness ; D. S. Jessop ; B. Wei ; R. Wallis ; V. S. Kamboj ; L. Xiao ; Y. Ren ; P. Braeuninger-Weimer ; S. Hofmann ; H. E. Beere ; D. A. Ritchie ; R. Degl'Innocenti</i>	
<b>SUBSTRATE-EMITTING RING INTERBAND CASCADE LASERS</b> .....	106
<i>Martin Holzhauser ; Rolf Szedlak ; Hermann Detz ; Robert Weih ; Sven Höfling ; Werner Schrenk ; Johannes Koeth ; Gottfried Strasser</i>	
<b>AUGER RECOMBINATION IN TYPE I GALNASSB/GASB LASERS AND ITS VARIATION WITH WAVELENGTH IN THE 2–3 <math>\mu</math>M RANGE</b> .....	107
<i>T. Eales ; I. P. Marko ; B. A. Ikyo ; A. R. Adams ; I. Vurgaftman ; S. Arafin ; S. Sprengel ; M. -C. Amann ; J. R. Meyer ; S. J. Sweeney</i>	
<b>THERMALLY INDUCED BIREFRINGENCE TUNING OF 37 GHZ IN VCSELS</b> .....	108
<i>Tobias Pusch ; Eros La Tona ; Markus Lindemann ; Nils C. Gerhardt ; Martin R. Hofmann ; Rainer Michalzik</i>	
<b>TUNABLE POLARIZATION OSCILLATIONS IN RESONANTLY PUMPED SPIN-VCSELS</b> .....	109
<i>Markus Lindemann ; Tobias Pusch ; Rainer Michalzik ; Nils C. Gerhardt ; Martin R. Hofmann</i>	
<b>10-GBPS DIRECT ON-OFF-KEYING MODULATION ACROSS 85-NM CONTINUOUS TUNING RANGE USING TELECOM MEMS-VCSEL</b> .....	110
<i>Sujoy Paul ; Niels Heermeier ; Mohammadreza Malekizandi ; Julijan Cesar ; Mohammad Tanvir Haider ; Christoph Gréus ; Christian Neumeyr ; Franko Küppers</i>	
<b>OPTICALLY CONTROLLED CURRENT CONFINEMENT IN PARALLEL-DRIVEN VCSELS</b> .....	111
<i>Sven Bader ; Philipp Gerlach ; Rainer Michalzik</i>	
<b>MONOLITHIC COWDM TRANSMITTER VIA INTEGRATION OF INJECTION LOCKED SLOTTED LASER WITH ELECTROABSORPTION MODULATOR</b> .....	112
<i>Niall P. Kelly ; Mohamd Dernaika ; Ludovic Caro ; Frank H. Peters</i>	
<b>ULTRALOW PULSE-TO-PULSE TIMING JITTER FOR TELECOMMUNICATION APPLICATIONS BY A MONOLITHIC PASSIVELY MODE-LOCKED MULTI QUANTUM-WELL SEMICONDUCTOR LASER EMITTING AT 1080 NM</b> .....	113
<i>Christoph Weber ; Andreas Klehr ; Andrea Knigge ; Stefan Breuer</i>	
<b>SYNCHRONIZATION OF MUTUALLY COUPLED HIGH-<math>\beta</math> QUANTUM DOT MICROLASERS</b> .....	114
<i>Sören Kreinberg ; Felix Krüger ; Steffen Holzinger ; Elisabeth Schlottmann ; Martin Kamp ; Christian Schneider ; Sven Höfling ; Xavier Porte ; Stephan Reitzenstein</i>	
<b>HIGH-<math>\beta</math> MICROPILLAR LASERS WITH SITE-CONTROLLED QUANTUM DOTS FABRICATED VIA A BURIED STRESSOR APPROACH</b> .....	115
<i>Arsenty Kaganskiy ; Tobias Heuser ; Alexander Schlehahn ; Fabian Gericke ; Xavier Porte ; Tobias Heindel ; Sven Rodt ; André Strittmatter ; Stephan Reitzenstein</i>	
<b>HIGH-PERFORMANCE INAS/GAAS QUANTUM-DOT LASER DIODES MONOLITHICALLY GROWN ON SILICON FOR SILICON PHOTONICS</b> .....	116
<i>Mengya Liao ; Mingchu Tang ; Siming Chen ; Jiang Wu ; Huiyun Liu</i>	
<b>OPTICAL FREQUENCY COMBS IN QUANTUM DOT FABRY-PEROT LASERS: ROLE OF THE SPATIAL HOLE BURNING</b> .....	117
<i>Paolo Bardella ; Lorenzo Luigi Columbo ; Ivo Montrosset ; Mariangela Gioannini</i>	
<b>THERMALLY STABLE AR-IMPLANTATION-INDUCED INTERMIXED QUANTUM DOT LASER DIODE IN HIGH-TEMPERATURE REGION</b> .....	118
<i>A. Matsumoto ; K. Akahane ; S. Matsui ; Y. Akashi ; T. Umezawa ; N. Yamamoto ; Y. Matsushima ; H. Ishikawa ; K. Utaoka</i>	
<b>EXPERIMENTAL DEMONSTRATION OF A FANO LASER BASED ON PHOTONIC CRYSTALS</b> .....	119
<i>Yi Yu ; Elizaveta Semenova ; Kresten Yvind ; Jesper Mork</i>	
<b>REGIMES OF SELF-PULSING IN PHOTONIC CRYSTAL FANO LASERS</b> .....	120
<i>Thorsten S. Rasmussen ; Yi Yu ; Jesper Mork</i>	
<b>FABRICATION AND EXPERIMENTAL DEMONSTRATION OF PHOTONIC CRYSTAL LASER WITH BURIED HETEROSTRUCTURE</b> .....	121
<i>A. Sakanas ; Y. Yu ; E. Semenova ; L. Ottaviano ; H. K. Sahoo ; J. Mork ; K. Yvind</i>	
<b>FLEXIBLE VISIBLE PHOTONIC CRYSTAL LASER</b> .....	122
<i>Jie Zhou ; Taojie Zhou ; Jiagen Li ; Kebo He ; Zhaoyu Zhang</i>	
<b>SUPERHERMAL PHOTON STATISTICS IN COUPLED PHOTONIC CRYSTAL SEMICONDUCTOR NANOLASERS</b> .....	123
<i>J. Javaloyes ; M. Marconi ; A. Levenson ; A. M. Yacomotti</i>	
<b>HYBRID SI-ON-CHIP LASERS WITH NANO STRUCTURES</b> .....	124
<i>Il-Sug Chung ; Gyeong Cheol Park ; Alireza Taghizadeh ; Jesper Mork ; Supanee Larkthanakhachon ; Elizaveta Semenova</i>	
<b>ROOM TEMPERATURE LASING FROM MONOLITHICALLY INTEGRATED GAAS MICRODISKS ON SI</b> .....	125
<i>Stephan Wirths ; Benedikt Mayer ; Heinz Schmid ; Emanuel Lörtzcher ; Marilyne Sousa ; Heike Riel ; Kirsten Moselund</i>	
<b>290 HZ INTRINSIC LINEWIDTH FROM AN INTEGRATED OPTICAL CHIP-BASED WIDELY TUNABLE INP-SI<sub>3</sub>N<sub>4</sub> HYBRID LASER</b> .....	126
<i>Youwen Fan ; Ruud M. Oldenbeuving ; Marcel Hoekman ; Dimitri Geskus ; Ronald Dekker ; René G. Heideman ; Chris G. H. Roeloffzen ; Klaus-J. Boller</i>	
<b>WIDELY TUNABLE FLEXIBLE REGROWTH-FREE SEMICONDUCTOR LASER</b> .....	127
<i>Ludovic Caro ; Niall P. Kelly ; Mohamad Dernaika ; Justin K. Alexander ; Padraic E. Morrissey ; Frank H. Peters</i>	
<b>DFB LASER ARRAYS WITH PRECISE CHANNEL SEPARATION AND HIGH COUPLING COEFFICIENT</b> .....	128
<i>Song Tang ; Lianping Hou ; Xiangfei Chen ; John H. Marsh</i>	
<b>ALGAN NANOWIRE DEEP ULTRAVIOLET LIGHT EMITTING DIODES AND LASERS</b> .....	129
<i>Zetian Mi ; Songrui Zhao ; Xianhe Liu</i>	

<b>GAAS-BASED DISTRIBUTED FEEDBACK LASER AT 780 NM FOR <sup>87</sup>Rb COLD ATOM QUANTUM TECHNOLOGY</b> .....	130
<i>Ying Ding ; Gary Ternernt ; Anwer Saeed ; Craig J. Hamilton ; Nils Hempler ; Graeme P. A. Malcolm ; Gareth T. Maker ; Marc Sorel ; Douglas J. Paul</i>	
<b>LONG-RESONATOR LASER-DIODE BARS FOR EFFICIENT KW EMISSION</b> .....	131
<i>M. M. Karow ; T. Kaul ; S. Knigge ; A. Maaßdorf ; G. Erbert ; S. G. Strobmalder ; P. Crump</i>	
<b>HIGH-POWER 1550 NM TAPERED DBR LASER DIODES FOR LIDAR APPLICATIONS</b> .....	132
<i>Antti T. Aho ; Jukka Viheriälä ; Jaakko Mäkelä ; Heikki Virtanen ; Sanna Ranta ; Mihail Dumitrescu ; Mircea Guina</i>	
<b>PERFORMANCE AND LIFETIME OF HIGH-POWER NARROW-LINEWIDTH 1180 NM GAINNAS DBR-LDS</b> .....	133
<i>Jukka Viheriälä ; Antti T. Aho ; Heikki Virtanen ; Mervi Koskinen ; Mircea Guina</i>	
<b>HIGH-POWER SEMICONDUCTOR DISK LASERS WITH RECORD-SHORT PULSE DURATIONS</b> .....	134
<i>D. Waldburger ; C. G. E. Alfieri ; S. M. Link ; E. Gini ; M. Golling ; U. Keller</i>	
<b>COMMERCIAL MODE-LOCKED VERTICAL-EXTERNAL-CAVITY SURFACE-EMITTING LASERS</b> .....	135
<i>C. Robin Head ; Bartek Bialkowski ; Jipeng Lin ; Walter Lubeigt ; Nils Hempler ; Gareth T. Maker ; Graeme P. A. Malcolm</i>	
<b>ULTRAFAST DYNAMICS OF SEMICONDUCTOR DISK LASERS</b> .....	136
<i>C. G. E. Alfieri ; D. Waldburger ; S. M. Link ; M. Golling ; U. Keller</i>	
<b>HIGH PULSE ENERGY PASSIVE MODE LOCKING OF INVERSE BOW-TIE 975NM LASER DIODE IN EXTERNAL CAVITY</b> .....	137
<i>M. Krakowski ; P. Resneau ; M. Garcia ; E. Vinet ; Y. Robert ; O. Parillaud ; D. L. Boiko</i>	
<b>THZ REPETITION FREQUENCY MODE-LOCKED LASER USING NOVEL SAMPLED GRATINGS</b> .....	138
<i>Lianping Hou ; Song Tang ; John H. Marsh</i>	
<b>ELECTRICAL ADDRESSING AND TEMPORAL TWEEZING OF LOCALIZED PULSES IN PASSIVELY MODE-LOCKED SEMICONDUCTOR LASERS</b> .....	139
<i>P. Camelin ; J. Javaloyes ; M. Marconi ; M. Giudici</i>	
<b>ALL-OPTICAL EXCITABILITY OF AN INHIBITORY NEURON BASED ON TWO-SECTION INAS/INGAAS QUANTUM DOT MODE-LOCKED LASER</b> .....	140
<i>Charis Mesaritakis</i>	
<b>CONTROLLABLE RARE EVENTS IN OPTICALLY-INJECTED SEMICONDUCTOR LASERS</b> .....	141
<i>Kevin Sciüres ; Frédéric Grillot</i>	
<b>SPONTANEOUSLY APPEARING VECTOR VORTEX BEAMS IN VERTICAL-CAVITY SURFACE-EMITTING LASERS WITH FEEDBACK</b> .....	142
<i>J. Jimenez ; Pedro Rodriguez ; T. Guillet ; T. Ackemann</i>	
<b>VCSSEL-BASED OPTICAL FREQUENCY COMBS UNDER PARALLEL, ORTHOGONAL AND COMBINED OPTICAL INJECTION LOCKING: STUDY OF DUAL-POLARIZATION DYNAMICS</b> .....	143
<i>Cristina De Dios ; Ana Quirce ; Estefanía Prior ; Ángel Valle ; Krassimir Panajotov ; Jesús Palaci ; Peter Meissner ; Pablo Acedo</i>	
<b>HIGH-β QUANTUM DOT-MICROLASERS SUBJECT TO TIME-DELAYED OPTICAL FEEDBACK</b> .....	144
<i>Steffen Holzinger ; Xavier Porte ; Benjamin Lingnau ; Kathy Lüdge ; Christian Schneider ; Martin Kamp ; Sven Höfling ; Stephan Reitzenstein</i>	
<b>INVESTIGATIONS ON THE PULSE INSTABILITIES OF TAPERED QUANTUM-DOT LASER</b> .....	145
<i>Paolo Bardella ; Lukas Drzewietzki ; Christoph Weber ; Stefan Breuer</i>	
<b>MINIATURIZED RED-EMITTING HYBRID SEMICONDUCTOR MOPA MODULES WITH SMALL-SIZED FARADAY ISOLATORS</b> .....	146
<i>G. Blume ; J. Pohl ; D. Feise ; P. Ressel ; S. Kreuzmann ; A. Ginolas ; A. Sahn ; C. Kürbis ; J. Hofmann ; B. Eppich ; G. Erbert ; C. Nölleke ; P. Leisching ; K. Paschke</i>	
<b>MICRO-INTEGRATED EXTENDED CAVITY DIODE LASER WITH INTEGRATED OPTICAL AMPLIFIER FOR PRECISION SPECTROSCOPY IN SPACE</b> .....	147
<i>Christian Kürbis ; Ahmad Bawamia ; Mandy Krüger ; Robert Smol ; Andreas Wicht ; Achim Peters ; Günther Tränkle</i>	
<b>DESIGN AND REALIZATION OF A WIDELY TUNABLE SAMPLED-GRATING DISTRIBUTED-BRAGG REFLECTOR (SG DBR) LASER EMITTING AT 976 NM</b> .....	148
<i>Mahmoud Tawfiq ; Hans Wenzel ; Olaf Brox ; Pietro Della Casa ; Andrea Knigge ; Markus Weyers ; Bernd Sumpf ; Günther Tränkle</i>	
<b>INFLUENCE OF LATERAL WAVEGUIDE AND GRATING LAYOUTS ON THE DIFFRACTION EFFICIENCY OF DISTRIBUTED BRAGG REFLECTORS</b> .....	149
<i>André Müller ; Jörg Fricke ; Olaf Brox ; Götz Erbert ; Bernd Sumpf</i>	
<b>DUAL-WAVELENGTH Y-BRANCH DBR-RW DIODE LASER AT 785 NM WITH AN ELECTRICALLY TUNEABLE WAVELENGTH DISTANCE UP TO 2 NM</b> .....	150
<i>Bernd Sumpf ; Julia Kabitzke ; André Müller ; Martin Maiwald ; Jörg Fricke ; Peter Ressel ; Günther Tränkle</i>	
<b>SIMULATION AND EXPERIMENT RESULTS OF HIGH POWER DFB DIODE LASER LINEWIDTH POWER PRODUCT AT 780 NM</b> .....	151
<i>T-P. Nguyen ; H. Wenzel ; A. Wicht ; T. Q. Tien ; G. Tränkle</i>	
<b>PICO- AND NANOSECOND DYNAMICS OF THE LATERAL EMISSION OF BROAD AREA DISTRIBUTED BRAGG REFLECTOR LASERS UNDER HIGH-CURRENT PULSED EXCITATION</b> .....	152
<i>A. Klehr ; A. Liero ; H. Wenzel ; A. Zeghuzi ; J. Fricke ; A. Knigge</i>	
<b>MODULATION CHARACTERISTICS OF AN INTEGRATED THREE-SECTION MASTER OSCILLATOR POWER AMPLIFIER AT 1.5 μM</b> .....	153
<i>M. Vilera ; A. Pérez-Serrano ; M. Faugeton ; M. Krakowski ; F. Van Dijk ; J. M. G. Tijero ; I. Esquivias</i>	
<b>MODELING THREE-SECTION MASTER OSCILLATOR POWER AMPLIFIERS WITH A VOLTAGE DRIVEN TRAVELING WAVE MODEL</b> .....	154
<i>A. Pérez-Serrano ; M. Vilera ; J. M. G. Tijero ; S. Balle ; I. Esquivias</i>	



<b>TIME DEPENDENT LINEWIDTH : BEAT-NOTE DIGITAL ACQUISITION AND NUMERICAL ANALYSIS</b> .....	155
<i>N. Von Bandet ; M. Myara ; B. Chomet ; M. Sellahi ; T. Sonici ; R. Dardaillon ; P. Signoret</i>	
<b>SELF-OPTIMIZING PASSIVELY, ACTIVELY AND HYBRIDLY MODE-LOCKED DIODE LASERS</b> .....	156
<i>Rouven H. Pilny ; Benjamin Döpke ; Carsten Brenner ; Andreas Klehr ; Andrea Knigge ; Günther Tränkle ; Martin R. Hofmann</i>	
<b>NOISE-INDUCED DEATH OF TEMPORAL EXTERNAL CAVITY SOLITONS</b> .....	157
<i>Soizic Terrien ; Sylvain Barbay ; Bernd Krauskopf ; Neil G. R. Broderick</i>	
<b>EFFECT OF THE COUPLING PHASE ON LOCKING OF LONGITUDINALLY COUPLED SEMICONDUCTOR LASERS</b> .....	158
<i>Daan Lenstra</i>	
<b>DISTRIBUTED DELAY DIFFERENTIAL MODEL OF A MULTIMODE SEMICONDUCTOR LASER</b> .....	159
<i>A. G. Vladimirov ; A. Pimenov ; S. Slepneva ; G. Huyet</i>	
<b>BISTABILITY IN OPTICALLY INJECTED TWO-STATE QUANTUM DOT LASERS</b> .....	160
<i>Stefan Meinecke ; Benjamin Lingnau ; Andre Röhm ; Kathy Lüdge</i>	
<b>PREDICTABILITY OF EXTREME INTENSITY PULSES IN OPTICALLY INJECTED SEMICONDUCTOR LASERS</b> .....	161
<i>Nuria Martinez Alvarez ; Cristina Masoller</i>	
<b>RESONANCE AND MULTIPULSE EXCITABILITY</b> .....	162
<i>A. Dolcemascolo ; B. Garbin ; B. Feyce ; S. Barland ; R. Veltz</i>	
<b>MONOLITHICALLY INTEGRATED FOURIER-OPTICAL TRANSVERSE-MODE SELECTOR FOR BROAD AREA LASERS</b> .....	163
<i>Christoph Doering ; Ann-Katrin Kleinschmidt ; Johannes Strassner ; Henning Fouckhardt</i>	
<b>SPATIAL MODE STRUCTURE IN A HALF-DISK CAVITY LASER</b> .....	164
<i>Prokhor A. Alekseev ; Mikhail S. Dunaevskiy ; Andrey M. Monakhov ; Vladislav V. Dudelev ; Grigoriï S. Sokolovskii ; Roland Teissier ; Alexei N. Baranov</i>	
<b>DEVELOPMENTS FOR HIGH BRIGHTNESS GASB BASED DIODE LASERS</b> .....	165
<i>L. Ogradowski ; S. Hilzensauer ; J. Gilly ; M. Fatscher ; P. Friedmann ; M. T. Kelemen</i>	
<b>INTERBAND CASCADE LASERS ON GASB SUBSTRATES EMITTING BEYOND 5.6µM</b> .....	166
<i>Anne Schade ; Sven Höfling</i>	
<b>DEVELOPMENT OF A COMPACT MODE-LOCKED ECDL FOR PRECISION FREQUENCY COMPARISON EXPERIMENTS AT 780 NM</b> .....	167
<i>Heike Christopher ; Evgeny Kovalchuk ; Hans Wenzel ; Frank Bugge ; Markus Weyers ; Götz Erbert ; Andreas Wicht ; Achim Peters ; Günther Tränkle</i>	
<b>HIGH POWER BROADBAND SUPERLUMINESCENT DIODE FOR COMPACT GAS SENSOR</b> .....	168
<i>Nouman Zia ; Jukka Viheriälä ; Riku Koskinen ; Antti Aho ; Soile Suomalainen ; Mircea Guina</i>	
<b>COMPARISON OF PASSIVE MODE-LOCKED LASER DIODES WITH COLLIDING AND ANTI-COLLIDING DESIGNS CONTAINING A DQW WITH A BROAD GAIN SPECTRUM</b> .....	169
<i>Thomas Prziwarka ; Andreas Klehr ; Hans Wenzel ; Jörg Fricke ; Andrea Knigge ; Günther Tränkle</i>	
<b>MODE-LOCKED RED-EMITTING VCSELS</b> .....	170
<i>Roman Bek ; Hermann Kahle ; Thomas Schwarzböck ; Michael Jetter ; Peter Michler</i>	
<b>REPETITION RATE LINEWIDTH REDUCTION TO 50 HZ OF A PASSIVELY MODE-LOCKED QUANTUM DOT LASER SUBJECT TO OPTICAL FEEDBACK BY TWO LONG EXTERNAL CAVITIES</b> .....	171
<i>Oleg Nikiforov ; Sebastian Stutz ; Lukas Drzewietzki ; Stefan Breuer</i>	
<b>TOWARDS INP-BASED QD-VCSELS EMITTING AT 633 NM</b> .....	172
<i>Mona Stadler ; Patrick Pietrantuono ; Brigitte Kassner ; Roman Bek ; Michael Jetter ; Peter Michler</i>	
<b>EFFICIENT EXPERIMENTAL ANALYSIS OF INTERNAL TEMPERATURES IN VCSELS</b> .....	173
<i>Markus Daubenschütz ; Rainer Michalzik</i>	
<b>DISCRETE MODE LASER DIODES EMITTING SINGLE WAVELENGTH MODE AT <math>\lambda</math>-657 AND 689 NM FOR OPTICAL ATOMIC CLOCK APPLICATIONS</b> .....	174
<i>Richard Phelan ; Michael Gleeson ; John O'Carroll ; Diarmuid Byrne ; Lina Maigyte ; Philip Long ; Robert Lennox ; Kevin Carney ; Brian Kelly ; Jim Somers</i>	
<b>OFF-RESONANT MAGNETIZATION DYNAMICS IN FERROMAGNETIC THIN FILMS INITIATED BY ULTRASTRONG THZ FIELD</b> .....	175
<i>Mostafa Shalaby ; Carlo Vicario ; Andreas Dönges ; Karel Carva ; Peter M. Oppeneer ; Ulrich Nowa ; Christoph P. Hauri</i>	
<b>SUBCYCLE CONTROL OF OPTICAL RESPONSE BY USING A TERAHERTZ EXCITONIC DRESSED STATE</b> .....	176
<i>K. Uchida ; T. Otake ; T. Mochizuki ; C. Kim ; M. Yoshita ; H. Akiyama ; L. N. Pfeiffer ; K. W. West ; K. Tanaka ; H. Hirori</i>	
<b>SUBCYCLE MULTI-TERAHERTZ QUANTUM ELECTRODYNAMICS</b> .....	177
<i>Denis V. Seletskiy ; Claudius Riek ; Philipp Sulzer ; Alfred Leitenstorfer</i>	
<b>THZ-DRIVEN ELECTRON STREAK CAMERA BASED ON A MULTILAYER STRUCTURE</b> .....	178
<i>Dongfang Zhang ; Arya Fallahi ; Xiaojun Wu ; Moein Fakhari ; Huseyin Cankaya ; Anne-Laure Calendron ; Chun Zhou ; Wenqian Ronny Huang ; Daniel Haynes ; Francois Lemery ; Frederike Ahr ; Wenchao Qiao ; Nicholas H. Matlis ; Franz X. Kärtner</i>	
<b>HIGHLY VERSATILE NARROWBAND TERAHERTZ SOURCE PROVIDING EXTREME FIELD STRENGTH</b> .....	179
<i>C. Vicario ; M. Shalaby ; A. V. Ovchinnikov ; O. V. Chefonov ; C. P. Hauri</i>	
<b>NARROWBAND THZ GENERATION VIA CHIRP-AND-DELAY IN PPLN</b> .....	180
<i>Frederike Ahr ; Spencer W. Jolly ; Nicliolas H. Matlis ; Sergio Carbajo ; Koustuban Ravi ; Tobias Kroh ; Jan Schulte ; Damian N. Schimpf ; Andreas R. Maier ; Franz X. Kärtner</i>	
<b>PROSPECTS OF SEMICONDUCTOR TERAHERTZ PULSE SOURCES</b> .....	181
<i>Gyula Polónyi ; Balázs Monoszlai ; Mátyás I. Mechler ; János Hebling ; József A. Fülöp</i>	

<b>TUNABLE CW THZ GENERATION FROM AN ALL-QUANTUM-DOT-BASED SYSTEM</b> .....	182
<i>Ksenia A. Fedorova ; Andrei Gorodetsky ; Edik U. Rafailov</i>	
<b>COHERENT FIELD TRANSIENTS BELOW 15 THZ BY DIFFERENCE FREQUENCY GENERATION IN 4H-SIC</b> .....	183
<i>Marco P. Fischer ; Johannes Bühler ; Takayuki Kurihara ; Gabriel Fitzky ; Alfred Leitnerstorfer ; Daniele Brida</i>	
<b>CONTROL OF THZ PULSE EMISSION IN LASER PLASMA INTERACTION BY PLASMA SHAPING</b> .....	184
<i>S. Mondal ; Q. Wei ; S. Kahaly ; H. A. Hafez ; F. Sylla ; X. Ropagnol ; M. A. Fareed ; S. Sun ; T. Ozaki</i>	
<b>ACQUISITION OF SPECTRALLY RESOLVED MULTIMODE FAR-FIELDS FROM TERAHERTZ QUANTUM CASCADE LASERS</b> .....	185
<i>Sebastian Schönhuber ; Martin Brandstetter ; Michael Krall ; Martin A. Kainz ; Hermann Detz ; Tobias Zederbauer ; Aaron M. Andrews ; Gottfried Strasser ; Karl Unterrainer</i>	
<b>TERAHERTZ QUANTUM CASCADE LASERS FREQUENCY COMBS: WIDE BANDWIDTH OPERATION AND DUAL-COMB ON A CHIP</b> .....	186
<i>G. Scalari ; M. Rösch ; M. Beck ; D. Bachmann ; K. Unterrainer ; J. Faist</i>	
<b>PROBING AND CONTROLLING THE COMB FEATURES OF A THZ QCL</b> .....	187
<i>Luigi Consolino ; Annamaria Campa ; Francesco Cappelli ; Pablo Cancio Pastor ; Saverio Bartalini ; Giacomo Scalari ; Markus Rösch ; Mattias Beck ; Jérôme Faist ; Paolo De Natale</i>	
<b>LOW EFFECTIVE ELECTRON MASS IN GaAs/InAlAs FOR HIGH POWER TERAHERTZ QUANTUM CASCADE LASERS</b> .....	188
<i>M. A. Kainz ; C. Deutsch ; M. Krall ; M. Brandstetter ; D. Bachmann ; S. Schönhuber ; H. Detz ; D. C. Macfarland ; A. M. Andrews ; G. Strasser ; K. Unterrainer</i>	
<b>ON FREQUENCY COMB FORMATION IN TERAHERTZ QUANTUM CASCADE LASERS</b> .....	189
<i>Petar Tzenov ; Christian Jirawschek</i>	
<b>NONLINEAR OPTICAL DETECTION OF TERAHERTZ-WAVE RADIATION FROM RESONANT-TUNNELING-DIODE OSCILLATORS</b> .....	190
<i>Yuma Takida ; Kouji Nawata ; Safumi Suzuki ; Masahiro Asada ; Hiroaki Minamide</i>	
<b>SINGLE PIXEL THZ IMAGING USING NEAR FIELD PHOTOMODULATION</b> .....	191
<i>Euan Hendry</i>	
<b>TERAHERTZ S-SNOM WITH <math>&gt; \lambda/1000</math> RESOLUTION BASED ON SELF-MIXING IN QUANTUM CASCADE LASERS</b> .....	192
<i>Binbin Wei ; Robert Wallis ; Stephen Kindness ; Oleg Mitrofanov ; Harvey E. Beere ; David A. Ritchie ; Riccardo Degl'Innocenti</i>	
<b>OBSERVATION OF EVANESCENT-WAVE FILTERING IN SUPER-RESOLVED THZ IMAGES</b> .....	193
<i>M. Flammini ; E. Pontecorvo ; V. Giliberti ; M. Ortolani ; E. Delre</i>	
<b>TOWARDS COMPACT EFFICIENT FS-LASER-INDUCED THZ SOURCES FROM MICROPLASMAS</b> .....	194
<i>I. Thiele ; R. Nuter ; P. González De Alaiza Martínez ; S. Skupin</i>	
<b>BIAS-DEPENDENT CARRIER DYNAMICS STUDIED BY LASER TERAHERTZ EMISSION MICROSCOPY WITH NANOMETER RESOLUTION</b> .....	195
<i>Pernille Klarskov ; Daniel M. Mittleman</i>	
<b>BROADBAND CW NONLINEAR GENERATION FOR METROLOGICAL GRADE TERAHERTZ SPECTROSCOPY</b> .....	196
<i>Michele De Regis ; Luigi Consolino ; Saverio Bartalini ; Marco Ravaro ; Paolo De Natale</i>	
<b>THZ ABSORPTION MEASUREMENT AND CALCULATION OF ORGANIC THERMALLY ACTIVATED DELAYED FLUORESCENCE MATERIALS</b> .....	197
<i>Harunobu Takeda ; Cong Chen ; Takeshi Komino ; Hiroaki Yoshioka ; Yuji Oki ; Chihaya Adachi</i>	
<b>TEMPERATURE DEPENDENCE OF FREE CARRIERS AND LATTICE VIBRATIONS IN NOVEL NONLINEAR OPTICAL CRYSTALS IN THE THZ FREQUENCY REGIME</b> .....	198
<i>Qijun Liang ; Shangepeng Wang ; Xutang Tao ; Thomas Dekorsy</i>	
<b>THICK THZ METAMATERIALS FABRICATED BY 3D PRINTER FOR THZ HIGH-PASS FILTER APPLICATION</b> .....	199
<i>Kuniaki Konishi ; Hiroyuki Yasukochi ; Kentaro Soeda ; Yuma Takano ; Hiroaki Niwa ; Junji Yumoto ; Makoto Kuwata-Gonokami</i>	
<b>DIFFRACTION ENHANCED TRANSPARENCY (DET) USING FREQUENCY DETUNED AND DISPLACED RESONANT RODS</b> .....	200
<i>Arkabrata Bhattacharya ; Alexei Halpin ; Niels Van Hoof ; Jaime Gómez Rivas</i>	
<b>ORBITAL ANGULAR MOMENTUM MODES BY TWISTING OF A HOLLOW CORE ANTIRESONANT FIBER</b> .....	201
<i>Alessio Stefani ; Boris T. Kuhlmeiy ; Simon Fleming</i>	
<b>HIGH POWER AND HIGH BANDWIDTH PHOTOCONDUCTIVE TERAHERTZ EMITTERS AND DETECTORS MADE OF IRON DOPED INGaAs</b> .....	202
<i>Björn Globisch ; Robert B. Kohlhaas ; Joachim Gieseke ; Martin Schell ; Mykhaylo P. Sentsiv ; W. Ted Masselink</i>	
<b>GENERATION OF ELLIPTICAL TERAHERTZ RADIATION IN TWO-COLOR LASER FIELD: FROM SINGLE ATOM TO EXTENDED GAS RESPONSE</b> .....	203
<i>Sergey Stremoukhov ; Anatoli Andreev</i>	
<b>ELECTRIC FIELD MEASUREMENT OF LASER-PLASMA-DRIVEN THZ SURFACE WAVE ON METAL WIRES</b> .....	204
<i>Tokinori Terao ; Shigeki Tokita ; Kensuke Teramoto ; Shunsuke Inoue ; Ryo Yasuhara ; Takeshi Nagashima ; Masaki Hashida ; Shuji Sakabe ; Junji Kawanamka ; Noriaki Miyanaga</i>	
<b>OBSERVATION OF FARADAY ROTATION INDUCED IN TGG BY STRONG THZ SURFACE WAVES PROPAGATING ALONG A WIRE</b> .....	205
<i>Shigeki Tokita ; Kensuke Teramoto ; Tokinori Terao ; Shunsuke Inoue ; Ryo Yasuhara ; Takeshi Nagashima ; Junji Kawanamka ; Noriaki Miyanaga ; Masaki Hashida ; Shuji Sakabe</i>	

<b>SINGLE PIXEL DETECTION TOMOGRAPHIC TERAHERTZ IMAGING</b> .....	206
<i>Till Mohr ; Wolfgang Elsäber</i>	
<b>ROOM TEMPERATURE TUNEABLE THZ GENERATION BASED ON 2ND ORDER NON-LINEAR OPTICAL EFFECTS IN GAAS/ALGAAS MULTI-QUANTUM WELL EXCITONS</b> .....	207
<i>A. N. Majeed ; P. Ivanov ; B. J. Stevens ; E. Clarke ; D. T. D. Childs ; O. Kojima ; R. A. Hogg</i>	
<b>INVERSE BANDSTRUCTURE ENGINEERING OF ALTERNATIVE BARRIER MATERIALS FOR INGAAS-BASED TERAHERTZ QUANTUM CASCADE LASERS</b> .....	208
<i>M. Krall ; B. Limbacher ; M. A. Kainz ; M. Brandstetter ; C. Deutsch ; D. C. Macfarland ; T. Zederbauer ; H. Detz ; A. M. Andrews ; W. Schrenk ; G. Strasser ; K. Unterrainer</i>	
<b>TERAHERTZ CHARACTERIZATIONS OF GASES BY PHASE DELAY</b> .....	209
<i>Bark Hyeon Sang ; Tae-In Jeon</i>	
<b>COMPARATIVE STUDY IN TERAHERTZ MODULATION ENHANCEMENT BASED ON HYBRID DEVICES OF PEROVSKITE AND SILICON</b> .....	210
<i>Kyu-Sup Lee ; Rira Rang ; Byungwoo Son ; Dong-Yu Kim ; Nan Ei Yu ; Do-Kyeong Ko</i>	
<b>COMPLEMENTARY TANDEM CONFIGURATION OF NONLINEAR ORGANIC CRYSTALS FOR EFFICIENT TERAHERTZ SPECTRAL FILLING</b> .....	211
<i>Bong Joo Kang ; Seung-Heon Lee ; Won Tae Kim ; Seung-Chul Lee ; Kang Hee Lee ; Mojca Jazbinsek ; O-Pil Kwon ; Fabian Rotermund</i>	
<b>COMPACT OPTOELECTRONIC CONTINUOUS WAVE TERAHERTZ SPECTROSCOPY SYSTEM (230–400 GHZ) FOR PAPER SORTING AND CHARACTERIZATION</b> .....	212
<i>Beshar Khani ; Yinghui Hu ; Vitaly Rymanov ; Carsten Brenner ; Martin Hofmann ; Andreas Stöhr</i>	
<b>TAILORING RISKEN-NUMMEDAL-GRAHAM-HAKEN INSTABILITY IN QUANTUM CASCADE LASERS</b> .....	213
<i>A. A. Antonov ; D. I. Kuritsyn ; A. Gajic ; E. E. Orlova ; J. Radovanovic ; V. V. Vaks ; D. L. Boiko</i>	
<b>NEAR-FIELD MICROSCOPY OF ELECTROMAGNETICALLY INDUCED TRANSPARENCY IN TERAHERTZ DOLMENS</b> .....	214
<i>Alexei Halpin ; Niels Van Hoof ; Arkabrata Bhattacharya ; Christiaan Mennes ; Jaime Gómez Rivas</i>	
<b>OPTICAL GENERATION OF TERAHERTZ PULSES WITH STRONG DC PRECURSORS</b> .....	215
<i>M. I. Bakunov ; A. V. Maslov ; M. V. Tsarev</i>	
<b>BISTABLE TRANSMISSION CONTROL OF TERAHERTZ ELECTROMAGNETIC WAVES WITH GRAPHENE</b> .....	216
<i>K. J. Ahn ; F. Rotermund</i>	
<b>COMPACT CW THZ SPECTROSCOPY SYSTEM AND ITS APPLICATION IN WATER ABSORPTION MEASUREMENTS</b> .....	217
<i>Yinghui Hu ; Beshar Khani ; Carsten Brenner ; Vitaly Rymanov ; Andreas Stöhr ; Martin Hofmann</i>	
<b>COINCIDENCE DETECTION OF SPATIALLY CORRELATED PHOTON PAIRS WITH A NOVEL TYPE OF MONOLITHIC TIME-RESOLVING DETECTOR ARRAY</b> .....	218
<i>Manuel Untermährer ; Bänz Bessire ; Leonardo Gasparini ; David Stoppa ; André Stefanov</i>	
<b>INFLUENCE OF FIBRE HOMOGENEITY ON FOUR WAVE MIXING PAIR GENERATION</b> .....	219
<i>T. Harlé ; M. Barbier ; M. Cordier ; A. Orioux ; E. Diamanti ; I. Zaquine ; Ph. Delaye</i>	
<b>OPTICAL PARAMETRIC GENERATOR BASED ON ORIENTATION-PATTERNED GALLIUM PHOSPHIDE</b> .....	220
<i>Hanyu Ye ; S. Chaitanya Kumar ; Junxiong Wei ; P. G. Schunemann ; M. Ebrahim-Zadeh</i>	
<b>A COMPLEX NETWORK OF 1600 HOLOGRAPHICALLY COUPLED OPTO-ELECTRONIC OSCILLATORS: NETWORK DYNAMICS AND UTILISATION FOR RESERVOIR COMPUTING</b> .....	221
<i>Daniel Brunner ; Maxime Jacquot ; Laurent Larger ; Ingo Fischer</i>	
<b>IMPROVING DETECTION IN OPTICAL COMMUNICATIONS USING ALL-OPTICAL RESERVOIR COMPUTING</b> .....	222
<i>Apostolos Argyris ; Julián Bueno ; Miguel C. Soriano ; Inga Fischerv</i>	
<b>RANDOM BIT GENERATION THROUGH POLARIZATION CHAOS IN NONLINEAR OPTICAL FIBERS</b> .....	223
<i>Jacopo Morosi ; Massimiliano Guasoni ; Akram Akrouf ; Julien Fatome</i>	
<b>PULSED QUANTUM FREQUENCY COMBS FROM AN ACTIVELY MODE-LOCKED INTRA-CAVITY GENERATION SCHEME</b> .....	224
<i>Piotr Roztocki ; Michael Kues ; Christian Reimer ; Benjamin Wetzel ; Brent E. Little ; Sai T. Chu ; David J. Moss ; Roberto Morandotti</i>	
<b>SLOW-LIGHT MICROCAVITIES</b> .....	225
<i>Vincent Huet ; Alphonse Rasoloniaina ; Pierre Guillemé ; Philippe Rochard ; Patrice Féron ; Michel Mortier ; Ariel Levenson ; Kamel Bencheikh ; Alejandro Yacomotti ; Yannick Dumeige</i>	
<b>TYPE II MICROCOMB GENERATION IN A FILTER-DRIVEN FOUR WAVE MIXING LASER</b> .....	226
<i>Andrew Cooper ; Hualong Bao ; Sai T. Chu ; Dave J. Moss ; Roberto Morandotti ; Brent E. Little ; Marco Peccianti ; Alessia Pasquazi</i>	
<b>OPTICALLY REPLENISHING COHERENT ACOUSTIC PHONONS IN PHOTONIC CIRCUITS</b> .....	227
<i>M. Merklein ; B. Stiller ; C. Wolff ; K. Vu ; S. J. Madden ; B. J. Eggleton</i>	
<b>KERR SOLITON COMBS WITH REGULAR MULTIFREQUENCY DIODE LASERS</b> .....	228
<i>N. G. Pavlov ; G. Lihachev ; S. Koptyaev ; A. S. Voloshin ; A. D. Ostapchenko ; M. L. Gorodetsky</i>	
<b>OPTICAL PARAMETRIC OSCILLATORS: NEW HORIZONS</b> .....	229
<i>Majid Ebrahim-Zadeh</i>	
<b>ELECTRONICALLY TUNABLE DUAL-COLOR ALL-FIBER OPTICAL PARAMETRIC OSCILLATOR</b> .....	230
<i>Tim Hellwig ; Maximilian Brinkmann ; Simon Spelthann ; Carsten Fallnich</i>	
<b>GENERATION OF WIDELY-TUNABLE NARROWBAND INFRARED RADIATION BY PPRKTP MIRRORLESS OPO AND BROADBAND CHIRPED-PULSE OPA</b> .....	231
<i>Anne-Lise Viotti ; Andrius Zukauskas ; Carlota Canalias ; Valdas Pasiskevicius</i>	

<b>MIRRORLESS OPTICAL PARAMETRIC OSCILLATOR PUMPED BY NANOSECOND PULSES</b> .....	232
<i>Charlotte Liljestrand ; Andrius Zakauskas ; Valdas Pasiskevicius ; Carlota Canallas</i>	
<b>SUPERRESONANT PARAMETRIC GENERATION IN NONLINEAR PHOTONIC CRYSTALS</b> .....	233
<i>Ottavia Jedrkiewicz ; Alessandra Gatti ; Enrico Brambilla ; Gintaras Tamošauskas ; Paolo Di Trapani ; Katia Gallo</i>	
<b>UPCONVERSION BASED MIR HYPERSPECTRAL IMAGING</b> .....	234
<i>Safer Junaid ; Peter Tidemand-Lichtenberg ; Christian Pedersen</i>	
<b>DEVELOPMENT OF MULTIPLE GAAS PLATE-STACKED QUASI-PHASE-MATCHING MID-INFRARED WAVELENGTH-CONVERSION DEVICES BY USE OF ROOM-TEMPERATURE BONDING</b> .....	235
<i>Hiroki Atarashi ; Terumitsu Kubota ; Ichiro Shoji</i>	
<b>HIGH SENSITIVITY MID-INFRARED DETECTION AT ROOM TEMPERATURE BY UPCONVERSION IN ORIENTATION-PATTERNED GAAS</b> .....	236
<i>Romain Demur ; Arnaud Grisard ; Eric Lallier ; Loïc Morvan ; Nicolas Treps ; Claude Fabre</i>	
<b>SENSITIVE INFRARED DETECTION THROUGH EFFICIENT PULSED UPCONVERSION FOR REMOTE SENSING APPLICATIONS</b> .....	237
<i>Sebastian Wolf ; Tobias Trendle ; Jens Kiessling ; Frank Kühnemann</i>	
<b>MID-IR SUPERCONTINUUM GENERATION VIA AMPLIFIED PICOSECOND PULSES IN A MULTIMATERIAL ASSE/ASS STEP-INDEX FIBER</b> .....	238
<i>Louis-Rafaël Robichaud ; Jean-Christophe Gauthier ; Vincent Fortin ; Louis-Philippe Pleau ; Stéphane Châtigny ; Réal Vallée ; Martin Bernier</i>	
<b>A FLEXIBLE, NARROWBAND AND BROADLY TUNABLE MID-IR LIGHT SOURCE BASED ON SHAPED SUB-10 FS PULSES</b> .....	239
<i>L. Brückner ; M. Motzkus</i>	
<b>100 W-LEVEL PEAK-POWER LASER SYSTEM TUNABLE FROM 8 TO 10 <math>\mu</math>M</b> .....	240
<i>François Guty ; Arnaud Grisard ; Christian Larat ; Dominique Papillon ; Muriel Schwarz ; Bruno Gérard ; Ralf Ostendorf ; Marcel Rattunde ; Joachim Wagner ; Eric Lallier</i>	
<b>DISPERSION ENGINEERED AIR-CLAD SIGE WAVEGUIDES WITH LOW PROPAGATION LOSS IN THE MID-INFRARED</b> .....	241
<i>Milan Sinobad ; Pan Ma ; Barry Luther-Davies ; David Allieux ; Regis Orobtchouk ; David. J. Moss ; Stephen Madden ; Salim Boutami ; Jean-Marc Fedeli ; Christelle Monat ; Christian Grillet</i>	
<b>MINIATURIZED INTRA-CAVITY IMAGE UP-CONVERSION SYSTEM BASED IN A 1342 NM YVO<sub>4</sub>:ND<sup>3+</sup> LASER USING TYPE II PHASE MATCHING IN A BULK KTP CRYSTAL COMBINED WITH A POLARIZING BEAM SPLITTER</b> .....	242
<i>Juan Capmany ; Adrián J. Torregrosa ; Haroldo Maestre ; María L. Rico</i>	
<b>SINGLE-LONGITUDINAL-MODE DIAMOND RAMAN LASERS IN THE NEAR-INFRARED SPECTRAL REGION</b> .....	243
<i>Oliver Lux ; Soumya Sarang ; Ondrej Kitzler ; David J. Spence ; Robert J. Williams ; Richard P. Mildren</i>	
<b>PULSE-TO-PULSE WAVELENGTH SWITCHABLE FIBER LASER FOR MULTI-COLOR TWO-PHOTON EXCITATION FLUORESCENCE (TPEF) MICROSCOPY</b> .....	244
<i>Mathias Eibl ; Sebastian Karpf ; Hubertus Hakert ; Daniel Weng ; Torben Blömker ; Robert Huber</i>	
<b>PHOTONIC TIME STRETCH FOR BROADBAND STIMULATED RAMAN SCATTERING</b> .....	245
<i>Francesco Saltarelli ; Vikas Kumar ; Daniele Viola ; Francesco Crisafi ; Fabrizio Preda ; Giulio Cerullo ; Dario Polli</i>	
<b>MULTIMODAL NONLINEAR MICROSCOPE BY A COMPACT FIBER-LASER SYSTEM</b> .....	246
<i>Francesco Crisafi ; Vikas Kumar ; Antonio Perri ; Daniele Viola ; Fabrizio Preda ; Marco Marangoni ; Giulio Cerullo ; Dario Polli</i>	
<b>MOLECULAR SYMMETRIES BY COHERENT RAMAN SCATTERING</b> .....	247
<i>Carsten Cleff ; Hervé Rigneault ; Sophie Brasselet ; Julien Duboisset</i>	
<b>IMPROVED PHASE RETRIEVAL FOR DISPERSION SCAN</b> .....	248
<i>Esmerando Escoto ; Ayhan Tajalli ; Janne Hyyti ; Tamas Nagy ; Günter Steinmeyer</i>	
<b>MAPPING OF SURFACE FIELD VIA NONLINEAR OPTICAL PUMP RECTIFICATION EMISSION</b> .....	249
<i>Luke Peters ; Jacob Tunesi ; Alessia Pasquazi ; Marco Peccianti</i>	
<b>GENERATION OF MULTIPLE VUV DISPERSIVE WAVES USING A TAPERED GAS-FILLED HOLLOW-CORE ANTI-RESONANT FIBER</b> .....	250
<i>Md. Selim Habib ; Christos Markos ; Ole Bang ; Morten Bache</i>	
<b>TEMPERATURE-BASED WAVELENGTH TUNING OF NON-SOLITONIC RADIATION IN LIQUID-CORE FIBERS</b> .....	251
<i>Mario Chemnitz ; Christian Gaida ; Martin Gebhardt ; Fabian Stutzki ; Jens Limpert ; Markus Schmidt</i>	
<b>ELECTRO-OPTO-MECHANICAL OSCILLATOR IN STANDARD FIBER</b> .....	252
<i>Yosef London ; Hillel Hagai Diamandi ; Avi Zadok</i>	
<b>HIGH POWER, EQUALIZED, CONTINUOUS-WAVE SUPERCONTINUUM GENERATION USING CASCADED RAMAN FIBER AMPLIFIERS</b> .....	253
<i>Vishal Choudhury ; S. Arun ; Roopa Prakash ; V. R. Supradeepa</i>	
<b>MODULATIONAL INSTABILITIES IN THE WEAK NORMAL DISPERSION REGION OF UNIFORM FIBER RING CAVITIES</b> .....	254
<i>Florent Bessin ; François Copie ; Matteo Conforti ; Alexandre Kudlinski ; Arnaud Mussot</i>	
<b>MULTIPLE SOLITON COMPRESSION STAGES IN MID-IR GAS-FILLED HOLLOW-CORE FIBERS</b> .....	255
<i>Md. Selim Habib ; Christos Markos ; Ole Bang ; Morten Bache</i>	
<b>NEW TRENDS IN NONLINEAR GUIDED WAVE OPTICS</b> .....	256
<i>John M. Dudley</i>	

<b>ULTRAFAST, ALL-OPTICAL PHASE TUNING BETWEEN TRANSVERSE FIBER MODES FOR ALL-OPTICAL SWITCHING</b> .....	257
<i>Martin Schnack ; Tim Hellwig ; Carsten Fallnich</i>	
<b>NONLINEAR SPATIAL SELF-CLEANING IN MULTIMODE AMPLIFYING FIBER AND FIBER LASER CAVITY</b> .....	258
<i>Romain Guénard ; Katarzyna Krupa ; Richard Dupiol ; Marc Fabert ; Abdelkrim Bendahmane ; Vincent Kermene ; Agnès Desfarges-Berthelemy ; Alessandro Tonello ; Jean-Louis Auguste ; Alain Barthelemy ; Guy Millot ; Stefan Wabnitz ; Vincent Couderc</i>	
<b>CASCADED INTERMODAL FOUR-WAVE MIXING IN A FEW-MODE FIBER</b> .....	259
<i>Richard Dupiol ; Abdelkrim Bendahmane ; Katarzyna Krupa ; Alessandro Tonello ; Marc Fabert ; Bertrand Kibler ; Thibaut Sylvestre ; Alain Barthelemy ; Vincent Couderc ; Stefan Wabnitz ; Guy Millot</i>	
<b>ENHANCED OPTICAL NONLINEARITIES IN 2D-3D HETEROMATERIALS</b> .....	260
<i>Nicolae C. Panoiu ; Jian Wei You</i>	
<b>HYBRID INTEGRATION OF TWO-DIMENSIONAL MOSE<sub>2</sub> ON A SILICON WAVEGUIDE FOR SECOND-ORDER NONLINEAR OPTICS</b> .....	261
<i>Haitao Chen ; Vincent Corboliou ; Alexander S. Solntsev ; Duk-Yong Choi ; Maria A. Vincenti ; Domenico De Ceglia ; Costantino De Angelis ; Yuerui Lu ; Dragomir Neshev</i>	
<b>OPTICAL PARAMETRIC AMPLIFICATION IN A RANDOM MEDIUM: BBO NANOPOWDER</b> .....	262
<i>H. T. M. C. M. Baltar ; S. Carreña ; C. Manzoni ; L. J. Q. Maia ; A. M. De Paula ; C. B. De Araújo ; E. L. Falcão-Filho</i>	
<b>INTENSITY TRAPPING OF TEMPORAL CAVITY SOLITONS</b> .....	263
<i>Y. Wang ; B. Garbin ; G. -L. Oppo ; S. Coen ; M. Erkintalo ; S. G. Murdoch</i>	
<b>NONLINEAR ANISOTROPIC METAMATERIALS</b> .....	264
<i>Anatoly V. Zayats</i>	
<b>OVERCOMING MATERIAL LIMITATIONS OF NONLINEAR DYNAMICS USING METAMATERIAL RESONANCES</b> .....	265
<i>Luke H. Nicholls ; Francisco J. Rodríguez-Fortuño ; Mazhar E. Nasir ; Nicolas Olivier ; Gregory A. Wurtz ; Anatoly V. Zayats</i>	
<b>NONLINEAR MIRROR WITH ALL-DIELECTRIC METASURFACE</b> .....	266
<i>Lei Wang ; Lei Xu ; Sergey S. Kruk ; Daria A. Smirnova ; Dragomir Neshev ; Yuri Kivshar</i>	
<b>NONLINEAR PLASMONIC SENSING WITH NANOGRAPHENE</b> .....	267
<i>Renwen Yu ; Joel D. Cox ; F. Javier García De Abajo</i>	
<b>POLARIZATION-RESOLVED SECOND HARMONIC GENERATION MEASUREMENTS IN ALGAAS MONOLITHIC NANOANTENNAS</b> .....	268
<i>L. Carletti ; L. Ghirardini ; V. Gili ; G. Pellegrini ; L. Duò ; M. Finazzi ; D. Rocco ; A. Locatelli ; C. De Angelis ; I. Favero ; M. Ravaro ; G. Leo ; A. Lemaître ; M. Celebrano</i>	
<b>BRILLOUIN LASING IN COUPLED SILICA TOROID MICROCAVITIES</b> .....	269
<i>Yoshihiro Honda ; Wataru Yoshiki ; Tomohiro Tetsumoto ; Shun Fujii ; Kentaro Furusawa ; Norihiko Sekine ; Takasumi Tanabe</i>	
<b>BRILLOUIN LASING IN A HYBRID SILICON CHIP</b> .....	270
<i>Blair Morrison ; Alvaro Casas-Bedoya ; Guanghui Ren ; Khu Vu ; Yang Liu ; Atiyeh Zarifi ; Thach Nguyen ; Duk-Yong Choi ; David Marpaung ; Steve Madden ; Arnan Mitchell ; Benjamin J. Eggleton</i>	
<b>NON-COLLINEAR PULSE PROPAGATION AND EXOTIC PHASE-MATCHING CONDITIONS</b> .....	271
<i>Tomasz M. Kardas ; Yuriy Stepanenko ; Czeslaw Radzewicz</i>	
<b>ANALYSIS OF DOMAIN STATISTICS OF DISORDERED STRUCTURES VIA SECOND HARMONIC DIFFRACTION</b> .....	272
<i>B. Wang ; C. Cjocjocar ; W. Krolkowski ; Y. Sheng ; H. Akhouayri ; J. Trull</i>	
<b>PHASE-VARIANCE REDUCTION OF HIGH ORDER STOKES LINES IN BRILLOUIN FIBER LASERS</b> .....	273
<i>F. Ginovart ; S. Fresnel ; A. Sebastian ; S. Trebaol ; S. La Rochelle ; P. Besnard</i>	
<b>REDUCTION OF BRILLOUIN SCATTERING FOR THE OPTIMIZATION OF LIQUID-CORE RAMAN WAVELENGTH CONVERTERS</b> .....	274
<i>Min-Châu Phan Huy ; Philippe Delaye ; Gilles Pauliat ; Nicolas Dubreuil ; Sylvie Lebrun ; Benoît Debord ; Frédéric Gérôme ; Fetah Benabid</i>	
<b>COHERENT CONTROL OF FLEXURAL VIBRATIONS IN DUAL-NANOWEB FIBRE USING PHASE-MODULATED TWO-COLOUR CW LASER LIGHT</b> .....	275
<i>J. R. Koehler ; R. E. Noskov ; A. A. Sukhorukov ; P. St. J. Russell</i>	
<b>COHERENT INTRAMODAL RAMAN GAIN SUPPRESSION AT HIGH PUMP INTENSITIES IN GAS-FILLED PHOTONIC CRYSTAL FIBRES</b> .....	276
<i>Pooria Hosseini ; Manoj K. Mridha ; David Novoa ; Amir Abdolvand ; Philip St. J. Russell</i>	
<b>THEORY OF CASCADED FORWARD BRILLOUIN SCATTERING</b> .....	277
<i>C. Wolff ; B. Stiller ; M. J. Steel ; B. J. Eggleton ; C. G. Poulton</i>	
<b>ISOLATORS AND CIRCULATORS BASED ON KERR NONRECIPROcity IN MICRORESONATORS</b> .....	278
<i>Leonardo Del Bino ; Jonathan M. Silver ; Xin Zhao ; Sarah L. Stebbings ; Pascal Del'Haye</i>	
<b>REPETITION RATE CONTROLLABLE FILTER-DRIVEN FOUR WAVE MIXING LASER</b> .....	279
<i>Hualong Bao ; Andrew Cooper ; Luigi Di Lauro ; Maxwell Rowley ; Sai T. Chu ; Brent E. Little ; Roberto Morandotti ; David J. Moss ; Marco Peccianti ; Alessia Pasquazi</i>	
<b>OPTICAL SECOND HARMONIC GENERATION FROM CHIRAL NANOSTRUCTURES</b> .....	280
<i>Irina Kolmychek ; Evgeniy Mamonov ; Sergey Magnitskiy ; Tatiana V. Murzina</i>	
<b>SECOND-HARMONIC GENERATION IN STOICHIOMETRIC SILICON NITRIDE GLASS WAVEGUIDES</b> .....	281
<i>Marco A. G. Porcel ; Jörn P. Epping ; Marcel Hoekman ; Peter Van Der Slot ; Klaus-J. Boller</i>	
<b>GENERATION AND WAVEGUIDING OF THE SUM-FREQUENCY SIGNAL IN LITHIUM NIOBATE NANOWIRES</b> .....	282
<i>Anton Sergeev ; Marc Reig Escalé ; Reinhard Geiss ; Rachel Grange</i>	

<b>PIEZO-TUNABLE SECOND-HARMONIC-GENERATION IN A WHISPERING-GALLERY RESONATOR .....</b>	<b>283</b>
<i>Christoph S. Werner ; Karsten Buse ; Ingo Breunig</i>	
<b>CASCADED WAVEGUIDE-BASED PHOTON-PHONON MEMORY .....</b>	<b>284</b>
<i>Birgit Stiller ; Moritz Merklein ; Christian Wolff ; Khu Vu ; Stephen J. Madden ; Benjamin J. Eggleton</i>	
<b>SOLITON-BASED APPLICATIONS WITH PLASMONIC NANOSUSPENSIONS .....</b>	<b>285</b>
<i>Yu-Xuan Ren ; Trevor S. Kelly ; Chensong Zhang ; Huizhong Xu ; Zhigang Chen</i>	
<b>A NONLINEAR ENHANCED MICRORESONATOR GYROSCOPE .....</b>	<b>286</b>
<i>Jonathan Silver ; Leonardo Del Bino ; Pascal Del'Haye</i>	
<b>LASER-ACTIVE WHISPERING-GALLERY RESONATORS AS VERSATILE PLATFORM FOR OPTICAL THREE-WAVE MIXING .....</b>	<b>287</b>
<i>Simon J. Herr ; Karsten Buse ; Ingo Breunig</i>	
<b>SOLITONISATION OF ANDERSON LOCALISATION IN ROGUE-SOLITON GENERATION .....</b>	<b>288</b>
<i>Mohammed F. Saleh ; Claudio Conti ; Fabio Biancalana</i>	
<b>ALL-OPTICAL SWITCHING IN TA<sub>2</sub>O<sub>5</sub> BASED MICRO-RING RESONATOR .....</b>	<b>289</b>
<i>Chung-Lun Wu ; Gong-Ru Lin ; Yi-Jen Chiu ; Ann-Kuo Chu ; Min-Hsiung Shih ; Chao-Kuei Lee</i>	
<b>ULTRAFAST PULSE GENERATION IN INTEGRATED ARRAYS OF ANAPOLE NANOLASERS .....</b>	<b>290</b>
<i>Juan Sebastian Toterogongora ; Andrey E. Miroshnichenko ; Yuri S. Kivshar ; Andrea Fratallocchi</i>	
<b>ON CHIP INTRASYSTEM QUANTUM ENTANGLED STATES GENERATOR .....</b>	<b>291</b>
<i>Fabio Antonio Bovino</i>	
<b>TOWARDS MIR SPDC GENERATION IN STRAINED SILICON WAVEGUIDES.....</b>	<b>292</b>
<i>Alessandro Trenti ; Mattia Mancinelli ; Alessandro Marchesini ; Claudio Castellan ; Mher Ghulinyan Lorenzo Pavesi</i>	
<b>THE INVISIBLE RANGEFINDER.....</b>	<b>293</b>
<i>Stefan Frick ; John Rarity</i>	
<b>SUM-FREQUENCY GENERATION AND PHOTON-PAIR CREATION IN AIGAAS NANO-DISKS .....</b>	<b>294</b>
<i>Giuseppe Marino ; Alexander S. Soltsev ; Lei Xu ; Valerio Gili ; Luca Carletti ; Alexander N. Poddubny ; Daria Smirnova ; Haitao Chen ; Guoquan Zhang ; Anatoly V. Zayats ; Costantino De Angelis ; Giuseppe Leo ; Yuri S. Kivshar ; Andrey A. Sukhorukov ; Dragomir N. Neshev</i>	
<b>QUANTUM SPECTROSCOPY ON A NONLINEAR PHOTONIC CHIP.....</b>	<b>295</b>
<i>A. S. Soltsev ; P. Kumar ; T. Pertsch ; A. A. Sukhorukov ; F. Setzpfandt</i>	
<b>FREEZING NEMATICS VIA PHOTO-POLYMERIZATION .....</b>	<b>296</b>
<i>Nazanin Karimi ; Alessandro Alberucci ; Oleksandr Buchnev ; Arri Priimagi ; Martti Kauranen ; Gaetano Assanto</i>	
<b>MULTI-MJ RAMAN FREQUENCY SHIFTER FOR HIGH-FIELD THZ GENERATION IN ORGANIC CRYSTALS.....</b>	<b>297</b>
<i>C. Vicario ; M. Shalaby ; L. Losev ; A. V. Konyashchenko ; C. P. Hauri</i>	
<b>SIMULTANEOUS FREQUENCY CONVERSIONS IN NONLINEAR PHOTONIC CRYSTALS OF LITHIUM TANTALATE WITH A SQUARE LATTICE.....</b>	<b>298</b>
<i>Zohra Illas ; Min Won Lee ; Régis Kremer ; Kai-Hsun Chang ; M. R. Beghou ; Lung-Han Peng ; Azzedine Boudrioua</i>	
<b>SUPERCONTINUUM GENERATION IN AN OPTICAL FIBER CAPILLARY FILLED WITH TOLUENE .....</b>	<b>299</b>
<i>Gil Fanjoux ; Samuel Margueron ; Jean-Charles Beugnot ; Thibaut Sylvestre</i>	
<b>TOWARDS ON-CHIP NET-GAIN IN CMOS-COMPATIBLE WAVEGUIDES .....</b>	<b>300</b>
<i>Clemens J. Krückel ; Peter A. Andrekson ; Victor Torres-Company</i>	
<b>STUDY OF RAMAN-FREE PHOTON PAIR GENERATION USING INTER-MODAL FOUR-WAVE MIXING IN A FEW-MODE SILICA FIBER.....</b>	<b>301</b>
<i>Soren M. M. Friis ; Jesper B. Christensen ; Jacob G. Koefoed ; Karsten Rotthwitt</i>	
<b>HIGH-POWER BROADBAND SOURCE TUNABLE FROM 2.8 TO 4 μM BASED ON DIFFERENCE FREQUENCY GENERATION .....</b>	<b>302</b>
<i>Grzegorz Sobon ; Tadeusz Martynkien ; Pawel Mergo ; Marco Marangoni ; Aleksandra Foltynowicz</i>	
<b>OPTICAL PARAMETRIC CHIRPED PULSE OSCILLATION .....</b>	<b>303</b>
<i>Maximilian Brinkmann ; Tim Hellwig ; Carsten Fallnich</i>	
<b>REPETITION-RATE SCALING OF HIGH HARMONIC GENERATION IN GASES.....</b>	<b>304</b>
<i>Tobias Saule ; Maximilian Högnér ; Nikolai Lilienfein ; Oliver Devries ; Marco Plötner ; Nicholas Karpowicz ; Vladislav S. Yakovlev ; Jens Limpert ; Andreas Tünnermann ; Joachim Pupeza</i>	
<b>IMPROVING THE RESOLUTION OBTAINED IN LENSLESS IMAGING WITH SPATIALLY SHAPED HIGH-ORDER HARMONICS .....</b>	<b>305</b>
<i>Daniel Treacher ; David T. Lloyd ; Kevin O'Keeffe ; Patrick N. Anderson ; Simon M. Hooker</i>	
<b>30-HZ-LINEWIDTH WATT OUTPUT POWER 1.65 μM CONTINUOUS-WAVE SINGLY RESONANT OPTICAL PARAMETRIC OSCILLATOR .....</b>	<b>306</b>
<i>Aliou Ly ; Christophe Siour ; Fabien Bretenaker</i>	
<b>COHERENT SUPERCONTINUUM GENERATION BEYOND 2.6 μM IN ALL-NORMAL DISPERSION SILICA MICROSTRUCTURED FIBERS.....</b>	<b>307</b>
<i>Karol Tarnowski ; Tadeusz Martynkien ; Alicja Anuszkiewicz ; Pawel Mergo ; Krzysztof Poturaj ; Pierre Béjot ; Franck Billard ; Olivier Faucher ; Bertrand Kibler ; Wacław Urbanczyk</i>	
<b>FOURIER PLANE ANALYSIS OF UP-CONVERTED IMAGES IN THE VISIBLE REGION UNDER DIFFERENT BANDWIDTH IR ILLUMINATION SOURCES .....</b>	<b>308</b>
<i>Adrián J. Torregrosa ; Haroldo Maestre ; María L. Rico ; Juan Capmany</i>	
<b>ENERGY SCALING OF YELLOW EMISSION FROM MONOLITHIC DIAMOND RAMAN LASERS .....</b>	<b>309</b>
<i>Sean Reilly ; Vasili G. Savitski ; Hangyu Liu ; Erdan Gu ; Martin D. Dawson ; Alan J. Kemp</i>	
<b>NONLINEAR COMBINING OF CHIRPED AND PHASE-MODULATED GAUSSIAN PULSES IN MULTI- CORE FIBERS.....</b>	<b>310</b>
<i>I. S. Chekhovskoy ; A. M. Rubenchik ; O. V. Shtyrina ; M. P. Fedoruk ; S. K. Turitsyn</i>	

<b>INTERACTION OF TRANSVERSE MODES VIA STIMULATED RAMAN SCATTERING ON COMB GENERATION IN A SILICA TOROID MICROCAVITY</b> .....	311
<i>Atsuhiko Hori ; Takumi Kato ; Ryo Suzuki ; Shun Fujii ; Tomoya Kobatake ; Takasumi Tanabe</i>	
<b>BROAD TUNABLE PHOTONIC MICROWAVE SOURCE USING A SINGLE-MODE VCSEL SUBJECT TO PARALLEL OPTICAL INJECTION</b> .....	312
<i>Songkun Ji ; Yanhua Hong ; Paul S. Spencer ; Johannes Benedikt ; Iwan Davies</i>	
<b>YB-FIBER-PUMPED HIGH-REPETITION-RATE PICOSECOND DEEP-IRRED OPTICAL PARAMETRIC OSCILLATOR</b> .....	313
<i>S. Chaitanya Kumar ; J. Canals Casals ; S. Parsa ; K. T. Zawilski ; P. G. Schunemann ; M. Ebrahim-Zadeh</i>	
<b>YB-FIBER-GREEN-PUMPED, WIDELY TUNABLE, ROOM-TEMPERATURE PICOSECOND OPTICAL PARAMETRIC OSCILLATOR BASED ON FAN-OUT PPKTP</b> .....	314
<i>S. Chaitanya Kumar ; S. Parsa ; M. Ebrahim-Zadeh</i>	
<b>ANGULAR ACCEPTANCE OF COMPACT-SIZE INFRARED-TO-VISIBLE IMAGE UPCONVERTERS WITH A TEMPERATURE GRADIENT</b> .....	315
<i>Haroldo Maestre ; Adrián J. Torregrosa ; María L. Rico ; Juan Capmany</i>	
<b>NOVEL MID-IRRED IMAGING SYSTEM BASED ON SINGLE-MODE QUANTUM CASCADE LASER ILLUMINATION AND UPCONVERSION</b> .....	316
<i>Ján Tomko ; Saher Junaid ; Peter Tidemand-Lichtenberg ; W. Ted Masselink</i>	
<b>EXPERIMENTAL INVESTIGATION OF CROSS-POLARIZED WAVE GENERATED WITH FOCUSED SPATIALLY DISPERSED BEAM</b> .....	317
<i>O. Chekhlov ; Y. Tang ; B. Parry ; S. Hawkes ; C. J. Hooker ; C. Hernandez-Gomez ; P. P. Rajeev</i>	
<b>FEMTOSECOND FREQUENCY CONVERSION IN DIAMOND UNDER GAUSSIAN AND BESSEL BEAM PUMPING</b> .....	318
<i>Vasili G. Savitski ; Rolf B. Birch ; Sean Reilly ; Vladimir L. Kalashnikov ; Alan J. Kemp</i>	
<b>70 MJ SINGLE-FREQUENCY PARAMETRIC SOURCE TUNABLE BETWEEN 1.87–1.93 <math>\mu</math>M AND 2.37–2.47 <math>\mu</math>M FOR DIFFERENCE FREQUENCY GENERATION IN THE LWIR</b> .....	319
<i>J. Armougom ; J. -M. Melkonian ; J. -B. Dherbercourt ; M. Raybaut ; A. Godard ; R. S. Coetsee ; A. Zukauskas ; V. Pasiskevicius</i>	
<b>STIMULATED RAMAN SCATTERING MICROSCOPY WITH A NYQUIST MODULATED TWO-BRANCH FIBER LASER AND BOXCAR SIGNAL RECOVERY</b> .....	320
<i>Peter Fimpel ; Claudius Riek ; Alfred Leitenstorfer ; Daniele Brida ; Andreas Zumbusch</i>	
<b>INTRACAVITY UPCONVERSION FOR IR ABSORPTION LIDAR: COMPARISON OF LINEAR AND RING CAVITY DESIGNS</b> .....	321
<i>Lichun Meng ; Lasse Hogstedt ; Peter Tidemand-Lichtenberg ; Christian Pedersen ; Peter John Rodrigo</i>	
<b>FAST RECONFIGURABLE SOA-BASED WAVELENGTH CONVERSION OF POL-MUX QPSK DATA EMPLOYING SWITCHING TUNEABLE PUMP LASERS</b> .....	322
<i>Yi Lin ; Aravind P. Anthur ; Fan Liu ; Sean O'Duill ; Yonglin Yu ; Liam P. Barry</i>	
<b>SPATIO-TEMPORAL MULTIPLEXING BASED ON MULTI-CORE FIBER</b> .....	323
<i>I. S. Chekhovskoy ; M. A. Sorokina ; A. M. Rubenchik ; M. P. Fedoruk ; S. K. Turitsyn</i>	
<b>PHOTONIC INFORMATION PROCESSING AT 20GS/S RATES BASED ON SEMICONDUCTOR LASERS WITH DELAYED OPTICAL FEEDBACK</b> .....	324
<i>Julián Bueno ; Daniel Brunner ; Miguel C. Soriano ; Ingo Fischer</i>	
<b>SELF-MODE-LOCKED, INTRACAVITY SYNCHRONOUSLY PUMPED, COLLINEARLY PHASE-MATCHED PARAMETRIC RAMAN STOKES-ANTI-STOKES ND:YAG/CACO<sub>3</sub> LASER</b> .....	325
<i>M. Jelínek ; V. Kubecek ; S. N. Smetanin</i>	
<b>SECOND HARMONIC GENERATION AND BEAM CLEANING IN OPTICALLY POLED MULTIMODE GRADED-INDEX FIBERS</b> .....	326
<i>Davide Ceoldo ; Katarzyna Krupa ; Alessandro Tonello ; Vincent Couderc ; Daniele Modotto ; Umberto Minoni ; Guy Millot ; Stefan Wabnitz</i>	
<b>A MICROSCOPIC INSIGHT ON LIGHT-INDUCED POLARON CONDUCTION IN FE:LINBO<sub>3</sub></b> .....	327
<i>Laura Vittadello ; Marco Bazzan ; Simon Messerschmidt ; Mirco Imlau ; Imed Mhaouech ; Laurent Guilbert</i>	
<b>SLOW LIGHT VIA TUNNELING INDUCED TRANSPARENCY IN QUANTUM WELL HETEROSTRUCTURES</b> .....	328
<i>Bernhard Glauber ; Petar Tzenov ; Christian Jirauschek</i>	
<b>ULTRAFAST NONLINEAR KERR EFFECT IN TYPE-II SUPERCONDUCTORS</b> .....	329
<i>Charles W. Robson ; Kieran A. Fraser ; Fabio Biancalana</i>	
<b>RB:PPKTP OPTICAL PARAMETRIC OSCILLATOR WITH INTRACAVITY DIFFERENCE-FREQUENCY GENERATION IN TEMPERATURE-TUNED OPGAAS</b> .....	330
<i>Andrey Boyko ; Nadezhda Kostyukova ; Shekhar Guha ; Peter G. Schunemann ; Georgi Marchev ; Vladimir Panyutin ; Valdas Pasiskevicius ; Dmitry Kolker ; Andrius Zukauskas ; Valentin Petrov</i>	
<b>SPATIO-TEMPORAL EVOLUTION OF ULTRASHORT PULSES IN GRADED-INDEX MULTIMODE FIBER AT NORMAL DISPERSION</b> .....	331
<i>Ugar Tegin ; Büilend Ortaç</i>	
<b>ACTIVE FEEDBACK STABILIZATION OF NORMAL-DISPERSION MICRORESONATOR COMBS</b> .....	332
<i>Attila Fülöp ; Pei-Hsun Wang ; Yi Xuan ; Dan E. Leaird ; Minghao Qi ; Peter A. Andrekson ; Andrew M. Weiner ; Victor Torres-Company</i>	
<b>NONLINEAR IMAGING IN PHOTONIC LATTICES</b> .....	333
<i>Nikolaos K. Efremidis ; Mihalís Barkas</i>	
<b>THE INFLUENCE OF THE PULSE WIDTH ON THE NONLINEAR REFRACTIVE INDEX OF ORGANIC SOLVENTS</b> .....	334
<i>M. L. Miguez ; T. G. B. De Souza ; E. C. Barbano ; S. C. Zilie ; L. Misoguti</i>	

<b>NONLINEAR SPECTRAL COMPRESSION IN FIBRE AS A POWER-LIMITING DEVICE</b> .....	335
<i>Sonia Boscolo ; Julien Fatome ; Auro M. Perego ; Manon Lamy ; Christophe Finot</i>	
<b>PARAMETRIC FREQUENCY CONVERSION IN TA<sub>2</sub>O<sub>5</sub> BASED MICRO-RING CAVITY</b> .....	336
<i>Chung-Lun Wu ; Jen-Yang Huang ; Din-Hsin Ou ; Yi-Jen Chiu ; Min-Hsiung Shih ; Ann-Kuo Chu ; Chao-Kuei Lee</i>	
<b>3.9-<math>\mu</math>M OPTICAL PARAMETRIC OSCILLATOR BASED ON MGO:PPLN PUMPED AT 1966 NM USING A HIGH-REPETITION-RATE TM<sup>0</sup>:LU<sub>2</sub>O<sub>3</sub> CERAMIC LASER</b> .....	337
<i>Oleg Antipov ; Roman Kositsyn ; Dmitry Kal'Yanov ; Dmitry Kolker ; Sergey Larin</i>	
<b>OPTIMUM SILICON TAPER STRUCTURES WITH MINIMUM TEMPORAL WALK-OFF FOR NONLINEAR OPTICAL SIGNAL PROCESSING APPLICATIONS</b> .....	338
<i>Mahmoud Jazayerifar ; Hamed Aminpour ; Kambiz Jamshidi</i>	
<b>MEASUREMENT OF THE NONLINEAR REFRACTIVE INDEX IN OPTICAL FIBERS BY ACOUSTO-OPTIC INTERACTION</b> .....	339
<i>E. Rivera-Pérez ; A. Diez ; E. P. Alcusa-Sáez ; M. V. Andrés</i>	
<b>CAVITY OPTOMECHANICAL COUPLING TO MULTIPLE RESONANCES ASSISTED BY KERR COMB GENERATION IN TOROID MICROCAVITY</b> .....	340
<i>Ryo Suzuki ; Takumi Kato ; Tomoya Kobatake ; Takasumi Tanabe</i>	
<b>ROOM-TEMPERATURE, RAPIDLY-TUNABLE, CONTINUOUS-WAVE OPTICAL PARAMETRIC OSCILLATOR FROM THE RED TO THE MID-INFRARED</b> .....	341
<i>Kavita Devi ; Majid Ebrahim-Zadeh</i>	
<b>TUNABLE, VORTEX DIPOLE DOUBLY RESONANT OPTICAL PARAMETRIC OSCILLATOR</b> .....	342
<i>Varun Sharma ; A. Aadhi ; G. K. Samanta</i>	
<b>MEASUREMENT OF BACKSCATTERING IN HOLLOW CORE PHOTONIC CRYSTAL FIBER BASED RESONANT CAVITIES</b> .....	343
<i>Alexia Ravaille ; Gilles Feugnet ; Bertrand Morbieu ; Ihsan Fsaïfes ; Assaad Baz ; Benoît Debord ; Frédéric Gérôme ; Georges Humbert ; Fetah Benabid ; Fabien Bretenaker</i>	
<b>ANALYTICAL FORMULATION OF BEND-LOSS SENSITIVITY IN SINGLE-RING HOLLOW-CORE PHOTONIC CRYSTAL FIBRES</b> .....	344
<i>M. H. Frosz ; M. C. Günendi ; P. St. J. Russell</i>	
<b>DISPERSION MEASUREMENT OF ENGINEERED ANTIRESONANT HOLLOW-CORE FIBERS WITH SPECTRAL INTERFEROMETRY</b> .....	345
<i>T. Grigorova ; R. Sollapur ; A. Hoffmann ; D. Kartashov ; M. Zürich ; A. Härtung ; A. Schwuchow ; J. Bierlich ; J. Kobelke ; M. A. Schmidt ; C. Spielmann</i>	
<b>TOWARD SINGLE-MODE UV TO NEAR-IR GUIDANCE USING HOLLOW-CORE ANTI-RESONANT SILICA FIBER</b> .....	346
<i>Md. Selim Habib ; Jose Enrique Antonio-Lopez ; Amy Van Newkirk ; Juan Carlos Alvarado Zacarías ; Axel Schülzgen ; Rodrigo Amezcua-Correa ; Christos Markos ; Ole Bang ; Morten Bache</i>	
<b>KW-CLASS FIBER LASER PREPARED USING AN ALTERNATIVE SOLUTION DOPING MCVD-TECHNIQUE</b> .....	347
<i>Stefan Kuhn ; Christian Hupel ; Sigrun Hein ; Franz Beier ; Johannes Nold ; Nicoletta Haarlamert ; Thomas Schreiber ; Ramona Eberhardt ; Andreas Tinnermann</i>	
<b>INTEGRATED OPTICAL FIBRE COUPLER</b> .....	348
<i>Christopher Holmes ; Alexander Jantzen ; Stephen G Lynch ; Paul C Gow ; Teresa Ferreira ; Peter G R Smith</i>	
<b>LASER MATERIALS PROCESSING OF OPTICAL MATERIALS AND CHARACTERIZATION</b> .....	349
<i>Patrik Hoffmann</i>	
<b>FABRICATION OF FREE-STANDING GLASS BEAMS AS OPTICAL WAVEGUIDES</b> .....	350
<i>Jakub Drs ; Yves Bellouard</i>	
<b>FUSED SILICA OPTICAL FIBERS WITH ARBITRARY GRADIENT INDEX NANOSTRUCTURED CORE</b> .....	351
<i>Ryszard Buczynski ; Rafal Kasztelaniec ; Adam Filipkowski ; Dariusz Pysz ; Bartłomiej Siwicki ; Ryszard Stepień ; Mariusz Klimczak</i>	
<b>ENHANCED TEMPERATURE SENSITIVITY OF THERMALLY REGENERATED DIRECT ULTRAVIOLET WRITTEN GRATINGS IN GERMANIUM DOPED CORE FIBER</b> .....	352
<i>Alexander Jantzen ; Rex H. S. Bannerman ; Lewis J. Boyd ; Peter G. R. Smith ; Christopher Holmes</i>	
<b>FLUORESCENT SINGLE CRYSTAL, PYRAMIDAL DIAMOND TIPS AS PHOTONIC STRUCTURES FOR SCANNING PROBE MAGNETOMETRY</b> .....	353
<i>Richard Nelz ; Philipp Fuchs ; Oliver Opaluch ; Selda Sonasen ; Natalia Savenko ; Vitali Podgursky ; Elke Neu</i>	
<b>GROWTH AND SPECTROSCOPY OF ER:KGD<sub>x</sub>YB<sub>y</sub>Y<sub>1-x-y</sub>(WO<sub>4</sub>)<sub>2</sub> EPITAXIAL LAYERS FOR PLANAR WAVEGUIDE LASERS</b> .....	354
<i>Sergei Kurilchik ; Olga Demnovich ; Konstantin Gorbachenya ; Viktor Kisel ; Irina Kolesova ; Andrei Kravtsov ; Sergei Guretsky ; Nikolay Kuleshov</i>	
<b>GROWTH AND SPECTROSCOPY OF NOVEL RAMAN-ACTIVE MOLYBDATE LASER CRYSTALS: YB:Li<sub>2</sub>M<sub>2</sub>(MOO<sub>4</sub>)<sub>3</sub> WHERE M = MG OR ZN</b> .....	355
<i>Sergei Kurilchik ; Pavel Loiko ; Anatol Yasukevich ; Elena Vilejshikova ; Josep Maria Serres ; Xavier Mateos ; Viktor Kisel ; Anatoly Pavlyuk ; Vyacheslav Trifonov ; Nikolay Kuleshov</i>	
<b>SPECTROSCOPIC PROBE OF RARE-EARTH DISTRIBUTION IN TRANSPARENT OXYFLUORIDE GLASS-CERAMICS</b> .....	356
<i>Rolindes Balda ; Giulio Gorni ; José J. Velázquez ; María J. Pascual ; Alicia Durán ; Joaquín Fernandez</i>	
<b>TIN DIOXIDE BASED PHOTONIC SYSTEMS</b> .....	357
<i>L. T. N. Tran ; M. Meneghetti ; L. Zur ; A. Chiasera ; C. Armellini ; S. Varas ; T. T. V. Tran ; A. Lukowiak ; D. Zonta ; G. C. Righini ; M. Ferrari</i>	



<b>MONOCLINIC TM<sup>3+</sup>:MGWO<sub>4</sub> — A NOVEL EFFICIENT LASER EMITTING ABOVE 2 μM</b> .....	358
<i>Pavel Loiko ; Josep Maria Serres ; Lizhen Zhang ; Xavier Mateos ; Magdalena Aguiló ; Francesc Díaz ; Zhoubin Lin ; Haifeng Lin ; Ge Zhang ; Konstantin Yumashev ; Valentin Petrov ; Uwe Griebner ; Yicheng Wang ; Sun Young Choi ; Fabian Rotermund ; Weidong Chen</i>	
<b>BATCH-PROCESSED HIGH-Q INTEGRATED LITHIUM-NIOBATE-ON-INSULATOR RIDGE WAVEGUIDE WHISPERING-GALLERY RESONATORS</b> .....	359
<i>Richard Wolf ; Hans Zappe ; Karsten Buse ; Ingo Breunig</i>	
<b>LAMINATED WAVEGUIDES — AN ALTERNATIVE APPROACH TO THE PRODUCTION OF INTEGRATED PHOTONIC DEVICES</b> .....	360
<i>Christian Kelb ; Eduard Reithmeier ; Bernhard Roth</i>	
<b>HIGH-ASPECT-RATIO ELECTRO-OPTICAL RIDGE WAVEGUIDE MADE BY PRECISE DICING AND ATOMIC LAYER DEPOSITION</b> .....	361
<i>Alexis Caspar ; Gwenn Ulliac ; Miguel Suarez ; Venancio Calero ; Maria-Pilar Bernal ; Nadège Courjal ; Matthieu Roussey ; Markus Häyrynen ; Janne Laukkanen ; Seppo Honkanen ; Markku Kuitinen</i>	
<b>HIGH GAIN IN ERBIUM-DOPED CHANNEL WAVEGUIDES</b> .....	362
<i>Sergio A. Vázquez-Córdova ; Shanmugam Aravazhi ; Christos Grivas ; Yean-Sheng Yong ; Sonia M. García-Blanco ; Jennifer L. Herek ; Markus Pollnau</i>	
<b>CHALCOGENIDE OPTICAL WAVEGUIDES WITH EXTREMELY HIGH STIMULATED BRILLOUIN SCATTERING GAIN FOR INTEGRATED DEVICES</b> .....	363
<i>Khu Vu ; Duk Choi ; Pan Ma ; Blair Morrison ; Birgit Stiller ; Amol Choudhary ; Benjamin J Eggleton ; Steve Madden</i>	
<b>OPTICAL-COHERENCE-TOMOGRAPHY CHARACTERIZATION OF FREE STANDING ELECTRO-OPTICAL MICRO AND NANOSTRUCTURES</b> .....	364
<i>Florent Behague ; Alexis Caspar ; Gwenn Ulliac ; Miguel Suarez ; Venancio Calero ; Maria-Pilar Bernal ; Nadège Courjal</i>	
<b>THE IMPORTANT ROLE OF REFLECTIONS IN MULTIPOLAR NONLINEAR OPTICAL CHARACTERIZATION OF THIN FILMS</b> .....	365
<i>Kalle Koskinen ; Robert Czaplícki ; Martti Kauranen</i>	
<b>DIELECTRIC MULTILAYER STRUCTURES FABRICATED BY RF-SPUTTERING</b> .....	366
<i>A. Chiasera ; F. Scotognella ; S. Varas ; I. Kriegel ; G. Galzerano ; L. Criante ; A. Lukowiak ; D. Ristic ; L. Zur ; S. Taccheo ; M. Ivanda ; G. C. Righini ; R. Ramponi ; M. Ferrari</i>	
<b>MID-INFRARED CRYSTALLINE MIRRORS WITH ULTRALOW OPTICAL LOSSES</b> .....	367
<i>C. Deutsch ; G. D. Cole ; D. Follman ; P. Heu ; B. J. Bjork ; C. Franz ; A. Alexandrovski ; O. H. Heckl ; J. Ye ; M. Aspelmeyer</i>	
<b>HIGHLY EFFICIENT ORGANIC LIGHT-EMITTING DIODES WITH COMPLETELY ORIENTED DELAYED FLUORESCENT EMITTERS</b> .....	368
<i>Takeshi Komino ; Yuta Sagara ; Hiroyuki Tanaka ; Yuji Oki ; Nozomi Nakamura ; Hiroshi Fujimoto ; Chihaya Adachi</i>	
<b>DIELECTRIC OPTICAL COATINGS AT HIGH PEAK INTENSITIES</b> .....	369
<i>Tatiana Amotchkina ; Michael Trubetskov ; Elena Fedulova ; Kilian Fritsch ; Oleg Pronin ; Ferenc Krausz ; Vladimir Pervak</i>	
<b>PHASE ENGINEERING OF TIN SULPHIDE GROWN BY ATMOSPHERIC PRESSURE CHEMICAL VAPOUR DEPOSITION AT AMBIENT TEMPERATURE</b> .....	370
<i>Ghadah Al Zaidy ; Chris Craig ; Daniel W. Hewak ; Kevin Chung-Che Huang ; Ioannis Zeimpekis-Karakonstantinos ; Katrina Morgan ; Ed Weatherby</i>	
<b>GALLIUM NITRIDE FREE STANDING METASURFACES</b> .....	371
<i>Briere Gauthier ; Patrice Genevet</i>	
<b>COMBINATORIAL SEARCH FOR PLASMONIC AND EPSILON-NEAR-ZERO CHALCOGENIDE ALLOYS</b> .....	372
<i>D. Piccinotti ; B. Gholipour ; J. Yao ; K. F. Macdonald ; B. E. Hayden ; N. I. Zheludev</i>	
<b>THE INSIDE VIEW OF 3D PHOTONIC NANOSTRUCTURES</b> .....	373
<i>D. A. Grishina ; P. Cloetens ; C. A. M. Hartevelde ; A. Pacureanu ; P. W. H. Pinkse ; A. Lagendijk ; W. L. Vos</i>	
<b>FULL PHOTONIC BAND-STRUCTURE MEASUREMENT OF A THREE-DIMENSIONAL PHOTONIC CRYSTAL USING INFRARED FOURIER IMAGING SPECTROSCOPY</b> .....	374
<i>Lifeng Chen ; Martin Lopez-Garcia ; Mike P. C. Taverne ; Xu Zheng ; Ying-Lung D. Ho ; John Rarity</i>	
<b>DISORDER-ENABLED PURE CIRCULAR DICHROISM IN BILAYER PLASMONIC METASURFACES</b> .....	375
<i>Stefan Fasold ; Matthias Falkner ; Trideep Kawde ; Sebastian Linb ; Manuel Decker ; Isabelle Staude ; Thomas Pertsch</i>	
<b>SPATIAL AND SPECTRAL TAILORING OF VISIBLE LIGHT EMISSION WITH MIE RESONANCES IN SILICON NANOANTENNA ARRAYS</b> .....	376
<i>Aleksandr Vaskin ; Katie E. Chong ; Matthias Zilk ; Tobias Bucher ; Duk-Yong Choi ; Dragomir N. Neshev ; Yuri S. Kivshar ; Thomas Pertsch ; Isabelle Staude</i>	
<b>MONOLITHICALLY INTEGRATED III-V GAIN MATERIAL ON VIRTUAL SUBSTRATES ON SI USING TEMPLATE-ASSISTED SELECTIVE EPITAXY</b> .....	377
<i>Benedikt Mayer ; Stephan Wirths ; Lukas Czornomaz ; Heinz Schmid ; Marilynne Sousa ; Heike Riel ; Kirsten Moselund</i>	
<b>HIGH Q GALLIUM NITRIDE MICRORING RESONATORS</b> .....	378
<i>E. Stassen ; M. Pu ; E. Semenova ; E. Zavarin ; W. Lundin ; K. Yvind</i>	
<b>THERMO-OPTIC CHARACTERIZATION OF SILICON CARBIDE MICRODISKS FOR INFRARED APPLICATIONS</b> .....	379
<i>David Allieux ; Ali Belarouci ; Eric Magi ; Darren Hudson ; Guillaume Beaudin ; Adrien Michon ; Régis Orobtchouk ; Christian Grillet</i>	
<b>PHOTOCONDUCTIVITY OF AN INAS/GAAS SELF-ASSEMBLED QUANTUM DOT PHOTOCONDUCTIVE THZ ANTENNA</b> .....	380
<i>Amit Yadav ; Andrei Gorodetsky ; Eugene Avrutin ; Ksenia A. Fedorova ; Edik U. Rafailov</i>	
<b>MICROSTRUCTURED OPTICS BY 3D PRINTING</b> .....	381
<i>H. Glessen ; S. Thiele ; S. Ristok ; A. Nerkommer</i>	

<b>ON-FIBER 3D PRINTING OF PHOTONIC CRYSTAL FIBER TAPERS FOR MODE FIELD DIAMETER CONVERSION</b> .....	382
<i>Andrea Bertoni; Vijayakumar P. Rajamanickam; Carlo Liberale</i>	
<b>POINT-BY-POINT FIBER BRAGG GRATING INSCRIPTION IN A DEDICATED MULTI-RING HEXAGONAL LATTICE PHOTONIC CRYSTAL FIBER</b> .....	383
<i>T. Baghdasaryan; T. Geernaert; K. Chah; C. Caucheteur; K. Schuster; J. Kobelke; H. Thienpont; F. Berghmans</i>	
<b>LIQUID CRYSTAL ALIGNMENT ON ULTRAFAST LASER NANOSTRUCTURED ITO COATED GLASS</b> .....	384
<i>Asi Solodar; Austra Cerkauskaitė; Rakas Drevinskas; Peter G. Kazansky; Ibrahim Abdulhalim</i>	
<b>LASER ANNEALED LOW TEMPERATURE DEPOSITED POLYSILICON WAVEGUIDES FOR NONLINEAR PHOTONICS</b> .....	385
<i>Y. Franz; A. F. J. Runge; S. Z. Oo; N. Healy; G. Martínez-Jimenez; A. Z. Khokhar; A. Tarazona; H. M. H. Chong; S. Mailis; A. C. Peacock</i>	
<b>NEW TRENDS FOR OPTICAL CERAMICS</b> .....	386
<i>Akio Ikesue</i>	
<b>STRONG ELECTRO-OPTIC EFFECT IN SELF ASSEMBLED PEPTIDE NANOFIBERS</b> .....	387
<i>Barak Gilboa; Clément Lafargue; Amir Handelman; Linda J. W. Shimon; Gil Rosenman; Joseph Zyss; Tal Ellenbogen</i>	
<b>NONLINEAR OPTICAL PROPERTIES AND APPLICATION OF A CHIRAL SPIN CROSSOVER COMPOUND</b> .....	388
<i>Antonio Iazzolino; Amine Ould Hamouda; Ahmad Naïm; Patrick Rosa; Eric Freysz</i>	
<b>ORIENTED ZNO NANORODS: A NOVEL SATURABLE ABSORBER FOR LASERS AT 1–2 μM</b> .....	389
<i>Pavel Loiko; Tanujjal Bora; Josep Maria Serres; Xavier Mateos; Haohai Yu; Alexander Baranov; Magdalena Aguiló; Francisc Díaz; Uwe Griebner; Valentin Petrov; Joydeep Dutta</i>	
<b>WATER-LIKE-REFRACTIVE-INDEX MICRODISK CAVITY BY THE INK-JET PRINTING METHOD</b> .....	390
<i>Yuya Mikami; Soichiro Ryu; Cong Chen; Naoya Nishimura; Hiroaki Yoshioka; Yuji Oki</i>	
<b>STUDY OF DIFFERENCE FREQUENCY GENERATION AND OPTICAL PARAMETRIC AMPLIFICATION IN LA<sub>3</sub>GA<sub>5.5</sub>TA<sub>0.5</sub>O<sub>14</sub> IN THE FEMTOSECOND REGIME</b> .....	391
<i>Elodie Boursier; Giedrė Marija Archipovaite; Jean-Christophe Delagnes; Stéphane Petit; Guilmot Ernotte; Philippe Lassonde; Jérôme Debray; Yannick Petit; Patricia Segonds; Benoît Boulanger; François Légaré; Eric Cormier</i>	
<b>POTASSIUM-TANTALATE-NIOBATE MIXED CRYSTAL THIN FILMS FOR APPLICATIONS IN NONLINEAR INTEGRATED OPTICS</b> .....	392
<i>Yuechen Jia; Jan Szabados; Markus Winkler; Ingo Breunig; Volker Cimalla; Lutz Kirste; Agnė Žukauskaitė; Karsten Buse</i>	
<b>SURFACE DOMAIN ENGINEERING IN BULK AND THIN FILM LITHIUM NIOBATE: A SYSTEMATIC EXPERIMENTAL STUDY</b> .....	393
<i>Badrudin Jakob Stanicki; Reinhard Geiss; Ljiljana Djurdjevic; Franz J. F. Löchner; Wei-Kun Chang; Yen-Hung Chen; Frank Setzpfandt; Thomas Pertsch</i>	
<b>NONLINEAR REFRACTIVE INDEX OF ELECTRIC FIELD-ORIENTED AU NANORODS</b> .....	394
<i>L. De S. Menezes; M. Maldonado; L. Araujo; G. K. B. Costa; J. Fontana; I. C. Carvalho; A. S. L. Gomes</i>	
<b>NOVEL SINGLE BEAM TECHNIQUE TO CHARACTERISE THIRD ORDER NONLINEAR INTEGRATED WAVEGUIDES</b> .....	395
<i>Samuel Serna; Nicolas Dubreuil</i>	
<b>SECOND-HARMONIC GENERATION IMAGING FOR CRYSTAL STRUCTURE CHARACTERIZATION IN III-V NANOWIRES</b> .....	396
<i>M. Timofeeva; A. Bouravlev; G. Cirlin; M. Reig Escalé; A. Sergeev; R. Grange</i>	
<b>INFRARED MATERIALS AND FIBER OPTICS</b> .....	397
<i>Jas Sanghera; Woohong Kim; Colin Baker; Shyam Bayya; Vinh Nguyen; Daniel Gibson; Guillermo Villalobos; Michael Hunt; Jason Myers; Brandon Shaw; Rafael Gattass; Jesse Frantz; Lynda Busse; Steven Bowman; Joe Friebele; Ishwar Aggarwal; Dan Rhonehouse</i>	
<b>THERMAL ANISOTROPY IN [110] AND [111] ORIENTED CUBIC CRYSTALS FOR LASER APPLICATION</b> .....	398
<i>K. Genevrier; D. N. Papadopoulos; P. Camy; J. -L. Doualan; R. Moncorgé; P. Georges; F. Druon</i>	
<b>MULTIMATERIAL MID-INFRARED TRANSMITTING FIBRE BUNDLE FOR THERMAL IMAGING</b> .....	399
<i>Joris Lousteau; Nicholas White; Andrea Ventura; Ali Masoudi; Francesco Poletti</i>	
<b>BISMUTH OPTICAL PROPERTIES AND REDOX IN ALUMINOSILICATE GLASSES</b> .....	400
<i>Alexander Veber; Maria Rita Cicconi; Dominique De Ligny</i>	
<b>OPTICAL CHARACTERIZATION OF ND<sup>3+</sup>:LiCaAlF<sub>6</sub> IN THE VACUUM ULTRAVIOLET REGION AT LOW TEMPERATURE</b> .....	401
<i>Marilou Cadatal-Raduban; Yuki Minami; Ren Arita; Minh Hong Pham; Melvin John F. Empizo; Mui Viet Luong; Tatsuhiko Hori; Masahiro Takabatake; Kazuhito Fukuda; Kazuyuki Mori; Kohei Yamanoi; Toshihiko Shimizu; Nobuhiko Sarukura; Kentaro Fukuda; Noriaki Kawaguchi; Yuui Yokota; Akira Yoshikawa</i>	
<b>TERBIUM GARNETS FOR HIGH AVERAGE POWER FARADAY ISOLATORS: INFLUENCE OF COMPOSITION, DOPING AND HIGH TEMPERATURE ANNEALING TO THE LOSSES IN THE NEAR-IR RANGE</b> .....	402
<i>I. A. Ivanov; D. N. Karimov; V. F. Seregin; V. B. Tsvetkov</i>	
<b>AMORPHOUS HYDROGENATED SILICON CARBONITRIDE AS LOW REFRACTIVE INDEX MATERIAL IN OPTICAL MEMS APPLICATIONS</b> .....	403
<i>Christian Huber; Benedikt Stein; Heinz Kalt</i>	
<b>FARADAY ISOLATORS BASED ON TSAG CRYSTAL FOR MULTIKILOWATT LASERS</b> .....	404
<i>A. V. Starobor; I. L. Snetkov; R. Yasuhara; E. A. Mironov; O. V. Palashov</i>	
<b>ACCURATE DETERMINATION OF THE TRANSPORT PARAMETERS OF LIGHT IN WHITE LIGHT EMITTING DIODES</b> .....	405
<i>Maryna L. Meretska; Wilbert L. Ijzerman; Gilles Vissenberg; Ad Lagendijk; Willem L. Vos</i>	

<b>HIGH PERFORMANCE NANOSTRUCTURED SILICON HETEROJUNCTION FOR WATER SPLITTING ON LARGE SCALES</b> .....	406
<i>M. Bonifazi ; H. C. Fu ; J. H. He ; A. Fratalocchi</i>	
<b>SINGLE PHOTON SOURCES FROM INP BASED COLLOIDAL QUANTUM DOTS</b> .....	407
<i>Vigneshwaran Chandrasekaran ; Michael D. Tessier ; Dorian Dupont ; Pieter Geiregat ; Edouard Brainis ; Zeger Hens</i>	
<b>FEMTOSECOND DYNAMICS OF OPTICAL NONLINEARITIES IN NANOCOMPOSITE FILMS HIGHLY DISPERSED WITH SEMICONDUCTOR CDSE QUANTUM DOTS</b> .....	408
<i>Yasuo Tomita ; Ryu-Ichi Yamagami ; Taka-Aki Jinzenji ; Shohei Sakuma ; Takuya Izuishi ; Qing Shen</i>	
<b>INVERTED TYPE-I CDS/CDSE CORE/CROWN COLLOIDAL QUANTUM RING</b> .....	409
<i>Sumanta Bose ; Savas Delikanli ; Mehmet Zafer Akgul ; Yuan Gao ; Weijun Fan ; Dao Hua Zhang ; Hilmi Volkan Demir</i>	
<b>TEMPERATURE DEPENDENCE OF TRANSITION CROSS SECTIONS IN RARE-EARTH-DOPED LASER MATERIALS</b> .....	410
<i>Yean-Sheng Yong ; Shannugam Aravazhi ; Sergio A. Vázquez-Córdova ; Jennifer L. Herek ; Sonia M. García-Blanco ; Markus Pollnau</i>	
<b>HOT-CARRIER GENERATION IN PLASMONIC SiO<sub>2</sub>-Au CORE-SHELL NANOPARTICLES</b> .....	411
<i>Jorge U. Salmon-Gamboa ; Pan Wang ; Mazhar E. Nasir ; Anatoly V. Zayats</i>	
<b>MOLECULAR PHOTONIC MATERIALS: CONTROLLING FABRICATION OF J-AGGREGATE THIN FILMS</b> .....	412
<i>Samuel Holder ; Lauren Matthews ; Lei Liu ; Ruth Oulton ; Sara Núñez-Sánchez</i>	
<b>ATOMIC STRUCTURAL CHARACTERIZATION OF MULTIPLE QUANTUM WELLS BY ABERRATION-CORRECTED STEM</b> .....	413
<i>C. N. Hsiao ; Y. W. Lin ; W. C. Chen ; P. K. Chiu ; C. P. Lin ; F. Z. Chen</i>	
<b>FIBER ALL OPTICAL PHASE SHIFTER AND SWITCH NEAR 1550 NM BASED ON TWO-DIMENSIONAL NANOMATERIAL TUNGSTEN DISULFIDE (WS<sub>2</sub>)</b> .....	414
<i>Kan Wu ; Chaoshi Guo ; Hao Wang ; Xiaoyan Zhang ; Jun Wang ; Jianping Chen</i>	
<b>DIRECT UV WRITTEN INTEGRATED PLANAR WAVEGUIDES FABRICATED WITH 213NM LIGHT</b> .....	415
<i>Paul C. Gow ; Rex H. S. Bannerman ; Christopher Holmes ; James C. Gates ; Peter G. R. Smith</i>	
<b>LASER WRITING OF POLYCRYSTALLINE SI RIDGE WAVEGUIDES</b> .....	416
<i>G. Martínez-Jiménez ; Y. Franz ; A. F. J. Runge ; M. Ceschia ; N. Heal ; S. Z. Oo ; A. Tarazona ; H. M. H. Chong ; A. C. Peacock ; S. Mailis</i>	
<b>INSERTION LOSS CHARACTERISATION FOR UV WRITTEN BRAGG GRATINGS IN FIBER AND PLANAR WAVEGUIDES</b> .....	417
<i>Rex H. S. Bannerman ; Matthew T. Posner ; Chris Holmes ; Paolo L. Mennea ; Peter G. R. Smith ; James C. Gates</i>	
<b>THE OPTICAL RESILIENCY OF DIRECT LASER WRITING 3D NANOLITHOGRAPHY PRODUCED MICROSTRUCTURES TO INTENSE IRRADIATION</b> .....	418
<i>Linas Jonušauskas ; Darius Gailevicius ; Roaldas Gadonas ; Andrius Melninkaitis ; Mangirdas Malinauskas</i>	
<b>INTEGRATED LOW DRIVE VOLTAGE ELECTRO-OPTIC BRAGG MODULATOR USING A PERIODICALLY POLED LITHIUM NIOBATE</b> .....	419
<i>Imed Mhaouech ; Virginie Coda ; Germano Montemezzani ; Mathieu Chauvet ; Laurent Guilbert</i>	
<b>GROWTH, SPECTROSCOPY AND HIGHLY-EFFICIENT LASER OPERATION OF A NOVEL TRIGONAL SILICATE CRYSTAL — YB<sup>3+</sup>:CA<sub>3</sub>NBGA<sub>3</sub>SI<sub>2</sub>O<sub>12</sub></b> .....	420
<i>Xuzhao Zhang ; Pavel Loiko ; Josep Maria Serres ; Xavier Mateos ; Junyu Ren ; Zhengping Wang ; Shiyi Guo ; Xinguang Xu ; Uwe Griebner ; Valentin Petrov ; Magdalena Aguiló ; Francesc Díaz</i>	
<b>WHISPERING GALLERY OPTICAL PARAMETRIC OSCILLATORS BECOME MATURE</b> .....	421
<i>Ingo Breunig</i>	
<b>LOW ABSORPTION COEFFICIENT MEASUREMENT OF LASER MEDIA EXPOSED TO HIGH POWER LASER RADIATION WITH TRANSPARENT PROBE PIEZOELECTRIC CRYSTAL</b> .....	422
<i>A. E. Korolkov ; O. A. Ryabushkin ; A. V. Konyashkin</i>	
<b>INDUSTRIAL GRADE FIBRE DELIVERY SYSTEM FOR PULSED LASERS</b> .....	423
<i>Marta Bassignana ; Alessio Califano ; Andrea Draglia ; Guido Perrone</i>	
<b>DESIGN AND FABRICATION OF POLYMER BASED DIFFRACTIVE OPTICAL ELEMENTS FOR LASER ILLUMINATED REAR AND BRAKE LIGHTS</b> .....	424
<i>M. S. Khan ; T. Uekermann ; M. Rahlves ; B. Roth ; R. Lachmayer</i>	
<b>OPTICALLY INDUCED BIREFRINGENCE AND SURFACE MASS TRANSPORT IN SU-8 PHOTORESIST DOPED WITH AZOBENZENE CHROMOPHORES</b> .....	425
<i>Benjamin Campos ; Edmund Witkowski ; Sven Bergmann ; David J. McGee</i>	
<b>TEMPERATURE EFFECTS IN CORE-PUMPED YB FIBERS AND THEIR CORRELATION TO PHOTODARKENING</b> .....	426
<i>Mar-Tin Leich ; Sylvia Jetschke ; Julia Fiebrandt ; Anka Schwuchow ; Sonja Unger ; Martin Becker ; Matthias Jäger</i>	
<b>POLYMER-BASED COMPOSITE ACTIVE FIBER DOPED WITH TM<sup>3+</sup> AND YB<sup>3+</sup> — TECHNOLOGY AND LUMINESCENT PROPERTIES IN VIS SPECTRAL RANGE</b> .....	427
<i>Ryszard Piramidowicz ; Anna Jusza ; Krzysztof Anders ; Ludwika Lipinska ; Malgorzata Gil ; Pawel Mergo</i>	
<b>TL<sub>4</sub>YX<sub>3</sub> (Y=SN, PB; X=S, TE) SINGLE CRYSTALS AS PROMISED MULTI-FUNCTIONAL OPTOELECTRONIC MATERIALS</b> .....	428
<i>M. Piasecki ; M. G. Brik ; I. V. Kityk ; I. E. Barchiy ; A. M. Al-Naggar ; A. A. Albassam</i>	
<b>SPATIALLY CONTROLLED DOPING OF SILVER IN CHALCOGENIDE GLASS BY THERMAL, PHOTO AND ELECTRON BEAM EFFECTS</b> .....	429
<i>Katrina A. Morgan ; Christopher Craig ; Andrea Ravagli ; Ed Weatherby ; Armen Aghajani ; Daniel W. Hewak</i>	
<b>DYNAMIC BANDGAP CONTROL IN A DOUBLE CLADDING TELLURITE PHOTONIC BANDGAP FIBER</b> .....	430
<i>Tong Hoang Tuan ; Tanaka Shunta ; Takenobu Suzuki ; Yasutake Ohishi</i>	

<b>TERNARY AND QUATERNARY GE-S-SE-SB-TE AMORPHOUS CHALCOGENIDE THIN FILMS FOR MID- INFRARED APPLICATIONS</b> .....	431
<i>J. -B. Dory ; C. Castro-Chavarria ; J. -B. Jager ; M. Bernard ; C. Sabbione ; M. Tessaire ; E. Henaff ; A. Coillet ; M. Meisterhans ; J. -M. Fedeli ; B. Cluzel ; P. Noé</i>	
<b>LINEAR AND NONLINEAR FOURIER-TRANSFORM SPECTROSCOPY IN THE VIBRATIONAL FINGERPRINT REGION WITH A BIREFRINGENT INTERFEROMETER</b> .....	432
<i>J. Réhault ; R. Borrego-Varillas ; A. Oriana ; C. Manzoni ; C. P. Hauri ; J. Helbing ; G. Cerullo</i>	
<b>TWO-DIMENSIONAL SPECTROSCOPY IN THE ULTRAVIOLET RANGE BY A BIREFRINGENT DELAY LINE</b> .....	433
<i>Rocio Borrego-Varillas ; Aurelio Oriana ; Lucia Ganzer ; Anton Trifonov ; Ivan Buchvarov ; Sandro De Silvestri ; Cristian Manzoni ; Giulio Cerullo</i>	
<b>REAL-TIME DETECTION OF SOLITON INTERACTIONS IN A FEW-CYCLE FEMTOSECOND OSCILLATOR</b> .....	434
<i>Georg Herink ; Felix Kurtz ; Bahram Jalali ; Daniel R. Solli ; Claus Ropers</i>	
<b>ELECTRO-OPTIC KERR EFFECT MEASUREMENT BASED ON CARRIER-ENVELOPE PHASE DEMODULATION</b> .....	435
<i>Tianli Feng ; Pascal Rustige ; Nils Raabe ; Günter Steinmeyer</i>	
<b>LIQUID CRYSTAL CELLS FOR PHASE AND GROUP DELAY CONTROL OF FEMTOSECOND PULSES — APPLICATION TO HYPERSPECTRAL IMAGING</b> .....	436
<i>Aurélié Jullien ; Umberto Bortolozzo ; Jean-Pierre Huignard ; Stéphanie Grabielle ; Nicolas Forget ; Stefania Residori</i>	
<b>60 DB DYNAMIC RANGE SINGLE-SHOT SPECTRAL MEASUREMENTS OF SPONTANEOUS MODULATION INSTABILITY</b> .....	437
<i>Mikko Närhi ; Juha Toivonen ; John M. Dudley ; Goëry Genty</i>	
<b>SPATIO-TEMPORAL CHARACTERIZATION OF OPTICAL WAVEFORMS</b> .....	438
<i>T. Witting ; G. Greening ; D. Walke ; P. Matia-Hernando ; T. Barillot ; J. P. Marangos ; J. W. G. Tisch ; A. Giree ; F. Schell ; F. J. Furch ; C. P. Schulz ; Marc J. J. Vrakking</i>	
<b>SELF-DIFFRACTION DISPERSION-SCAN AND ITS APPLICATION TO THE MEASUREMENT OF OVER OCTAVE-SPANNING PULSES IN THE SINGLE-CYCLE REGIME</b> .....	439
<i>Miguel Canhota ; Francisco Silva ; Rosa Weigand ; Helder Crespo</i>	
<b>MONOLITHIC SINGLE-SHOT DISPERSION-SCAN: A NEW TOOL FOR REAL-TIME MEASUREMENT AND OPTIMIZATION OF FEMTOSECOND PULSES</b> .....	440
<i>Francisco Silva ; Íñigo J. Sola ; Helder Crespo ; Rosa Romero ; Miguel Miranda ; Cord L. Arnold ; Anne L'Huillier ; Jose Trull ; Crina Cojocar</i>	
<b>INTERFEROMETRIC TIME-DOMAIN PTYCHOGRAPHY FOR ULTRAFAST PULSE CHARACTERIZATION</b> .....	441
<i>J. Hytti ; T. Witting ; E. Escoto ; G. Steinmeyer</i>	
<b>TIME-DOMAIN PTYCHOGRAPHY, RECONSTRUCTING TEMPORAL OBJECTS</b> .....	442
<i>Dirk-Mathys Spangenberg ; Michael Brüggmann ; Erich Rohwer ; Thomas Feuer</i>	
<b>ON PASSIVE MODE LOCKING IN THZ QUANTUM CASCADE LASERS</b> .....	443
<i>P. Tzenov ; R. Arkhipov ; I. Babushkin ; O. Sayadi ; N. N. Rosanov ; U. Morgner ; C. Jirauschek</i>	
<b>COMPACT 1.5-GHZ INTRA-BURST REPETITION RATE YB-DOPED ALL-PM-FIBER LASER SYSTEM FOR ABLATION-COOLED MATERIAL REMOVAL</b> .....	444
<i>Önder Akcaalan ; Hamit Kalaycioglu ; Parviz Elahi ; Petro Deminskiy ; F. Ö. Ilday</i>	
<b>ULTRASHORT PULSE LASER ABLATION THROUGH A MULTI-CORE FIBER</b> .....	445
<i>Eirini Kakkava ; Donald B. Conkey ; Thomas Lanvin ; Damien Loterie ; Nicolino Stasio ; Edgar Morales-Delgada ; Christophe Moser ; Demetri Psaltis</i>	
<b>GENERATION OF ELECTROMAGNETIC DOUGHNUTS</b> .....	446
<i>N. Pappasimakis ; T. A. Raybould ; P. Moitra ; V. A. Fedotov ; I. Youngs ; N. I. Zheludev</i>	
<b>AMPLIFICATION OF ULTRAFAST-ROTATING RING-SHAPED OPTICAL LATTICES</b> .....	447
<i>Keisaku Yamane ; Kohei Iwasa ; Kohei Kakizawa ; Kazuhiko Oka ; Yasunori Toda ; Ryuji Morita</i>	
<b>TUNABLE SOLITON-INDUCED RESONANT RADIATION BY THREE-WAVE MIXING</b> .....	448
<i>B. B. Zhou ; X. Liu ; H. R. Guo ; X. L. Zeng ; X. F. Chen ; H. P. Chung ; Y. H. Chen ; M. Bache</i>	
<b>ULTRASHORT PULSES CHARACTERIZATION BY QUANTUM STATE TOMOGRAPHY</b> .....	449
<i>Stefan Lerch ; André Stefanov</i>	
<b>COMPLETE TEMPORAL CHARACTERISATION OF HIGHLY CHIRPED ULTRABROADBAND OPTICAL PULSES</b> .....	450
<i>Adam S Wyatt ; Pedro Oliveira ; Ian O Musgrave</i>	
<b>OPTIMIZED OCTAVE-SPANNING TI:SAPPHIRE LASER OSCILLATOR CHARACTERIZED BY NOVEL TWO-DIMENSIONAL SHEARING INTERFEROMETRY</b> .....	451
<i>Shih-Hsuan Chia ; Fabian Scheiba ; Giulio M. Rossi ; Oliver D. Mücke ; Franz X. Kärtner</i>	
<b>GENERATION OF OCTAVE-SPANNING INTENSE SUPERCONTINUUM FROM YB:DOPED SOLID-STATE LASERS IN MULTIPLE THIN PLATES</b> .....	452
<i>Chih-Hsuan Lu ; Wei-Hsin Wu ; Shiang-He Kuo ; Yi-Hsun Tseng ; Chia-Lun Tsai ; Shang-Da Yang ; Ming-Chang Chen ; A. H. Kung</i>	
<b>HETERODYNE INTERFEROMETRY USING ACOUSTO-OPTIC FREQUENCY COMBS</b> .....	453
<i>Vicente Duran ; Côme Schnébelin ; Hugues Guillet De Chatellus</i>	
<b>HIGH RESOLUTION ON-SKY SPECTROSCOPY CALIBRATED WITH A PARTIALLY STABILIZED 15- GHZ ASTROCOMB FROM 550–890-NM</b> .....	454
<i>R. A. McCracken ; É. Depagne ; R. B. Kuhn ; N. Erasmus ; L. A. Crause ; D. T. Reid</i>	

<b>OPTO-OPTICAL MODULATOR FOR CEO CONTROL AND STABILIZATION IN AN YB:CALGO GHZ DIODE-PUMPED SOLID-STATE LASER</b> .....	455
<i>Hakobyan ; V. J. Wittwer ; K. Gürel ; P. Brochard ; S. Schilt ; A. S. Mayer ; U. Keller ; T. Südmeyer</i>	
<b>ELECTRONIC CONTROL OF THE MULTISCALE TIME DELAY BETWEEN TWO FEMTOSECOND AMPLIFIERS SEEDED BY FREE-RUNNING OSCILLATORS</b> .....	456
<i>Laura Antonucci ; Xavier Solinas ; Adeline Bonvalet ; Manuel Joffré</i>	
<b>HIDDEN CORRELATION IN THE CEP NOISE OF MODE-LOCKED LASERS</b> .....	457
<i>Nils Raabe ; Tianli Feng ; Mark Mero ; Haochen Tian ; Youjian Song ; Wolfgang Haensel ; Ronald Holzwarth ; Alexander Sell ; Armin Zach ; Günter Steinmeyer</i>	
<b>TOWARDS SELF-REFERENCING OF A VECSEL FREQUENCY COMB</b> .....	458
<i>Nayara Jornod ; Kutan Güret ; Valentin J. Wittwer ; Pierre Brochard ; Sargis Hakobyan ; Stéphane Schilt ; Dominik Waldburger ; Ursula Keller ; Thomas Südmeyer</i>	
<b>ALL-POLARIZATION-MAINTAINING MODE-LOCKED FIBER LASER BASED ON PLANAR LIGHTWAVE CIRCUIT (PLC) DEVICE</b> .....	459
<i>Chur Kim ; Dohyeon Kwon ; Dohyun Kim ; Sun Young Choi ; Sang Jun Cha ; Ki Sun Choi ; Dong-Il Yeom ; Fabian Rotermund ; Jungwon Ki</i>	
<b>BANDWIDTH SCALING OF NEAR-INFRARED ENHANCEMENT CAVITIES</b> .....	460
<i>N. Lilienfein ; C. Hofer ; S. Holzberger ; C. Matzer ; P. Zimmermann ; M. Trubetskov ; V. Fervali ; I. Pupezai</i>	
<b>FEW CYCLE, CEP STABILIZED, HIGH CONTRAST OPCPA SYSTEM WITH 5.5 TW PEAK POWER AND 53W AVERAGE POWER</b> .....	461
<i>Rimantas Budriunas ; Tomas Stanislauskas ; Jonas Adamonis ; Aidas Aleknavicius ; Gediminas Veitas ; Darius Gadonas ; Stanislovas Balickas ; Andrejus Michailovas ; Ariūnas Varanavicius</i>	
<b>235-MJ FEMTOSECOND INFRARED PULSE BY DC-OPA</b> .....	462
<i>Eiji J. Takahashi ; Yuxi Fu ; Katsumi Midorikawa</i>	
<b>TWO-CYCLE, 2.5 TW PULSE GENERATION AT 1.8 μM VIA FREQUENCY DOMAIN OPTICAL PARAMETRIC AMPLIFICATION</b> .....	463
<i>V. Gruson ; G. Ernotte ; P. Lassonde ; L. Di Mauro ; P. Corkum ; H. Ibrahim ; B. Schmidt ; F. Légaré</i>	
<b>HIGH-POWER OPTICAL PARAMETRIC AMPLIFIER DRIVEN BY A SUB-PS YB:YAG THIN-DISK SYSTEM</b> .....	464
<i>Alexander-Cornelius Heinrich ; Jonathan Fischer ; Dominik-Pascal Ertel ; Julian Jungwirth ; Daniele Brida ; Alfred Leitenstorfer</i>	
<b>MILLIJOULE 5 μM FEMTOSECOND OPCPA AT 1 KHZ REPETITION RATE</b> .....	465
<i>Lorenz Von Grafenstein ; Martin Bock ; Uwe Griebner ; Thomas Elsaesser</i>	
<b>HIGH-SPEED ADAPTIVE DEFORMABLE LENS FOR BOOSTING AN HIGH-ENERGY OPTICAL PARAMETRIC AMPLIFIER</b> .....	466
<i>Matteo Negro ; Martino Quintavalla ; Jacopo Mocci ; Anna G. Ciriolo ; Michele Devetta ; Riccardo Muradore ; Salvatore Stagira ; Caterina Vozi ; Stefano Bonora</i>	
<b>DRAMATIC BEAM STEERING BY KERR LENSING IN OPTICAL PARAMETRIC AMPLIFIERS</b> .....	467
<i>Emanuel Wittmann ; Henrik Hecht ; Eberhard Riedle</i>	
<b>BURST-MODE PUMPING SCHEME FOR LONGWAVE PARAMETRIC AMPLIFICATION</b> .....	468
<i>Ignas Astrauskas ; Edgar Kaksis ; Tobias Flöry ; Giedrius Andriukaitis ; Pavel Malevich ; Tadas Balciunas ; Audrius Pugžlys ; Andrius Baltuška</i>	
<b>WATT-LEVEL 50 FS PULSE GENERATION FROM THULIUM-DOPED ZBLAN FIBER AMPLIFIER SYSTEM</b> .....	469
<i>Yutaka Nomura ; Takao Fuji</i>	
<b>J-KAREN-P LASER FACILITY AT QST: HIGH CONTRAST, HIGH INTENSITY PETAWATT OPCPA/TI: SAPPHIRE HYBRID LASER SYSTEM</b> .....	470
<i>H. Kiriya ; M. Nishiuchi ; A. S. Pirozhkov ; Y. Fukuda ; H. Sakaki ; A. Sagisaka ; N. P. Dover ; K. Kondo ; K. Nishitani ; K. Ogura ; M. Mori ; Y. Miyasaka ; J. Koga ; T. Zh. Esirkepov ; Y. Hayaslii ; H. Kotald ; K. Huang ; N. Nakanii ; S. V. Bulanov ; M. Kando ; K. Kondo</i>	
<b>ORIGINAL TI:SA 10 KHZ FRONT-END DESIGN DELIVERING 17 FS, 170 MRAD CEP STABILIZED PULSES UP TO 7 W</b> .....	471
<i>A. Golinelli ; X. Chen ; E. Gontier ; B. Bussière ; O. Tcherbakoff ; P. D'Oliveira ; P. -M. Paul ; J. -F. Hergott</i>	
<b>MULTI-W, 100-KHZ, FEW-CYCLE MID-INFRARED SOURCE WITH SUB-100-MRAD SINGLE-SHOT CARRIER-ENVELOPE PHASE NOISE</b> .....	472
<i>Nicolas Thiré ; Raman Maksimenka ; Balint Kiss ; Clément Ferchaud ; Pierre Bizouard ; Eric Cormier ; Karoly Osvay ; Nicolas Forget</i>	
<b>ULTRA-BROADBAND OPTICAL PARAMETRIC CHIRPED-PULSE AMPLIFIER GENERATING 9.1 W AT 2.2 μM</b> .....	473
<i>N. Bigler ; C. R. Phillips ; J. Pupekis ; L. Gallmann ; H. Ishizuki ; T. Taira ; U. Keller</i>	
<b>HIGH-POWER MID-IR PICOSECOND PULSES TUNABLE BETWEEN 2.2 AND 2.4 μM</b> .....	474
<i>Ondrej Novák ; Michal Vyblecka ; Lukáš Roškot ; Martin Smrž ; Akira Endo ; Tomáš Mocek</i>	
<b>LIMITATION OF THE SHG AND THG EFFICIENCY AND BEAM BREAK-UP FOR FEMTOSECOND PULSES BY KERR LENSING</b> .....	475
<i>Emanuel Wittmann ; Simon Heimann ; Eberhard Riedle</i>	
<b>ULTRAFAST WAVELENGTH TUNING AND POWER SCALING OF A FEMTOSECOND NON-COLLINEAR OPTICAL PARAMETRIC OSCILLATOR (NOPO)</b> .....	476
<i>Alexander Pape ; Thomas Binhammer ; Yuliya Binhammer ; Oliver Prochnow ; Tino Lang ; Uwe Morgner</i>	
<b>GENERATION OF FAST-TUNABLE FEMTOSECOND VISIBLE RADIATION VIA INTRA-CAVITY SUM-FREQUENCY IN A HIGH-POWER ULTRA-BROADBAND NIR NOPO</b> .....	477
<i>Yuliya Binhammer ; Thomas Binhammer ; Tino Lang ; Alexander Pape ; Oliver Prochnow ; Ayhan Tajalli ; Uwe Morgner</i>	

<b>HIGH-POWER ULTRAFAST THIN-DISK OSCILLATORS: A PATH TOWARDS COMPACT HIGH-POWER OSCILLATOR DRIVEN ULTRAFAST SOURCES FROM XUV TO THZ</b> .....	478
<i>C. J. Saraceno</i>	
<b>A 57 W RADIALLY POLARIZED SESAM MODE-LOCKED THIN-DISK OSCILLATOR</b> .....	479
<i>Frieder Beirow ; Michael Eckerle ; Benjamin Dannecker ; Martin Rumpel ; Marwan Abdou Ahmed ; Thomas Graf</i>	
<b>THIN-DISK MULTIPASS AMPLIFIER DELIVERING 10 GW OF PEAK POWER</b> .....	480
<i>B. Dannecker ; J. Negel ; A. Loescher ; P. Oldorf ; S. Reichel ; R. Peters ; M. Abdou Ahmed ; T. Graf</i>	
<b>PEAK-POWER SCALING OF FEMTOSECOND SESAM-MODELOCKED YB:LU<sub>2</sub>O<sub>3</sub> THIN-DISK LASERS</b> .....	481
<i>I. J. Graumann ; A. Diebold ; F. Emaury ; B. Deppe ; C. R. Phillips ; M. Golling ; D. Bauer ; P. Heu ; D. Follman ; G. D. Cole ; M. Aspelmeyer ; D. Sutter ; C. Kränkel ; C. J. Saraceno ; U. Keller</i>	
<b>HIGH-SPEED AND HIGH-RESOLUTION TABLE-TOP COHERENT DIFFRACTIVE IMAGING — TOWARDS PTYCHOGRAPHY AND 3D TOMOGRAPHY</b> .....	482
<i>G. K. Tadesse ; R. Klas ; S. Demmler ; S. Hädrich ; I. Wahyutama ; M. Zürich ; M. Steinert ; C. Spielmann ; T. Pertsch ; A. Tünnemann ; J. Limpert ; J. Rothhardt</i>	
<b>TIME-RESOLVED VUV REFLECTION SPECTROSCOPY FOR SPATIO-TEMPORAL CHARACTERIZATION OF ULTRAFAST PLASMA FORMATION</b> .....	483
<i>Ryuji Itakura ; Hiroshi Akagi ; Yoriko Wada ; Tomohito Otobe</i>	
<b>ATTOSECOND STREAKING OF SOFT-X-RAY PULSES GENERATED BY A MID-IR LASER</b> .....	484
<i>T. Gaumnitz ; M. Huppert ; I. Jordan ; Y. Pertot ; A. Jain ; H. J. Wörner</i>	
<b>ATTOSECOND-STREAKING SPECTROSCOPY ON A LIQUID-WATER MICROJET</b> .....	485
<i>A. Jain ; R. Heider ; M. Wagner ; A. Duensing ; T. Gaumnitz ; I. Jordan ; J. Ma ; J. Riemensberger ; M. Mittermair ; W. Helml ; R. Kienberger ; H. J. Wörner</i>	
<b>SPATIALLY RESOLVED FOURIER TRANSFORM INTERFEROMETRY IN THE EXTREME ULTRAVIOLET</b> .....	486
<i>G. S. M. Jansen ; D. Rudolf ; L. Freisem ; A. De Beurs ; K. S. E. Eikema ; S. Witte</i>	
<b>ON THE COMPLEX STRUCTURES OF SPATIALLY RESOLVED XUV HIGH-ORDER-HARMONIC SPECTRA</b> .....	487
<i>F. Catoire ; A. Ferré ; O. Hort ; A. Dubrouil ; L. Quintard ; D. Descamps ; S. Petit ; F. Burgy ; E. Mével ; Y. Mairesse ; E. Constant</i>	
<b>PARAMETRIC AMPLIFICATION OF FEW-OPTICAL-CYCLE PULSES</b> .....	488
<i>Uwe Morgner ; Ayhan Tajalli ; Oliver Prochnow ; Jan Ahrens ; Stefan Rausch ; Thomas Binhammer</i>	
<b>A CEP-STABLE, FEMTOSECOND 8.5 μM SOURCE BASED ON INTRAPULSE DFG OF 2.1 μM PULSES</b> .....	489
<i>Ondrej Novák ; Peter R. Krogen ; Tobias Kroh ; Tomáš Mocek ; Franz X. Kärtner ; Kyung-Han Hong</i>	
<b>COMPACT 200 KHZ HHG SOURCE DRIVEN BY A FEW-CYCLE OPCPA</b> .....	490
<i>Chen Guo ; Anne Harth ; Yu-Chen Cheng ; Arthur Losquin ; Miguel Miranda ; Sara Mikaelsson ; Christoph Heyl ; Oliver Prochnow ; Jan Ahrens ; Uwe Morgner ; Anne L'Huillier ; Cord Arnold</i>	
<b>GENERATION OF A SINGLE UV PULSE FROM A NEAR-IR PULSE BURST</b> .....	491
<i>Edgar Kaksis ; Ignas Astrauskas ; Tobias Flöry ; Giedrius Andriukaitis ; Tadas Balciunas ; Audrius Pugžlys ; Egle Gabryté ; Linas Giniunas ; Andrius Baltuška ; Tenio Popmintchev</i>	
<b>MULTI-HARMONIC GENERATOR AND SYNTHESIZER FOR EXPERIMENTS IN TAILORED, INTENSE FEMTOSECOND LASER FIELDS</b> .....	492
<i>Pawel Wnuk ; Christian Burger ; Wilhelm F. Frisch ; Boris Bergues ; Tomasz Kaldas ; Matthias F. Kling</i>	
<b>GENERATION OF EXTREME ULTRAVIOLET VECTOR BEAMS FROM INFRARED LASER PULSES</b> .....	493
<i>Alex Turpin ; Julio San Román ; Antonio Picón ; Rokas Drevinskas ; Ausra Cerkauskaitė ; Peter G. Kazansky ; Charles G. Durfee ; Íñigo J. Sola ; Carlos Hernández-García</i>	
<b>FARADAY EFFECT USING HIGH ORDER HARMONICS FOR ULTRAFAST DEMAGNETIZATION APPLICATIONS</b> .....	494
<i>Carla Alves ; Guillaume Lambert ; Boris Vodungbo ; Emmanuelle Jal ; Jan Lüning ; Gregory Malinowski ; Victor Malka</i>	
<b>AMPLIFICATION OF INTENSE LIGHT FIELDS BY ‘BOUND STATES OF FREE ELECTRONS’</b> .....	495
<i>Mary Matthews ; Timm Bredtmann ; Alexander Patas ; Albrecht Lindinger ; Julien Gateau ; Sylvain Hermelin ; Jerome Kasparian ; Maria Richter ; Olga Smirnova ; Felipe Morales ; Jean-Pierre Wolf ; Misha Ivanov</i>	
<b>SUB-CYCLE EXTREME NONLINEARITIES INDUCED IN GAP BY ULTRASTRONG THZ FIELD</b> .....	496
<i>C. Vicario ; M. Shalaby ; C. P. Hauri</i>	
<b>TECHNICAL ADVANCES AND FUTURE PROSPECTS OF FIBER LASERS AND AMPLIFIERS</b> .....	497
<i>Andreas Tünnemann ; Jens Limpert</i>	
<b>FEMTOSECOND LEVEL TIMING JITTER FROM A TURN-KEY YB-FIBER ULTRAFAST LASER OSCILLATOR</b> .....	498
<i>Alexis Casanova ; Benoît Trophème ; Antoine Courjaud ; Giorgio Santarelli</i>	
<b>INDUSTRY-GRADE 100-FS HIGH ENERGY YB-DOPED AMPLIFIER WITH 3 COLOURS</b> .....	499
<i>M. Delaigüe ; G. Bonamis ; J. Nillon ; G. Machinet ; C. Hönninger ; E. Mottay</i>	
<b>EFFICIENT, HIGH-POWER, ALL-BULK SPECTRAL BROADENING IN A QUASI-WAVEGUIDE</b> .....	500
<i>Jonathan Brons ; Kilian Fritsch ; Marcus Seidel ; Vladimir Pervak ; Ferenc Krausz ; Oleg Pronin</i>	
<b>ALL-IN-FIBER POLARIZATION MAINTAINING TAPERED FIBER CARBON NANOTUBE ERBIUM FREQUENCY COMB WITH AN INTEGRATED ELECTRO-OPTIC MODULATOR</b> .....	501
<i>Sebastian Schwyer ; K. Kieu ; P. Putzer ; M. Hutterer ; T. Lamour ; N. Lenke ; U. Schreiber ; R. Kienberger</i>	
<b>DISPERSION-SCAN MEASUREMENTS OF FEW-CYCLE PULSES COMPRESSED WITH THE MULTIPLATE CONTINUUM PROCESS</b> .....	502
<i>Miguel Canhota ; Rosa Weigand ; Helder Crespo</i>	
<b>COST-EFFECTIVE MULTI-WAVELENGTH NEARLY TRANSFORM-LIMITED GAUSSIAN OPTICAL PULSE GENERATION BASED ON TIME LENS</b> .....	503
<i>Qiang Wang ; Wei Zhang ; Jian Xiong</i>	

<b>MEASURING A COMPLETE REACTION COORDINATE: WINDOWLESS OBSERVATION OF THE PHOTODISSOCIATION DYNAMICS OF CS<sub>2</sub></b> .....	504
<i>Adam D. Smith ; Emily Warne ; Daniel A. Horke ; Darren Bellshaw ; Cephise Cacho ; Alfred Jones ; Emma Springate ; Adam Kirrander ; Richard T. Chapman ; Russell S. Minns</i>	
<b>A COMPACT XUV BEAMLINE FOR TEMPORALLY AND SPECTRALLY RESOLVED STUDIES</b> .....	505
<i>L. Quintard ; V. Lorient ; A. Marciniak ; F. Catoire ; G. Karras ; C. Bordas ; F. Lépine ; E. Constant</i>	
<b>ULTRAFAST ALL-FIBER ERBIUM-DOPED RING LASER MODE-LOCKED BY HIGH-DENSITY WELL-ALIGNED SINGLE-WALLED CARBON NANOTUBES</b> .....	506
<i>Dmitriy A. Dvoretzkiy ; Stanislav G. Sazonkin ; Ilya O. Orekhov ; Igor S. Kudelin ; Alexey B. Pnev ; Valeriy E. Karasik ; Lev K. Denisov ; Sergey G. Lyapin ; Valeriy A. Davydov</i>	
<b>OPTIMIZATION OF A HIGHLY-CHIRPED DISSIPATIVE SOLITON FIBER OSCILLATOR OPERATING AT 1.55 μM</b> .....	507
<i>A. E. Bednyakova ; D. S. Kharenko ; I. S. Zhdanov ; E. V. Podivilov ; M. P. Fedoruk ; A. A. Apolonski ; S. K. Turitsyn ; S. A. Babin</i>	
<b>HIGH-ENERGY ULTRASHORT RAMAN PULSES GENERATED NEAR 1.3 μM IN EXTERNAL PHOSPHOSILICATE-FIBER CAVITY</b> .....	508
<i>Denis S. Kharenko ; Vlad D. Efremov ; Sergey A. Babin</i>	
<b>SUB-30 FS PULSE GENERATION FROM ALL-FIBER MOPA SOURCE THROUGH DISPERSION AND NONLINEARITY MANAGEMENT OF AMPLIFIER AND COMPRESSOR</b> .....	509
<i>Alexander A. Krylov ; Stanislav G. Sazonkin</i>	
<b>MODELING OF DISPERSION FLATTENED CHALCOGENIDE DOUBLE CLAD FIBERS FOR MID-IR INFRARED LIGHT GENERATION</b> .....	510
<i>Kenshiro Nagasaka ; Tong Hoang Tuan ; Takenobu Suzuki ; Yasutake Ohishi</i>	
<b>FEMTOSECOND LASER PULSE WRITTEN LONG PERIOD GRATINGS IN LARGE MODE AREA FIBERS</b> .....	511
<i>Maximilian Heck ; Ria G. Krämer ; Daniel Richter ; Thorsten A. Goebel ; Christian Matzdorf ; Andreas Tünnermann ; Stefan Nolte</i>	
<b>SECOND-ORDER CASCADING-ASSISTED CONTROLLABLE SUPERCONTINUUM GENERATION IN BIREFRINGENT MEDIA</b> .....	512
<i>Rosvaldas Šuminas ; Gintaras Tamošauskas ; Vytautas Jukna ; Arnaud Couairon ; Audrius Dubietis</i>	
<b>HIGH NUMERICAL APERTURE FOCAL SPOT DIAGNOSTIC AND OPTIMIZATION</b> .....	513
<i>Ivan Doudet ; Djamel Brahmī ; Benoit Wattellier</i>	
<b>MULTIOCTAVE SUPERCONTINUUM GENERATION IN BULK SOLID-STATE DIELECTRICS IN THE RANGE OF NEAR ZERO TO ANOMALOUS GROUP VELOCITY DISPERSION</b> .....	514
<i>Nail Garejev ; Gintaras Tamošauskas ; Audrius Dubietis</i>	
<b>MID-IR INFRARED SUPERCONTINUUM GENERATION IN A SUPERCRITICAL XENON FILLED HOLLOW-CORE FIBER BY PUMPING IN THE NORMAL DISPERSION REGIME</b> .....	515
<i>Md. Imran Hasan ; Nail Akhmediev ; Wonkeun Chang</i>	
<b>COMPACT HIGH REPETITION RATE FEMTOSECOND OPTICAL PARAMETRIC GENERATOR AND AMPLIFIER PUMPED BY FEMTOSECOND YB FIBER LASER</b> .....	516
<i>Saulius Frankinas ; Nerijus Rusteika ; Andrejus Michailovas</i>	
<b>WIDELY TUNABLE FEMTOSECOND NON-COLLINEAR OPTICAL PARAMETRIC OSCILLATOR (NOPO) IN VIS</b> .....	517
<i>Yuliya Binhammer ; Thomas Binhammer ; Fabian Placzek ; Bernhard Kreipe ; José Ricardo Andrade ; Tino Lang ; Ayhan Tajalli ; Uwe Morgner</i>	
<b>EFFICIENT FEMTOSECOND MID-IR (4–5 μM) AGS OPA PUMPED BY CR:FORSTERITE LASER</b> .....	518
<i>Ekaterina Migal ; Fedor Potemkin ; Vyacheslav Gordienko</i>	
<b>HIGH POWER CEP-STABLE 2 μM SOURCE BASED ON FIBER-LASER SEEDED INNOSLAB WITH 100-KHZ TO 1-MHZ REPETITION RATE</b> .....	519
<i>Marcel Neuhaus ; Pawel Wnuk ; Harald Fuest ; Johannes Schötz ; Vladimir Pervak ; Michael Trubetskov ; Eberhard Riedle ; Zsuzsanna Major ; Matthias F. Kling</i>	
<b>EXPERIMENTAL REALIZATION OF NONLINEAR POLARIZATION EVOLUTION MODE-LOCKING IN POLARIZATION MAINTAINING FIBERS</b> .....	520
<i>Jan Szczepanek ; Tomasz M. Kardas ; Czestaw Radzewicz ; Yuriy Stepanenko</i>	
<b>PASSIVELY MODE-LOCKED FEMTOSECOND TM:MGWO<sub>4</sub> LASER</b> .....	521
<i>Yicheng Wang ; Weidong Chen ; Lichen Zhang ; Haifeng Lin ; Zhoubin Lin ; Ge Zhang ; Fabian Rotermund ; Pavel Loiko ; Josep Maria Serres ; Xavier Mateos ; Uwe Griebner ; Valentin Petrov</i>	
<b>LONG-TERM STABILITY OF LOW PHASE NOISE ACTIVE HARMONICALLY MODE-LOCKED FIBRE LASER FOR TIMING DISTRIBUTION APPLICATIONS</b> .....	522
<i>Calum Hill ; Stephen T Lee ; Derryck T Reid ; Ghaya Baili</i>	
<b>TIME-DOMAIN MEASUREMENTS REVEAL SPATIAL ABERRATIONS IN A SUB-SURFACE TWO-PHOTON MICROSCOPE</b> .....	523
<i>M. Rutkauskas ; D. T. Reid ; J. Garduño-Mejía ; M. Rosete-Aguilar</i>	
<b>NEW GENERATION OF INGAAS-BASED SATURABLE ABSORBERS FOR ULTRAFAST FIBER LASERS</b> .....	524
<i>P. -H. Hanzard ; M. Tang ; L. Fang ; A. Haboucha ; I. Sagnes ; C. Bachelet ; T. Godin ; J. -L. Oudar ; A. Hideur</i>	
<b>SUB-200 FS MODE-LOCKED FIBER LASER WITH INN-BASED SESAM</b> .....	525
<i>Marco Jiménez-Rodríguez ; Francesca Gallazzi ; Juan Diego Ania-Castañón ; Eva Monroy ; Miguel González-Herráez ; Fernando B. Naranjo</i>	
<b>11–18 GHZ CONTINUOUSLY TUNABLE REPETITION RATE PICOSECOND LASER SOURCE AT 1030 NM</b> .....	526
<i>Adrien Aubourg ; Jérôme Lhermite ; Steve Hocquet ; Giorgio Santarelli ; Eric Cormier</i>	
<b>NEXT-GENERATION OF HIGH-POWER, SUB-300 FS LASERS WITH &gt;100 W FOR INDUSTRIAL APPLICATIONS</b> .....	527
<i>Matthias Kemtzer ; Martin Gorjan ; Dirk Mortag ; Florian Kienle ; Jürg Aus Der Au</i>	

<b>PULSE RETRIEVAL FROM CROPPED FROG TRACES .....</b>	<b>528</b>
<i>N. C. Becker ; F. Eilenberger ; T. Pertsch</i>	
<b>NONLINEAR REFRACTIVE INDEX MEASUREMENT BY TEMPORAL PHASE RECONSTRUCTION.....</b>	<b>529</b>
<i>Piotr Kabacinski ; Michal Wierzbicki ; Tomasz M. Kardas ; Czeslaw Radzewicz</i>	
<b>SIMULTANEOUS COMPRESSION AND CHARACTERISATION OF ULTRASHORT LASER PULSES VIA DISPERSION-SCAN WITH A GRATING PAIR.....</b>	<b>530</b>
<i>Adam S Wyatt ; Pedro Oliveira ; Ian O Musgrave</i>	
<b>SIMPLE AND HIGH-RESOLUTION TIMING JITTER MEASUREMENT METHOD OF OPTICAL FREQUENCY COMBS .....</b>	<b>531</b>
<i>Dohyeon Kwon ; Jungwon Kim</i>	
<b>ORTHOGONAL POLARIZATION FEMTOSECOND LASER FOR OPTICAL SAMPLING .....</b>	<b>532</b>
<i>Haitao Fan ; Yi Zhang ; Siyi Yao ; Wei Lu ; Xiaohong Yang</i>	
<b>GOUY PHASE EFFECTS IN ATTOSECOND PHOTOEMISSION DELAY MEASUREMENTS USING TRUNCATED BEAMS .....</b>	<b>533</b>
<i>Fabian Schlaepfer ; André Ludwig ; Matteo Lucchini ; Lamia Kasmi ; Mikhail Volkov ; Lukas Gallmann ; Ursula Keller</i>	
<b>VECTORIAL OPTICAL RECONSTRUCTION BY ATTOSECOND SPECTRAL INTERFEROMETRY .....</b>	<b>534</b>
<i>Paolo A. Carpeggiani ; Maurizio Reduzzi ; Antoine Comby ; Hamed Ahmadi ; Sergei Kühn ; Francesca Calegari ; Mauro Nisoli ; Fabio Frassetto ; Luca Poletto ; Dominik Hoff ; Joachim Ullrich ; Claus Dieter Schröter ; Robert Moshhammer ; Gerhard Paulus ; Giuseppe Sansone</i>	
<b>CHARACTERIZATION OF ATTOSECOND PULSES OF ARBITRARY POLARIZATION .....</b>	<b>535</b>
<i>Álvaro Jiménez-Galán ; Gopal Dixit ; Serguei Patchkovskii ; Olga Smirnova ; Felipe Morales ; Misha Ivanov</i>	
<b>HARNESSING THE ORBITAL ANGULAR MOMENTUM OF ATTOSECOND VORTICES THROUGH THE NONPERTURBATIVE NATURE OF HIGH HARMONIC GENERATION.....</b>	<b>536</b>
<i>Antonio Picón ; Laura Rego ; Julio San Román ; Luis Plaja ; Carlos Hernández-García</i>	
<b>GENERATION AND CHARACTERIZATION OF ISOLATED, CIRCULARLY POLARIZED, ATTOSECOND PULSES .....</b>	<b>537</b>
<i>Pei-Chi Huang ; Ren-Ting Huang ; Bo-Yao Huang ; Chih-Hsuan Lu ; Daniel D. Hickstein ; Jennifer L. Ellis ; Carlos Hernandez- Garcia ; A. H. Kung ; Shang-Da Yang ; Agnieszka Jaron-Becker ; Andreas Becker ; Henry C. Kapteyn ; Margaret M. Murnane ; Charles G. Durfee ; Ming-Chang Chen</i>	
<b>ATTOSECOND-PRECISION COHERENT CONTROL OF ELECTRON RECOMBINATION IN THE POLARIZATION PLANE .....</b>	<b>538</b>
<i>Ofir Kfir ; Sergey Zayko ; Christina Nolte ; Stefan Mathias ; Oren Cohen ; Claus Ropers</i>	
<b>EXCITATION OF UV HARMONICS IN SOLIDS AT 10 MHZ REPETITION RATE WITH INTENSE AND PHASE-LOCKED FEW-CYCLE PULSES .....</b>	<b>539</b>
<i>Patrick Storz ; Cornelius Beckh ; Jonas Tauch ; Marcel Wunram ; Alfred Leitenstorfer ; Daniele Brida</i>	
<b>POLARIZATION PROPERTY OF HIGH HARMONICS GENERATED FROM CRYSTALLINE SEMICONDUCTORS EXCITED BY MID-INFRARED PULSES .....</b>	<b>540</b>
<i>Nobuhisa Ishii ; Keisuke Kaneshima ; Yasushi Shinohara ; Kengo Takeuchi ; Kenichi L. Ishikawa ; Jiro Itatani</i>	
<b>HIGH-ORDER HARMONICS FROM BULK AND 2D CRYSTALS.....</b>	<b>541</b>
<i>Yong Sing You ; Georges Ndabashimiye ; Hanzhe Liu ; Yilei Li ; Tony F. Heinz ; David A. Reis ; Shambhu Ghimire</i>	
<b>EXTENDED SOLID-STATE THREE-STEP MODEL FOR HIGH-HARMONIC GENERATION FROM PERIODIC CRYSTALS.....</b>	<b>542</b>
<i>Takuya Ikemachi ; Yasushi Shinohara ; Takeshi Sato ; Junji Yumoto ; Makoto Kuwata-Gonokami ; Kenichi L. Ishikawa</i>	
<b>TAILORED HIGH-HARMONIC GENERATION IN NANOSTRUCTURED SEMICONDUCTORS .....</b>	<b>543</b>
<i>Murat Sivis ; Marco Taucer ; Kyle Johnston ; Giulio Vampa ; André Staudte ; Andrei. Yu. Naumov ; David M. Villeneuve ; Paul B. Corkum ; Claus Ropers</i>	
<b>HIGH HARMONIC GENERATION SPECTROSCOPY OF LASER INDUCED PHASE TRANSITIONS IN STRONGLY CORRELATED SYSTEMS .....</b>	<b>544</b>
<i>R. E. F. Silva ; Igor V. Blinov ; Alexey N. Rubtsov ; O. Smirnova ; Misha Ivanov</i>	
<b>ULTRAFAST OPTICAL FARADAY EFFECT IN TRANSPARENT SOLIDS .....</b>	<b>545</b>
<i>Michael S. Wismer ; Mark I. Stockman ; Vladislav S. Yakovlev</i>	
<b>DRIVING SOLIDS WITH INTENSE OPTICAL FIELDS: NEW ROUTES TO COHERENT ELECTRONICS .....</b>	<b>546</b>
<i>Eleftherios Goulielmakis</i>	
<b>ELECTRON DYNAMICS IN GRAPHENE REACHING THE LIGHT-FIELD-DRIVEN REGIME .....</b>	<b>547</b>
<i>Takuya Higuchi ; Christian Heide ; Konrad Ullmann ; Heiko B. Weber ; Peter Hommelhoff</i>	
<b>ATTOSECOND TIME-RESOLVED PHOTOELECTRON SPECTROSCOPY OF LIQUIDS.....</b>	<b>548</b>
<i>I. Jordan ; M. Huppert ; M. Pepe ; L. Seiffert ; M. Arbeiter ; T. Fennel ; H. J. Wörner</i>	
<b>HIGH-FLUX ATTOSECOND SOFT X-RAY BY A HIGH-ENERGY THREE-CHANNEL WAVEFORM SYNTHESIZER .....</b>	<b>549</b>
<i>Eiji J. Takahashi ; Bing Xue ; Yuxi Fu ; Katsumi Midorikawa</i>	
<b>CROSS-POLARIZED SUPERCONTINUUM GENERATION IN LINBO<sub>3</sub> FOR A MULTI-MJ WAVEFORM SYNTHESIZER.....</b>	<b>550</b>
<i>Haochuan Wang ; Aymen Alismail ; Gaia Barbieri ; Maximilian Wendl ; Ferenc Krausz ; Hanieh Fattahi</i>	
<b>TOWARDS ATTOSECOND XUV-PUMP XUV-PROBE MEASUREMENTS IN THE 100-EV REGION .....</b>	<b>551</b>
<i>B. Bergues ; D. E. Rivas ; M. Weidman ; A. A. Muschet ; W. Helml ; A. Guggenmos ; V. Pervak ; P. Matyba ; U. Kleineberg ; G. Marcus ; R. Kienberger ; D. Charalambidis ; P. Tzallas ; H. Schröder ; F. Krausz ; L. Veisz</i>	
<b>HIGH-ENERGY FEW-CYCLE PULSES FOR RELATIVISTIC LASER-MATTER INTERACTION: STATUS OF THE PETAWATT FIELD SYNTHESIZER.....</b>	<b>552</b>
<i>Zsuzsanna Major ; Alexander Kessel ; Mathias Krüger ; Vyacheslav E. Leshchenko ; Olga Lysov ; Andreas Münzer ; Sergei A. Trushin ; Ferenc Krausz ; Stefan Karsch</i>	



<b>X-RAY EMISSION FROM NANOSTRUCTURED TARGETS IRRADIATED BY A RELATIVISTICALLY INTENSE MID-IRREDATED DRIVER</b> .....	553
<i>Zhanna Samsonova ; Sebastian Höfer ; Ingo Uschmann ; Vural Kaymak ; Skirmantas Ališauskas ; Valentina Shumakova ; Audrius Pugžlys ; Lukas Trefflich ; Stefanie Kroker ; Carsten Roming ; Alexander Pukhov ; Andrius Baltuška ; Eckhart Förster ; Christian Spielmann ; Daniil Kartashov</i>	
<b>RELATIVISTIC-INTENSITY 1.3 OPTICAL CYCLE LASER PULSES AT 1KHZ FROM A STRETCHED HOLLOW-CORE-FIBER COMPRESSOR</b> .....	554
<i>F. Böhle ; M. Bocoum ; A. Vernier ; M. Lozano ; J. -P. Rousseau ; A. Jullien ; D. Gustas ; D. Guénot ; J. Faure ; M. Kovacs ; M. Kretschmar ; P. Simon ; U. Morgner ; T. Nagy ; R. Lopez-Martens</i>	
<b>IMAGING ALIGNED OCS MOLECULES BY LASER INDUCED ELECTRON DIFFRACTION</b> .....	555
<i>Andrea Trabattoni ; Sebastian Trippel ; Joss Wiese ; Terence Mullins ; Lars Dammann ; Philipp Wopperer ; Umberto De Giovannini ; Angel Rubio ; Jochen Küpper</i>	
<b>ENHANCED IONIZATION OF ACETYLENE IN INTENSE LASER PULSES IS DUE TO ENERGY UPSHIFT AND FIELD COUPLING OF MULTIPLE ORBITALS</b> .....	556
<i>S. Erattupuzha ; C. L. Covington ; A. Russakoff ; E. Lötstedt ; S. Larimian ; V. Hanus ; S. Bubin ; M. Koch ; S. Gräfe ; A. Baltuška ; X. Xie ; K. Yamanouchi ; K. Varga ; M. Kitzler</i>	
<b>ENERGETICALLY AND ANGULARLY RESOLVED NON-ADIABATIC RELAXATION DYNAMICS OF PAH MOLECULES FOLLOWING XUV EXCITATION</b> .....	557
<i>A. Marciniak ; V. Lorient ; G. Karras ; M. Hervé ; L. Quintard ; V. Despré ; A. Kuleff ; F. Catoire ; E. Constant ; F. Lépine</i>	
<b>ATTOSECOND DELAYS IN MOLECULAR PHOTOIONIZATION</b> .....	558
<i>Martin Huppert ; Inga Jordan ; Denitsa Baykushева ; Aaron Von Conta ; Hans Jakob Wörner</i>	
<b>TIME-RESOLVED X-RAY ABSORPTION SPECTROSCOPY WITH A WATER-WINDOW HIGH-HARMONIC SOURCE</b> .....	559
<i>Yoann Pertot ; Cédric Schmidt ; Mary Matthews ; Adrien Chauvet ; Martin Huppert ; Vit Svoboda ; Aaron Von Conta ; Andres Tehlar ; Denitsa Baykushева ; Jean-Pierre Wolf ; Hans Jakob Wörner</i>	
<b>HIGH PHOTON FLUX AND HIGH REPETITION RATE FIBER-LASER DRIVEN HHG</b> .....	560
<i>S. Hädrich ; T. Eidam ; A. Hoffmann ; S. Wunderlich ; F. Jansen ; D. Steil ; S. Mathias ; J. Limpert</i>	
<b>MILLIWATT-CLASS HIGH HARMONIC GENERATION WITH AN HIGH AVERAGE POWER SHORT WAVELENGTH FIBER LASER</b> .....	561
<i>R. Klas ; S. Demmler ; M. Tschernajew ; S. Hädrich ; Y. Shamir ; A. Tünnemann ; J. Rothhardt ; J. Limpert</i>	
<b>TOWARDS THE GENERATION OF ISOLATED ATTOSECOND PULSES WITH FEMTOSECOND ENHANCEMENT CAVITIES</b> .....	562
<i>Maximilian Hogner ; Tobias Saule ; Nikolai Lilienfein ; Vladimir Pervak ; Valer Tosa ; Ioachim Pupeza</i>	
<b>MULTIMODE QUASI-PHASE-MATCHING OF HIGH-ORDER HARMONIC GENERATION IN GAS-FILLED PHOTONIC CRYSTAL FIBERS</b> .....	563
<i>Patrick N. Anderson ; Florian Wiegand ; Fei Yu ; Daniel J. Treacher ; David T. Lloyd ; Peter J. Mosley ; Simon M. Hooker ; Ian A. Walmsley</i>	
<b>EFFICIENT 170 EV SOURCE DIRECTLY DRIVEN BY AN YB LASER AMPLIFIER</b> .....	564
<i>T. Balciunasi ; G. Fani ; A. Pugžlysi ; T. Kanai ; B. E. Schmidt ; V. Cardin ; F. Légaré ; V. Pervak ; A. Baltuška</i>	
<b>PROPOSAL OF CARRIER-ENVELOPE-PHASE STABLE ATTOSECOND PULSE GENERATION BASED ON LASER-PLASMA ELECTRON SOURCE</b> .....	565
<i>Z. Tibai ; Gy. Tóth ; A. Nagyvárad ; A. Sharma ; J. A. Fülöp ; G. Almási ; J. Hebling</i>	
<b>LOCALIZING HIGH-LYING RYDBERG WAVE PACKETS BY ORTHOGONALLY-POLARIZED TWO-COLOR LASER PULSES</b> .....	566
<i>Seyedreza Larimian ; Ji-Wei Geng ; Stefan Roither ; Daniil Kartashov ; Li Zhang ; Mu-Xue Wang ; Qihuang Gong ; Liang-You Peng ; Václav Hanus ; Christoph Lemell ; Shuhei Yoshida ; Joachim Burgdörfer ; Andrius Baltuška ; Markus Kitzler ; Xinhua Xie</i>	
<b>DISENTANGLING INTRACYCLE INTERFERENCES IN THE PHOTOELECTRON SPECTRUM OF ARGON USING ORTHOGONALLY POLARIZED, TWO-COLOUR LASER PULSES</b> .....	567
<i>Xinhua Xie ; Tian Wang ; Shaogang Yu ; Xuanyang Lai ; Stefan Roither ; Daniil Kartashov ; Xiaojun Liu ; Andre Staudte ; Markus Kitzler</i>	
<b>THE ION MICROSCOPE AS A TOOL FOR IMAGING THE ION DISTRIBUTION PRODUCED BY LINEAR AND NON-LINEAR PROCESSES AT THE FOCUS OF AN XUV BEAM</b> .....	568
<i>N. Tsatrafyllis ; B. Bergues ; H. Schroeder ; L. Veisz ; E. Skantzakis ; D. Gray ; B. Bodi ; S. Kuhn ; G. D. Tsakiris ; D. Charalambidis ; P. Tzallas</i>	
<b>SUB-CYCLE RESOLUTION OF FIELD-MOMENTUM TRANSFER IN NON-DIPOLE STRONG-FIELD IONIZATION</b> .....	569
<i>B. Willenberg ; J. Maurer ; B. W. Mayer ; C. R. Phillips ; L. Gallmann ; U. Keller</i>	
<b>MULTI-PHOTON DISSOCIATIVE IONIZATION OF D<sub>2</sub> PROBED BY A-FEW-PULSE ATTOSECOND PULSE TRAIN</b> .....	570
<i>Tomoya Okino ; Yusuke Furukawa ; Yasuo Nabekawa ; Katsumi Midorikawa</i>	
<b>ELECTRON SPIN POLARIZATION IN STRONG-FIELD IONIZATION AND THE EFFECT OF SPIN IN ATTOCLOCK MEASUREMENTS</b> .....	571
<i>Felipe Morales ; Jivesh Kaushal ; Alexander Hartung ; Maksim Kunitski ; Kevin Henrichs ; Alina Laucke ; Martin Richter ; Till Jahnke ; Anton Kalinin ; Markus Schöffler ; Lothar Schmidt ; Reinhardt Dörner ; Misha Ivanov ; Olga Smirnova</i>	
<b>EUV LIGHT BEAMS WITH FRACTIONAL ORBITAL ANGULAR MOMENTUM DRIVEN BY HIGH-ORDER HARMONIC GENERATION AND CONICAL REFRACTION</b> .....	572
<i>Alex Turpin ; Laura Rego ; Antonio Picón ; Julio San Román ; Luis Plaja ; Carlos Hernández-García</i>	
<b>HIGH ORDER HARMONIC GENERATION IN GRAPHENE</b> .....	573
<i>Oscar Zurrón ; Jose Manuel Iglesias ; Raúl Rengef ; María Jesús Martín ; Luis Plaja</i>	

<b>INVESTIGATION OF HIGH HARMONIC GENERATION USING A HIGH-POWER, 5-FS LASER IN A LOOSE-FOCUSING GEOMETRY</b> .....	574
<i>B. Major ; D. E. Rivas ; B. Bergues ; M. Weidman ; A. Muschet ; H. Schröder ; Cs. P. Korös ; E. Balogh ; K. Kovács ; V. Tosa ; F. Krausz ; L. Veisz ; K. Varjú</i>	
<b>ELLIPTICALLY POLARIZED HIGH-ORDER HARMONICS GENERATED IN ALIGNED CO<sub>2</sub> MOLECULES</b> .....	575
<i>Emmanouil Skantzakis ; Stefanos Chatziathanasiou ; Paolo A. Carpegiani ; Giuseppe Sansone ; Arjun Nayak ; David Gray ; Paraskevas Tzallas ; Dimitris Charalambidis ; Edouard Hertz ; Olivier Faucher</i>	
<b>ROBUST ENHANCEMENT OF HIGH HARMONIC GENERATION VIA ATTOSECOND CONTROL OF IONIZATION</b> .....	576
<i>Barry D. Bruner ; Oren Pedatzur ; Michael Krüger ; Gal Orenstein ; Doron Azoury ; Nirit Dudovich</i>	
<b>HIGH HARMONIC GENERATION IN GAS-FILLED PHOTONIC CRYSTAL FIBERS</b> .....	577
<i>Florian Wiegandt ; Patrick N. Anderson ; Fei Yu ; Daniel J. Treacherr ; David T. Lloyd ; Peter J. Mosley ; Simon M. Hooker ; Ian A. Walmsley</i>	
<b>OPTICAL LASING DURING LASER FILAMENTATION IN THE NITROGEN MOLECULAR ION: RO-VIBRATIONAL INVERSION</b> .....	578
<i>Maria Richter ; Felipe Morales ; Michael Spanner ; Olga Smirnova ; Misha Ivanov</i>	
<b>13MJ SUB-THREE OPTICAL CYCLE 3.9-UM PULSES THROUGH HOLLOW-CORE-WAVEGUIDE COMPRESSION</b> .....	579
<i>G. Fan ; T. Balciunas ; S. Ališauskas ; V. Shumakova ; A. Pugžlys ; A. Mitrofanov ; D. Sidorov ; A. M. Zheltikov ; B. E. Schmidt ; F. Légaré ; A. Baltuska</i>	
<b>DISCRIMINATING BETWEEN THE ROLE OF PHASE MATCHING AND THAT OF THE SINGLE-ATOM RESPONSE IN RESONANCE PLASMA-PLUME HIGH HARMONIC GENERATION</b> .....	580
<i>Noa Rosenthal ; Gilad Marcus</i>	
<b>HIGH-HARMONIC SPECTROSCOPY WITH TWO-COLOR COUNTER-ROTATING BI-CIRCULAR FIELDS</b> .....	581
<i>David Ayuso ; Olga Smirnova</i>	
<b>REAL-TIME CHARACTERISATION OF PROFILES OF LASER WAKEFIELD AND ELECTRONS ACCELERATED BY FEW-CYCLE 1 KHZ OCPA SYSTEM</b> .....	582
<i>Vidmantas Tomkus ; Valdas Girdauskas ; Lukas Rimgaila ; Gediminas Raciukaitis</i>	
<b>TOWARDS MULTI-MJ, OPCPA-BASED FIELD SYNTHESIZER</b> .....	583
<i>Ayman Alismail ; Haochuan Wang ; Abdallah M. Azzeer ; Ferenc Krausz ; Hanieh Fattahi</i>	
<b>ATTOSECOND CONTROL OF SPIN POLARIZATION IN ELECTRON-ION RECOLLISION DRIVEN BY INTENSE TAILORED FIELDS</b> .....	584
<i>David Ayuso ; Álvaro Jiménez-Galán ; Felipe Morales ; Misha Ivanov ; Olga Smirnova</i>	
<b>GENERATION AND CHARACTERIZATION OF SURFACE HIGH HARMONICS WITH A FEW CYCLE LASER — FIRST RESULTS AND FUTURE PLANS</b> .....	585
<i>Olga Lysov ; Vyacheslav E. Leshchenko ; Alexander Kessel ; Mathias Krüger ; Andreas Münzer ; Sergei A. Trushin ; Zsuzsanna Major ; Ferenc Krausz ; Stefan Karsch</i>	
<b>IMAGING FOURIER SPECTROSCOPY FOR NONLINEAR DELAY MEASUREMENTS</b> .....	586
<i>Christoph Leithold ; Jan Reislöhner ; Adrian N. Pfeiffer</i>	
<b>BROADBAND PICOSECOND-PUMPED OPCPA DELIVERING 5 TW, SUB-7 FS PULSES WITH EXCELLENT TEMPORAL CONTRAST</b> .....	587
<i>A. Kessel ; V. E. Leshchenko ; M. Krüger ; O. Lysov ; A. Münzer ; A. Weigel ; V. Pervak ; M. Trubetskoy ; S. A. Trushin ; Zs. Major ; F. Krausz ; S. Karsch</i>	
<b>LASER INDUCED ALIGNMENT AND ORIENTATION OF CONFORMER AND QUANTUM STATE SELECTED GAS-PHASE MOLECULES AND THEIR APPLICATIONS</b> .....	588
<i>Andrea Trabatoni ; Thomas Kierspel ; Melby Johny ; Evangelos Karamatskos ; Ruth Livingstone ; Terence Mullins ; Joss Wiese ; Sebastian Trippel ; Jochen Küpper</i>	
<b>CLUSTER SIZE DEPENDENCE OF HIGH-ORDER HARMONIC GENERATION</b> .....	589
<i>Yin Tao ; Rob Hagmeijer ; Bert Bastiaens ; Siew Jean Goh ; Peter Van Der Slot ; Sandra Biedron ; Stephen Milton ; Klaus Boller</i>	
<b>IMPACT OF HIGH CONTRAST RATIO ON 17.4 KEV LASER-BASED K<math>\alpha</math> SOURCE FOR INTENSITIES 10<sup>16</sup>–10<sup>19</sup> W/CM<sup>2</sup>: A FOOT PRINT OF INTERACTION MECHANISMS</b> .....	590
<i>Y. Azamoun ; V. Tcheremiskine ; A. Ferré ; R. Clady ; L. Charmasson ; O. Utéza ; M. Sentis</i>	
<b>ION ACCELERATION EXPERIMENT BY HIGH INTENSITY (10<sup>22</sup> WCM<sup>-2</sup>), HIGH CONTRAST (10<sup>11</sup>) J-KAREN-P LASER SYSTEM AT QST</b> .....	591
<i>M. Nishiuchi ; H. Kiriya ; A. S. Pirozhkov ; H. Sakaki ; Y. Fukuda ; N. P. Dover ; K. Nishitani ; T. Miyahara ; A. Sagisaka ; M. A. Alkhimova ; T. A. Pikuz ; A. Ya. Faenov ; K. Ogura ; T. Zh. Esirkepov ; K. Kondo ; Y. Watanabe ; J. K. Koga ; S. V. Bulanov ; M. Kando ; K. Kondo</i>	
<b>TRANSMISSION DIFFUSE IMAGING WITH A SPAD CAMERA</b> .....	592
<i>Alessandro Boccalini ; Francesco Tonolini ; Jonathan Leach ; Robert Henderson ; Daniele Faccio</i>	
<b>A FULLY INCOHERENT, OPTO-ELECTRONIC, AMPLIFIED SPONTANEOUS EMISSION-BASED LIGHT SOURCE FOR CLASSICAL GHOST IMAGING</b> .....	593
<i>Sébastien Blumenstein ; Wolfgang Elsäber</i>	
<b>MULTISPECTRAL INTERFEROMETRIE ON-CHIP MICROSCOPY FOR BIOSENSING</b> .....	594
<i>Roland A. Terborg ; Josselin Pello ; Ilaria Mannelli ; Juan P. Torres ; Valerio Pruneri</i>	
<b>LIGHT-FIELD CAMERA BASED ON A HEXAGONAL ARRAY OF NANOSTRUCTURED GRIN MICROLENSSES</b> .....	595
<i>Rafal Kasztelaniec ; Adam Filipkowski ; Dariusz Pysz ; Andrew J. Waddie ; Mohammad R. Taghizadeh ; Ryszard Buczynski</i>	
<b>WAVEFRONT MODULATION IN SUBAPERTURES OF ZONAL SENSOR: A NEW APPROACH FOR HYBRID SLOPE AND CURVATURE WAVEFRONT SENSING</b> .....	596
<i>Ke Liu ; Xiaopeng Wang ; Yanqiu Li</i>	

<b>TEACHING AN OLD LASER NEW TRICKS: SOLVING THE INVERSE SCATTERING PROBLEM RAPIDLY</b> .....	597
<i>Chene Tradonsky ; Ronen Chriki ; Vishwa Pal ; Gilad Barach ; Asher A. Friesem ; Nir Davidson</i>	
<b>NONLINEAR SPECTROSCOPY WITH FEW-CYCLE PULSES IN MID-INFRARED: MAPPING THE ELECTRON BAND STRUCTURE BY INTRABAND HIGH-HARMONIC GENERATION IN SOLIDS</b> .....	598
<i>E. A. Stepanov ; A. A. Lanin ; A. B. Fedotov ; A. M. Zheltikov</i>	
<b>OPTICAL DETECTION OF MAGNETIC RESONANCE IN NITROGEN VACANCY CENTRE ENSEMBLES IN BULK DIAMOND USING AN OFF-RESONANT PROBE LASER BEAM</b> .....	599
<i>C D Macrae ; E. Fraczek ; M E Newton ; H. Dhillon ; A. Bennett ; M. Markham ; P. Diggie ; B G Breeze ; M. Dale ; V. Savitski ; P F Griffin ; A. Kemp ; E. Riis ; G. McConnell</i>	
<b>BROADBAND PUMP-PROBE SPECTROSCOPY AT 20-MHZ MODULATION FREQUENCY WITH FOURIER-TRANSFORM DETECTION</b> .....	600
<i>Fabrizio Preda ; Antonio Perri ; Daniele Viola ; Sandro De Silvestri ; Giulio Cernilo ; Dario Polli</i>	
<b>WATER DROPLET QUANTIFICATION IN STEAM USING ABSORPTION SPECTROSCOPY TECHNIQUE COMBINED WITH LIGHT SCATTERING TECHNIQUE</b> .....	601
<i>K T Abdul Nasir ; N J Vasa ; S. Satyanarayanan</i>	
<b>INFRARED FINGERPRINT-REGION AEROSOL SPECTROSCOPY</b> .....	602
<i>L. Maidment ; R. J. Clewes ; M. D. Bowditch ; C. R. Howle ; D. T. Reid</i>	
<b>IDENTIFICATION OF BLACK PLASTICS USING AN UPCONVERSION BASED MID-INFRARED IMAGING SPECTROGRAPH</b> .....	603
<i>Lasse Hogstedt ; Jeppe Seidelin Dam</i>	
<b>SPECTRAL TUNING OF DIRECTIONAL SCATTERING FOR HIGH PRECISION POSITION SENSING</b> .....	604
<i>Ankan Bag ; Martin Neugebauer ; Pawel Wozniak ; Gerd Leuchs ; Peter Banzer</i>	
<b>MULTISCALE LENSLESS VISUAL POSITION SENSING BY DIGITAL HOLOGRAPHY</b> .....	605
<i>Maxime Jacquot ; Miguel A. Asmad Vergara ; Guillaume Laurent ; Patrick Sandoz</i>	
<b>PISTON AND TILT INTERFEROMETRY FOR SEGMENTED WAVE FRONT SENSING</b> .....	606
<i>Maxime Deprez ; Cindy Bellanger ; Laurent Lombard ; William Boucher ; Benoit Wattellier ; Jérôme Primot</i>	
<b>FEMTOSECOND OPTICAL METROLOGY APPLIED TO ASTEROID REDIRECTION</b> .....	607
<i>R. L. Fork</i>	
<b>RECENT ADVANCES IN QUARTZ-ENHANCED PHOTOACOUSTIC SENSORS EMPLOYING CUSTOM TUNING FORK OPERATING AT THE FIRST OVERTONE FLEXURAL MODE</b> .....	608
<i>Angelo Sampaolo ; Pietro Patimisco ; Huadan Zheng ; Marilena Giglio ; Lei Dong ; Frank K. Tittel ; Vincenzo Spagnolo</i>	
<b>IN-SITU LASER MEASUREMENT OF OXYGEN CONCENTRATION AND FLUE GAS TEMPERATURE UTILIZING CHEMICAL REACTION KINETICS</b> .....	609
<i>Jan Viljanen ; Tapio Sorvajärvi ; Juha Toivonen</i>	
<b>MID-INFRARED DUAL-COMB SPECTROSCOPY FOR REAL-TIME GAS ANALYSIS WITH AN OPTICAL PARAMETRIC OSCILLATOR</b> .....	610
<i>Julien Mandon ; Simona M. Cristescu ; Frans J. M. Harren</i>	
<b>LASER-BASED GAS SENSING OF MULTIPLE SAMPLES USING MULTIPLEXING IN RADIO FREQUENCY DOMAIN</b> .....	611
<i>Michal Nikodem ; Piotr Jaworski</i>	
<b>A NOVEL MID-INFRARED GAS SENSOR BASED ON MUTUALLY COUPLED QUANTUM CASCADE LASERS</b> .....	612
<i>Andreas Herdt ; Adonis Bogris ; Dimitris Syvridis ; Wolfgang Elsäber</i>	
<b>ALL-FIBER MOLECULAR FREQUENCY REFERENCE AT 2 μM BASED ON A VERSATILE LASER MODULATION SIDEBAND LOCKING AND A HOLLOW-CORE FIBER GAS CELL</b> .....	613
<i>Stéphane Schilt ; Renaud Matthey ; Kenny Hey Tow ; Luc Thévenaz ; Thomas Südmeyer</i>	
<b>MID-INFRARED DUAL-COMB SPECTROSCOPY WITH MICROWAVE-REFERENCED WAVELENGTH CALIBRATION</b> .....	614
<i>O. Kara ; Z. Zhang ; T. Gardiner ; D. T. Reid</i>	
<b>LASER FREQUENCY COMBS FOR MOLECULAR SPECTROSCOPY</b> .....	615
<i>Nathalie Picqué</i>	
<b>CAVITY-ENHANCED CONTINUOUS-FILTERING VERNIER SPECTROSCOPY AT 3.3 μM USING A FEMTOSECOND OPTICAL PARAMETRIC OSCILLATOR</b> .....	616
<i>Amir Khodabakhsh ; Lucile Rutkowski ; Jérôme Morville ; Alexandra C. Johansson ; Grzegorz Sobon ; Aleksandra Foltynowicz</i>	
<b>HIGH-RESOLUTION SPECTROSCOPY ON A MICROMETRIC LAYER OF MOLECULAR VAPOR</b> .....	617
<i>J. Lukusa Mudiayi ; B. Darquié ; S. K. Tokunaga ; P. Chaves De Souza Segundo ; I. Maurin ; J. R. Rios Leite ; D. Bloch ; A. Laliotis</i>	
<b>FIELD-RESOLVED SPECTROSCOPY IN THE MOLECULAR FINGERPRINT REGION</b> .....	618
<i>Ioachim Puppeza ; Marinus Hubert ; Wolfgang Schweinberger ; Michael Trubetskov ; Syed A. Hussain ; Lenard Vamos ; Oleg Pronin ; Florian Habel ; Vladimir Pervak ; Nicholas Karpowicz ; Ernst Fill ; Alexander Apolonski ; Mihaela Zigman ; Abdallah M. Azzeer ; Ferenc Krausz</i>	
<b>RADIOCARBON MEASUREMENTS WITH MID-INFRARED SCAR SPECTROSCOPY</b> .....	619
<i>I. Galli ; S. Bartalini ; M. Barucci ; P. Gancio ; G. Giusfredi ; D. Mazzotti ; N. Akikusa ; L. Romano ; F. D'Agostino ; M. E. Fedi ; P. A. Mandò ; P. De Natale</i>	
<b>DYNAMIC ENHANCEMENT OF RADIOLUMINESCENCE IN SOLAR BLIND SPECTRAL REGION</b> .....	620
<i>Thomas H. -G. Kerst ; Johan Sand ; Juha Toivonen</i>	
<b>SINGLE-MODE NANOSECOND TI:SAPPHIRE LASER FOR HIGH RESOLUTION TWO-PHOTON ABSORPTION LASER INDUCED-FLUORESCENCE (TALIF)</b> .....	621
<i>Daniil Murinov ; Christophe Biondello ; Jean-Paul Booth ; Oliver Guaitella ; Pierre Lottigier ; Cyril Drag</i>	

<b>AN FPGA-BASED LOCKING SYSTEM FOR ACETYLENE HYPERFINE LINE</b> .....	622
<i>Fatemeh Yazdandoust ; Herve Tatenguem ; Tobias Milde ; Marc Strohwalde ; Alvaro Jimenez ; Christian Assmann ; Niklas Staacke ; Joachim Sacher</i>	
<b>EXPERIMENTAL TEST OF THE DISTRIBUTION OF ATOMIC TRAJECTORIES AT GRAZING INCIDENCE IN A MICROMETRIC THIN VAPOUR CELL</b> .....	623
<i>Petko Todorov ; Daniel Bloch</i>	
<b>RECENT ADVANCES OF MULTISPECIES MID-IR SPECTROSCOPY FOR MOBILE APPLICATIONS</b> .....	624
<i>Béla Tuzson ; Morten Hundr ; Herbert Looser ; Mehran Shahmohammadi ; Martin J. Süess ; Manuel Graf ; Filippos Kapsalidis ; Chang Liu ; Oleg Aseev ; Philipp Scheidegger ; Jérôme Faist ; Lukas Emmenegger</i>	
<b>SELF-CALIBRATING D-SCAN: A VERSATILE TECHNIQUE FOR MEASURING ULTRASHORT LASER PULSES USING AN ARBITRARY PULSE COMPRESSOR</b> .....	625
<i>Benjamin Alonso ; Ñiño J. Sola ; Warein Holgado ; Helder Crespo</i>	
<b>NOVEL OPCPA BASED SOURCE FOR BROADBAND HIGH RESOLUTION SUM FREQUENCY GENERATION SPECTROSCOPY</b> .....	626
<i>Rokas Danilevicius ; Audrius Zaukevicius ; Robertas Kananavicius ; Regimantas Januškevicius ; Nerijus Rusteika</i>	
<b>LASER LINEWIDTH OPTIMIZATION IN A FEEDBACK LOOP</b> .....	627
<i>Pierre Brochará ; Slawomir Bilicki ; Atif Shehzad ; Stéphane Schilt ; Thomas Südmeyer</i>	
<b>COMPACT METROLOGICAL FREQUENCY COMB STABILIZED WITH OPTICAL INJECTION LOCKING ASSISTED BY LONG-TERM OPTOELECTRONIC CORRECTION</b> .....	628
<i>Amine Chaouche Ramdane ; Pierre Grüning ; Vincent Roncin ; Frédéric Du-Burck</i>	
<b>INTENSITY NOISE IN MID-IR FREQUENCY COMBS BASED ON DIFFERENCE FREQUENCY GENERATION</b> .....	629
<i>Vinicius Silva De Oliveira ; Axel Rühl ; Ingmar Hartl</i>	
<b>ULTRA-FAST AND CONTINUOUS CONTROL OF THE FOCUS POINT OF A LASER BEAM</b> .....	630
<i>Pauline Boucher ; Nicolas Barré ; Olivier Pinel ; Guillaume Labroille ; Nicolas Treps</i>	
<b>METASURFACE-ENHANCED INFRARED SPECTROSCOPY: FROM PROTEIN DETECTION TO CELLS DIFFERENTIATION</b> .....	631
<i>Shourya Datta Gupta ; Glen Kelp ; Nihal Arju ; Stanislav Emelianov ; Gennady Shvets</i>	
<b>SENSITIVITY ENHANCEMENT OF AN INTENSITY-BASED PHOTONIC CRYSTAL BIOSENSOR USING A LASER EXCITATION SOURCE</b> .....	632
<i>Moritz Paulsen ; Eralp Altin ; Sabrina Jahns ; Martina Gerken</i>	
<b>SUBWAVELENGTH NANOPHOTONIC STRUCTURES FOR INTEGRATION, SENSING AND SPECTROSCOPY</b> .....	633
<i>P. Cheben ; J. H. Schmid ; R. Halir ; A. Sánchez-Postigo ; A. Ortega-Moñux ; G. Wangüemert-Pérez ; I. Molina- Fernández ; J. M. Lluque-Gonzalez ; J. D. Sarmiento-Merenguel ; D. -X. Xu ; S. Janz ; J. Lapointe ; S. Wang ; M. Vachon ; D. Benedikovic ; C. A. Ramos ; H. Podmore ; R. Lee ; A. Scott ; A. Velascom ; J. Litvik ; M. Dado</i>	
<b>INVESTIGATION OF PROTEIN ADSORPTION FOR BIOSENSORS BASED ON INK-JET PRINTED ACTIVE MICRODISK RESONATOR</b> .....	634
<i>Cong Chen ; Jifeng Li ; Shintaro Mitsui ; Soichiro Ryu ; Yuya Mikami ; Naoya Nishimura ; Hiroaki Yoshioka ; Yuji Oki</i>	
<b>LAB ON FIBER TECHNOLOGY: ADDING NEW FUNCTIONALITES TO OPTICAL FIBERS</b> .....	635
<i>Andrea Cusano</i>	
<b>EXTREME ENVIRONMENT REFRACTOMETERS DESIGNED IN INTEGRATED OPTICAL FIBRE</b> .....	636
<i>Christopher Holmes ; Alexander Jantzen ; Stephen G Lynch ; Paul C Gow ; Teresa I Ferreira ; Peter G R Smith</i>	
<b>NON-CONTACT DETECTION OF NANO-SCALE STRUCTURES USING OPTICAL NANOFIBER</b> .....	637
<i>Hironaga Maruya ; Yasuko Oe ; Hideaki Takashima ; Azusa N. Hattori ; Hidekazu Tanaka ; Shigeki Takeuchi</i>	
<b>AN INTERFEROMETRIC FIBER-OPTIC GYROSCOPE SYSTEM BASED ON AN APPLICATION SPECIFIC PHOTONIC INTEGRATED CIRCUIT</b> .....	638
<i>Stanislaw Stopinski ; Anna Jusza ; Ryszard Piramidowicz</i>	
<b>REAL-TIME CHARACTERISATION OF THE GYROSCOPIC SHIFT IN A BIDIRECTIONAL HYBRID MODE-LOCKED ERBIUM-DOPED FIBRE LASER</b> .....	639
<i>Maria Chernysheva ; Srikanth Sugavanam ; Sergei Sukhanov ; Sergei Turitsyn</i>	
<b>COHERENT FIBRE OPTIC SENSORS FOR ULTRA-ACOUSTIC LAMB WAVE DETECTION IN THIN METALLIC SLAB</b> .....	640
<i>Marco Mattarei ; Claudio Sbaruffatti ; Jacopo Morosi ; Maddalena Ferrario ; Pierpaolo Boffi</i>	
<b>ACOUSTO-OPTIC INTERACTION IN POLYIMIDE COATED OPTICAL FIBERS</b> .....	641
<i>E. P. Alcusa-Sáez ; A. Diez ; W. Margulis ; L. Norin ; M. V. Andrés</i>	
<b>SINGLE LASER-BEAM GENERATED SUB-DOPPLER TRANSPARENCIES IN RB-FILLED KAGOME HC-PCF</b> .....	642
<i>Ximeng Zheng ; Benoît Debord ; Jenny Jouin ; Philippe Thomas ; Frédéric Jérôme ; Fetah Benabid</i>	
<b>DISTRIBUTED TEMPERATURE AND STRAIN SENSING WITH HIGH ORDER STIMULATED BRILLOUIN SCATTERING</b> .....	643
<i>Victor Lambin Iezzi ; Sébastien Loranger ; Raman Kashyap</i>	
<b>DOUBLE SLOPE-ASSISTED BRILLOUIN OPTICAL CORRELATION DOMAIN ANALYSIS</b> .....	644
<i>Jacopo Morosi ; Maddalena Ferrario ; Pierpaolo Boffi ; Mario Martinelli</i>	
<b>TENSILE STRAIN DEPENDENCE OF BRILLOUIN SCATTERING IN TAPERED OPTICAL FIBERS</b> .....	645
<i>Adrien Godet ; Abdoulaye Ndao ; Thibaut Sylvestre ; Sylvie Lebrun ; Gilles Pauliat ; Jean-Charles Beugnot ; Kien Phan Huy</i>	
<b>BRILLOUIN OPTICAL SPECTRUM ANALYZER WITH MODULATED PUMP</b> .....	646
<i>A. Yu. Tkachenko ; I. A. Lobach ; S. I. Kablukov</i>	
<b>THE POTENTIAL OF NANOPHOTONIC LAB-ON-CHIP BIOSENSORS FOR HIGH-VALUE DIAGNOSTICS</b> .....	647
<i>Laura M. Lechuga</i>	

<b>SENSITIVITY AND RESPONSE TIME OF AN ON-CHIP METHANE SENSOR .....</b>	<b>648</b>
<i>Mukesh Yadav ; Jana Jágerská ; Jorn H. Hansen ; Olav Gaute Helleso</i>	
<b>LOCALIZED HIGH RESOLUTION BRILLOUIN SPECTRUM MEASUREMENT OF A PHOTONIC INTEGRATED CIRCUIT.....</b>	<b>649</b>
<i>Atiyeh Zarifi ; Birgit Stiller ; Moritz Merklein ; Khu Vu ; Stephen J. Madden ; Benjamin J. Eggleton</i>	
<b>MID-IRRED SENSING WAVEGUIDES EMBEDDED IN SILICA GLASS: DETECTION OF WATER PHASE AND ICE MICROSTRUCTURE IN HARSH-ENVIRONMENTS.....</b>	<b>650</b>
<i>Javier Martínez ; Airán Ródenas ; Andreas Stake ; Javier Solis ; Roberto Osellame ; Benoît Berton ; Shigeo Kimura ; Nadine Rehfeld ; Magdalena Aguiló ; Francesc Díaz</i>	
<b>OPTICAL LAYOUT FOR THE MEASUREMENT OF A POROUS SILICON SENSOR ARRAY .....</b>	<b>651</b>
<i>Tanya Hulker ; Gilmore Wellio ; Joanna Chan ; Alexander V. Kellarev ; Stephen R. Elliott ; Shlomo Ruschin</i>	
<b>POLYMER WGM ARRAYS FOR OPTICAL SENSING APPLICATIONS.....</b>	<b>652</b>
<i>Ann Britt Peter-Mann ; Bernhard Roth ; Uwe Morgner ; Merve Meinhardt-Wollweber</i>	
<b>SELECTIVE ABLATION CONTROL DURING SCRIBING OF NANOMETRIC THIN TRANSPARENT CONDUCTING LAYERS IN ORGANIC PHOTOVOLTAIC DEVICES USING LASER SPECTROSCOPY .....</b>	<b>653</b>
<i>S. P. Banerjee ; Marc Sentis</i>	
<b>FIBRE OPTIC STRAIN SENSOR FOR CARBON CONCRETE COMPOSITES.....</b>	<b>654</b>
<i>K. Bremer ; F. Weigand ; Y. Zheng ; L. S. M. Alwis ; M. Kuhne ; R. Helbig ; B. Roth</i>	
<b>DATA-EFFICIENT HIGH-THROUGHPUT FIBER BRAGG GRATING SENSORS USING PHOTONIC TIME-STRETCH COMPRESSIVE SENSING.....</b>	<b>655</b>
<i>Chaitanya K Mididoddi ; Eammon J Ahmad ; Chao Wang</i>	
<b>POLARIZATION MODULATION BASED ON GRAPHENE-INTEGRATED EX-TFG IN THIN-CLADDING FIBRE .....</b>	<b>656</b>
<i>Biqiang Jiang ; Changle Wang ; Kaiming Zhou ; Jianlin Zhao ; Lin Zhang</i>	
<b>OPEN-PATH LASER-BASED HYDROGEN SULFIDE DETECTION AT SINGLE-PPM LEVEL .....</b>	<b>657</b>
<i>Dorota Stachowiak ; Piotr Jaworski ; Michal Nikodem</i>	
<b>COMBINED BROADBAND PHOTO-ACOUSTIC AND ABSORPTION SPECTROSCOPIC TECHNIQUES OF MEASUREMENT FOR C<sub>2</sub>H<sub>2</sub> WITH SUPERCONTINUUM LASER.....</b>	<b>658</b>
<i>Ramya Selvaraj ; Nilesh J Vasa ; S M Shiva Nagendra</i>	
<b>REFRACTIVE INDEX SENSOR BASED ON TILTED FIBER BRAGG GRATINGS DRIVEN BY ACOUSTIC WAVES.....</b>	<b>659</b>
<i>Carlos A. F. Marques ; Nélia J. Alberto ; Fatima Domingues ; Cátia Leitão ; Paulo Antunes ; João L. Pinto ; Paulo André</i>	
<b>SPECKLE REDUCTION IN LASER PROJECTION USING MICRO-STRUCTURED SCREENS .....</b>	<b>660</b>
<i>Jaël Pauwels ; Guy Verschaffelt</i>	
<b>PRECISE INTERFEROMETRIC SYSTEM FOR FAST CONTACTLESS MEASUREMENTS OF LENS THICKNESS.....</b>	<b>661</b>
<i>Michalina Józwik ; Michal Szymanski ; Stanislaw Lipinski ; Tomasz Stanczyk ; Daniel Kunicki ; Marek Napierala ; Tomasz Nasilowski</i>	
<b>MEASUREMENT OF UV-INDUCED LOSSES AND THERMAL EFFECTS IN PHOTSENSITIVE FIBERS USING WHISPERING GALLERY MODES .....</b>	<b>662</b>
<i>X. Roselló-Mechó ; M. Delgado-Pinar ; L. Poveda-Wong ; J. L. Cruz ; M. V. Andrés</i>	
<b>COMPRESSIVE SAMPLING FOR SPECTRAL IMAGING .....</b>	<b>663</b>
<i>L. Maidment ; A. Polak ; S. Marshall ; D. T. Reid</i>	
<b>DIAPHRAGM BASED SINGLE MODE FIBER TAPER ACOUSTIC SENSOR.....</b>	<b>664</b>
<i>Sumit Dass ; Rajan Jha</i>	
<b>EFFECTS OF LONG-TERM EXPOSURE OF OPTICALLY TRANSPARENT PH SENSING FILMS .....</b>	<b>665</b>
<i>Daniela M. Topasna ; Troy A. Emig ; Scott A. Cox</i>	
<b>CONVENIENT OPTICAL DISPLACEMENT MEASUREMENT METHOD USING THE SPIRAL-TYPE BEAM ROTATION PROPERTIES.....</b>	<b>666</b>
<i>K. Regelskis ; A. Baranauskas ; N. Gavrilimas ; J. Zeludevicius ; G. Raciukaitis</i>	
<b>OPTICAL SIMULATION OF TIME-OF-FLIGHT SENSOR ACCURACY IN RAIN.....</b>	<b>667</b>
<i>Marcus Baumgart ; Cristina Consani ; Markus Dielacher ; Norbert Druml</i>	
<b>FARADAY ROTATION SPECTROSCOPY USING AN OPTICAL FREQUENCY COMB .....</b>	<b>668</b>
<i>Alexandra C. Johansson ; Jonas Westberg ; Amir Khodabakhsh ; Lucile Rutkowski ; Gerard Wysocki ; Aleksandra Foltynowicz</i>	
<b>PHOTOTHERMAL DETECTION OF NO MOLECULES USING A 5.2 μM QUANTUM CASCADE LASER AND A SIMPLE FIBER-BASED INTERFEROMETER .....</b>	<b>669</b>
<i>Karol Krzempek ; Grzegorz Dudzik ; Michal Nikodem ; Gerard Wysocki ; Krzysztof Abramski</i>	
<b>FULLY-MONOLITHIC SINGLE-ACTIVE FIBER DIFFERENCE FREQUENCY GENERATION SOURCE FOR SIMULTANEOUS MULTI-SPECIES GAS SENSING .....</b>	<b>670</b>
<i>Karol Krzempek ; Grzegorz Dudzik ; Aleksander Gluszek ; Arkadiusz Hudzikowski ; Krzysztof Abramski</i>	
<b>DETECTION OF OH AND H<sub>2</sub>O IN AN ATMOSPHERIC FLAME BY NEAR-IRRED OPTICAL FREQUENCY COMB SPECTROSCOPY .....</b>	<b>671</b>
<i>Lucile Rutkowski ; Alexandra C. Johansson ; Amir Khodabakhsh ; Damir M. Valiev ; Lorenzo Lodi ; Sergey Yurchenko ; Oleg L. Polyansky ; Jonathan Tennyson ; Florian M. Schmidt ; Aleksandra Foltynowicz</i>	
<b>DISPERSION FREE FULL RANGE SPECTRAL INTENSITY OPTICAL COHERENCE TOMOGRAPHY .....</b>	<b>672</b>
<i>Mikkel Jensen ; Niels M. Israelsen ; Michael Maria ; Thomas Feuchter ; Adrian Podoleanu ; Ole Bang</i>	
<b>TOWARDS COMPACT OPTICAL QUANTUM TECHNOLOGY FOR SPACE ENVIRONMENTS .....</b>	<b>673</b>
<i>Marc Christ ; Achim Peters ; Markus Krutzik</i>	
<b>POTENTIAL BENDING SENSOR BASED ON SMALL-PERIOD LONG-PERIOD GRATINGS.....</b>	<b>674</b>
<i>Changle Wang ; Yunhe Zhao ; Fangcheng Shen ; Zhijun Yan ; Biqiang Jiang ; Kaiming Zhou ; Xuewen Shu ; Lin Zhang</i>	

<b>LINBO3 MICRODISC WHISPERING GALLERY MODE (WGM) RESONATOR AS PROMISING THZ DETECTOR</b> .....	675
<i>Alessandro Cosci ; Matteo Cerminara ; Gualtiero Nunzi Conti ; Silvia Soria ; Daniele Farnesi ; Giancarlo C. Righini ; Stefano Pelli</i>	
<b>METROLOGICAL-GRADE TUNABLE COHERENT SOURCE IN THE MID-INFRARED FOR MOLECULAR PRECISION SPECTROSCOPY</b> .....	676
<i>Simone Borri ; G. Insero ; D. Calonico ; P. Cancio Pastor ; C. Clivati ; D. D'Ambrosio ; P. G. Schunemann ; J. -J. Zondy ; M. Inguscio ; F. Levi ; P. De Natale ; G. Santambrogio</i>	
<b>BROADBAND MID-INFRARED CAVITY RINGDOWN SPECTROSCOPY WITH FREQUENCY UPCONVERSION DETECTOR</b> .....	677
<i>Kim Patokoski ; Caroline Amiot ; Goery Genty ; Juha Toivonen</i>	
<b>SINGLE SIDEBAND MODULATION IN BRILLOUIN OPTICAL CORRELATION DOMAIN ANALYSIS</b> .....	678
<i>Jacopo Morosi ; Maddalena Ferraro ; Pierpaolo Boffi ; Mario Martinelli</i>	
<b>CAVITY RING-DOWN SPECTROSCOPY FOR THE ISOTOPE RATIO MEASUREMENT OF METHANE IN AMBIENT AIR WITH DFB DIODE LASER NEAR 1.65 <math>\mu\text{M}</math></b> .....	679
<i>A. Bicer ; J. Bounds ; F. Zhu ; A. A. Kolomenskii ; S. Tzortzakos ; H. A. Schuessler</i>	
<b>DETECTION SENSITIVITY OF FIELD-RESOLVED SPECTROSCOPY IN THE MOLECULAR FINGERPRINT REGION</b> .....	680
<i>Marinus Huber ; Wolfgang Schweinberger ; Michael Trubetskov ; Syed A. Hussain ; Oleg Pronin ; Lenard Vamos ; Ernst Fill ; Alexander Apolonski ; Mihaela Zigman ; Ferenc Krausz ; Ioachim Pupeza</i>	
<b>ULTRACOMPACT OXYGEN SENSOR USING NANOPOROUS MATERIALS AS STRONGLY-SCATTERING MULTIPASS CELL FOR TUNABLE DIODE LASER ABSORPTION SPECTROSCOPY</b> .....	681
<i>F. Venturini ; V. Schönherr ; E. Adolfsson</i>	
<b>SENSING METHANE IN AIR WITH A MID-INFRARED FREQUENCY COMB SOURCE</b> .....	682
<i>Feng Zhu ; Jinbao Xia ; Aysenur Bicer ; James Bounds ; Alexandre Kolomenskii ; James Strohaber ; Lewis Johnson ; Mahmood Amani ; Hans Schuessler</i>	
<b>LOW ENERGY CONSUMPTION, COMPACT SETUP FOR ISOTOPE ANALYSIS OF METHANE AT 3007.95 <math>\text{CM}^{-1}</math> AND 3008.39 <math>\text{CM}^{-1}</math> USING ROOM-TEMPERATURE CW INTERBAND CASCADE LASER (ICL)</b> .....	683
<i>Aleksander Gluszek ; Arkadiusz Hudzikowski ; Karol Krzempek ; Krzysztof M. Abramski ; Frank K. Tittel</i>	
<b>ENHANCING SENSITIVITY BEYOND THE OPTICAL EFFECTIVE PATHLENGTH IN CAVITY-ENHANCED SPECTROSCOPY</b> .....	684
<i>F. Nadeem ; B. Postma ; G. Postma ; S. M. Cristescu ; J. Mandan ; F. J. M. Harren</i>	
<b>ROLE OF <math>\text{CO}_2</math> IN FILAMENTATION OF 3.9-<math>\mu\text{M}</math> MID IR PULSES IN AMBIENT AIR</b> .....	685
<i>Valentina Shumakova ; Audrius Pugžlys ; Skirmantas Ališauskas ; Claudia Gollner ; Andrius Baltuška ; Alexander Voronin ; Alexander Mitrofanov ; Dmitriy Sidorov-Biryukov ; Alexey Zheltikov ; Daniil Kartashov</i>	
<b>SUPPORT VECTOR MACHINE BASED NONLINEAR COMPENSATION FOR FEW MODE FIBER TRANSMISSION SYSTEMS</b> .....	686
<i>Gleg Sidelnikov ; Alexey Redyuk ; Filipe Ferreira ; Stylianos Sygletos</i>	
<b>EFFICIENT SIGNALLING ON THE CONTINUOUS SPECTRUM OF NONLINEAR OPTICAL FIBRE</b> .....	687
<i>Iman Tavakkolnia ; Majid Safari</i>	
<b>NONLINEAR FOURIER TRANSFORM IN OPTICAL COMMUNICATIONS</b> .....	688
<i>Jan-Willem Goossens ; Hartmut Hafermann ; Mansoor I. Yousefi ; Yves Jaouen</i>	
<b>ENERGY BASED TRANSMISSION OPTIMISATION IN NONLINEAR FOURIER DOMAIN</b> .....	689
<i>Morteza Kamalian ; Jaroslav E. Prilepsky ; Stanislav A. Derevyanko ; Son T. Le ; Sergei K. Turitsyn</i>	
<b>DATA TRANSMISSION THROUGH OPTICAL POLARIZATION DOMAIN WALLS</b> .....	690
<i>M. Guasoni ; M. Gilles ; P.-Y. Bony ; J. Garnier ; A. Picozzi ; J. Fatome</i>	
<b>OPTIMAL BALANCE OF RIN AND ASE IMPAIRMENTS IN ULTRA-LONG RAMAN LASER AMPLIFIED 10<math>\times</math>30 GBAUD DP-QPSK TRANSMISSION</b> .....	691
<i>Francesca Gallazzi ; Giuseppe Rizzelli ; Md Asif Iqbal ; Mingming Tan ; Paul Harper ; Juan Diego Ania-Castañón</i>	
<b>RIN REDUCTION TECHNIQUE FOR DUAL ORDER FORWARD PUMPED DISTRIBUTED RAMAN AMPLIFICATION</b> .....	692
<i>Md Asif Iqbal ; Mingming Tan ; Paul Harper</i>	
<b>INFLUENCE OF DOUBLE RAYLEIGH BACKSCATTERING ON RAMAN AMPLIFIED HIGHER ORDER MODULATION TRANSMISSIONS</b> .....	693
<i>David Ronnenberg ; Marius Brehler ; Peter M. Krummrich</i>	
<b>EQUALIZATION-ENHANCED PHASE NOISE SUPPRESSION ADVANTAGE OF CO-FBMC OVER RGI CO-OFDM</b> .....	694
<i>Tu T. Nguyen ; Ronald Missel ; Son T. Le ; Marc Wuilpart ; Patrice Megret</i>	
<b>POLARIZATION DEPENDENT LOSS DUE TO FOUR-WAVE MIXING</b> .....	695
<i>Aravind P. Anthur ; Sean O'Duill ; Yi Lin ; Deepa Venkitesh ; Liam P. Barry</i>	
<b>WAVELENGTH-MULTIPLEXED COMPUTATIONAL TEMPORAL GHOST IMAGING</b> .....	696
<i>Piotr Ryczkowski ; Ari T. Friberg ; John M. Dudley ; Goëry Genty</i>	
<b>DEMONSTRATION OF OPTICAL VORTEX PROPAGATION IN ON-CHIP RECTANGULAR DIELECTRIC WAVEGUIDES</b> .....	697
<i>Vladimir S. Lyubopytov ; Arkadi Chipouline ; Grigori S. Sokolovskii ; Nikita S. Averkiev ; Grigori Savchenko ; Urs Zywietz ; Boris Chichkov ; Idelfonso Tafur Monroy ; Vladislav E. Bougrov ; Franko Küpper</i>	
<b>ULTRAFAST PHOTONICS TIME-FREQUENCY SIGNAL PROCESSING</b> .....	698
<i>Andrew M. Weiner</i>	
<b>PERFORMANCE ANALYSIS OF OPTICAL FRONT-HAULING FOR 5G WAVEFORMS</b> .....	699
<i>Amol Delmade ; Colm Browning ; Arman Farhang ; Nicola Marchetti ; Linda E. Doyle ; David Koilpillai ; Liam P. Barry ; Deepa Venkitesh</i>	

<b>FEASIBILITY ANALYSIS OF A 4-QAM COLORLESS TRANSMITTER BASED ON TWO RSOAS</b> .....	700
<i>A. Totovic ; D. Gvozdic ; M. Santagiustina ; C. Antonelli ; P. Parolari ; P. Boffi</i>	
<b>HOMODYNE DIRECT DOWN-CONVERSION OF 8-PSK CONJUGATED RADIO-OVER-FIBER SIGNALS FOR FIBER NONLINEARITY CANCELLATION</b> .....	701
<i>Takahide Sakamoto ; Guo-Wei Lu</i>	
<b>INJECTION-LOCKED SINGLE-MODE VCSEL FOR ORTHOGONAL MULTIPLEXING AND AMPLITUDE NOISE SUPPRESSION</b> .....	702
<i>Arkadi Chipouline ; Vladimir S. Lyubopytov ; Mohammadreza Malekizandi ; Tuomo Von Lerbet ; Matti Lassas ; Franko Küppers</i>	
<b>MULTICAP MODULATION FOR HIGH SPECTRAL EFFICIENCY TRANSMISSION OVER SI-POF</b> .....	703
<i>J. A. Altabas ; D. Izquierdo ; A. Lopez ; M. A. Losada ; J. Mateo ; J. A. Lazaro ; I. Garces</i>	
<b>PAM-8 108 GBIT/S TRANSMISSION USING AN 850NM MULTI-MODE VCSEL</b> .....	704
<i>Simon A. Gebrewold ; Arne Josten ; Benedikt Baeuerle ; Mirko Stubenrauch ; Sven Eitel ; Juerg Leuthold</i>	
<b>HYBRID ELECTRO-OPTICAL MCM AS MULTI-FLOW GENERATION ENABLER FOR ELASTIC OPTICAL NETWORKS</b> .....	705
<i>L. Nadal ; M. Svaluto Moreolo ; J. M. Fàbrega ; F. J. Vilchez</i>	
<b>DISSIPATIVE OPTICAL SWITCH FOR COHERENT FIBRE NETWORKS WITH 100 THZ BANDWIDTH</b> .....	706
<i>Angelos Xomalis ; Yongmin Jung ; Iosif Demirtzioglou ; Venkatram Nalla ; Eric Plum ; Kevin F. Macdonald ; Periklis Petropoulos ; David J. Richardson ; Nikolay I. Zheludev</i>	
<b>LARGE-SCALE OPTICAL CIRCUIT SWITCH ARCHITECTURE FOR INTRA-DATACENTRE NETWORKING</b> .....	707
<i>Yojiro Mori ; Koh Ueda ; Hiroshi Hasegawa ; Ken-Ichi Sato</i>	
<b>MODULATION FORMAT-DEPENDENCE OF CROSSTALK FLUCTUATIONS IN HOMOGENEOUS MULTI-CORE FIBERS</b> .....	708
<i>Georg Rademacher ; Ruben S. Luis ; Benjamin J. Puttnam ; Yoshinari Awaji ; Naoya Wada</i>	
<b>EISENBUD-WIGNER-SMITH STATES AND SPATIAL EIGENSTATES IN MULTIMODE OPTICAL FIBRE</b> .....	709
<i>Joel Carpenter ; Benjamin J. Eggleton ; Jochen Schröder</i>	
<b>WAVELENGTH-SELECTIVE EXTERNAL CAVITY LASER USING AN INAS QUANTUM DOT GAIN CHIP AND A PLANAR LIGHTWAVE CIRCUIT FOR T-BAND WDM COMMUNICATIONS</b> .....	710
<i>Yudai Okuno ; Katsumi Yoshizawa ; Yasunori Tomomatsu ; Hiroyuki Tsuda</i>	
<b>NOVEL LASER-LINEWIDTH MEASUREMENT BASED ON THREE-WAVE INTERFERENCE USING DIGITAL COHERENT RECEIVER</b> .....	711
<i>Shuhei Yamaoka ; Yojiro Mori ; Ken-Ichi Sato</i>	
<b>EXPLORING 10 GB/S TRANSMISSIONS IN TITANIUM DIOXIDE BASED WAVEGUIDES AT 1.55 <math>\mu</math>M AND 2.0 <math>\mu</math>M</b> .....	712
<i>Manon Lamy ; Christophe Finot ; Julien Fatome ; Juan Arocas ; Jean-Claude Weeber ; Kamal Hammani</i>	
<b>ON-CHIP REGENERATION OF A FREQUENCY COMB FOR 64QAM COMMUNICATIONS</b> .....	713
<i>A. Choudhary ; M. Pelusi ; D. Marpaung ; T. Inoue ; K. Vu ; D-Yong Choi ; P. Ma ; S. Madden ; S. Namiki ; B. J. Eggleton</i>	
<b>ON-CHIP INTEGRATED ZERO-RAM FREQUENCY MODULATOR FOR NOISE REDUCTION AND LINEWIDTH NARROWING IN DISCRETE-MODE LASERS</b> .....	714
<i>Stefan Kundermann ; John O'Carroll ; Diarmuid Byrne ; Lina Maigyte ; Brian Kelly ; Ivar Kjelberg ; Steve Lecomte ; Richard Phelan ; Dmitri L. Boiko</i>	
<b>SELF-STABILIZED OPTOELECTRONIC OSCILLATOR USING OPTICAL FEEDBACK ON INTEGRATED HETERODYNE SOURCE</b> .....	715
<i>A. Thorette ; P. Primiani ; M. Romanelli ; M. Alouini ; F. Van Dijk ; M. Vallet</i>	
<b>ALL-OPTICAL FLIP-FLOP BASED ON DYNAMIC BRILLOUIN GRATINGS</b> .....	716
<i>Marcelo A. Soto ; Andrey Denisov ; Xabier Angulo-Vinuesa ; Sonia Martin-Lopez ; Luc Thévenaz ; Miguel Gonzalez-Herraez</i>	
<b>CELL OPTIMISATION FOR TRANSMISSION WITH ULTRALONG LASER AMPLIFICATION</b> .....	717
<i>Giuseppe Rizzelli ; Pavel Rosa ; Pedro Corredera Guillén ; Juan Diego Ania-Castañón</i>	
<b>EFFECT OF PMD ON THE CONTINUOUS SPECTRUM OF NONLINEAR OPTICAL FIBRE</b> .....	718
<i>Iman Tavakkolnia ; Majid Safari</i>	
<b>LIMITS OF PROPAGATION OF THE FUNDAMENTAL MODE IN MULTIMODE FIBERS</b> .....	719
<i>Christian Röhner ; Götz Kleem ; Marwan Abdou Ahmed ; Thomas Graf</i>	
<b>VIOLET DIODE LASER BASED 11.2-GBIT/S POINT-TO-POINT AND 4.4-GBIT/S WHITE LIGHTING COMMUNICATIONS</b> .....	720
<i>Yu-Chieh Chi ; Yu-Fang Huang ; Tsai-Chen Wu ; Gong-Ru Lin</i>	
<b>NUMERICAL SIMULATION OF BIT-PATTERN DEPENDENT STIMULATED RAMAN SCATTERING</b> .....	721
<i>David Ronnenberg ; Marius Brehler ; Peter M. Krummrich</i>	
<b>SIMULATION OF RIN TRANSFER IN COHERENT OPTICAL COMMUNICATION LINKS WITH DISTRIBUTED RAMAN AMPLIFICATION</b> .....	722
<i>T. M. Fedotenko ; A. E. Bednyakova ; M. Tan ; V. Dvoyrin ; M. P. Fedoruk ; S. K. Turitsyn</i>	
<b>AGILE PHOTONIC GENERATION OF ARBITRARY RF CHIRPED WAVEFORMS BASED ON A SINGLE CW LASER</b> .....	723
<i>Hugues Guillet De Chatellus ; Côme Schnébelin ; Luis Romero Cortés ; Maurizio Burla ; José Azaña</i>	
<b>LOW-LOSS INTEGRATED RING-RESONATOR FILTERS REALIZED BY CMOS FABRICATION PROCESS</b> .....	724
<i>R. Marchetti ; V. Vitali ; C. Lacava ; I. Cristiani ; G. Giuliani ; L. Adelmani ; M. Fournier ; P. Minzioni</i>	
<b>CURVATURE AND POSITION OF NESTED TUBES IN HOLLOW-CORE ANTI-RESONANT FIBERS</b> .....	725
<i>Md. Selim Habib ; Christos Markos ; Ole Bang ; Morten Bache</i>	
<b>INTEGRATED SILICON NITRIDE BASED TE DUAL-BAND GRATING COUPLER</b> .....	726
<i>Siddharth Nambiar ; M. Hemalatha ; Tarun Sharma ; Shankar Kumar Selvaraja</i>	

<b>ANALYSIS OF POLARIZATION MAINTAINING BEHAVIOR IN INHIBITED COUPLING HOLLOW-CORE PHOTONIC CRYSTAL FIBERS (IC HC-PCF)</b> .....	727
<i>Christian Röhrer ; Frédéric Gérôme ; Benoît Debord ; Marwan Abdou Ahmed ; Thomas Graf ; Fetah Benabid</i>	
<b>OPTICAL SINGLE SIDEBAND GENERATION USING SELF-COUPLED MICRO RING RESONATOR IN SOI</b> .....	728
<i>Awanish Pandey ; Shiva Vikram Bhagavatula ; V. R. Supradeepa ; Shankar Kumar Selvaraja</i>	
<b>GRATING ASSISTED OPTICAL WAVEGUIDE COUPLERS FOR MODE DIVISION MULTIPLEXING</b> .....	729
<i>Sebastian Schlangen ; Kort Bremer ; Jörg Neumann ; Gabriel Pelegrina Bonilla ; Bernhard Roth ; Ludger Overmeyer</i>	
<b>RAMAN POLARIZER BASED ON A FIBER WITH A RANDOM BIREFRINGENCE</b> .....	730
<i>Auro M. Perego ; Sergey V. Sergeev</i>	
<b>MITIGATION OF FARADAY-INDUCED POLARIZATION NOISE IN RETRACING FIBRE-OPTIC LINKS</b> .....	731
<i>Paolo Martelli ; Marco Brunero ; Annalaura Fasiello ; Maddalena Ferrario ; Mario Martinelli</i>	
<b>TOWARD MONOLITHIC SINGLE FREQUENCY AND MODELOCKED CRYSTALLINE WAVEGUIDE LASERS</b> .....	732
<i>Thomas Calmano</i>	
<b>HIGH EFFICIENCY WAVEGUIDE-BASED OPTICAL AMPLIFIERS AND LASERS FABRICATED BY FEMTOSECOND-LASER INDUCED ION MIGRATION</b> .....	733
<i>J. Hoyer ; P. Moreno-Zárate ; G. Escalante ; J. A. Vallés ; P. Fernández ; J. Solís</i>	
<b>WAVEGUIDE TM:LU<sub>2</sub>O<sub>3</sub> CERAMIC LASER FABRICATED BY ULTRAFAST LASER INSCRIPTION</b> .....	734
<i>N. K. Stevenson ; J. Morris ; H. Bookey ; A. K. Kar ; C. T. A. Brown ; J. -M. Hopkins ; M. D. Dawson ; A. A. Lagatsky</i>	
<b>MODE-LOCKING OF A FEMTOSECOND-LASER-INScribed YB:YAG CHANNEL WAVEGUIDE LASER USING A CARBON NANOTUBE SATURABLE ABSORBER</b> .....	735
<i>Sun Young Choi ; Fabian Rotermund ; Christian Kränkel ; Thomas Calmano</i>	
<b>FREQUENCY DOUBLING A COMPACT STABLE EXTERNAL CAVITY DIODE LASER USING A NOVEL PPLN WAVEGUIDE</b> .....	736
<i>Stephen G. Lynch ; Lewis G. Carpenter ; Sam A. Berry ; Teresa I. Ferreira ; Christopher Holmes ; Corin B. E. Gawith ; Peter G. R. Smith</i>	
<b>MULTI-GW, 100 FS THULIUM-DOPED FIBER LASER SYSTEM FOR HIGH-HARMONIC GENERATION AT HIGH REPETITION RATES</b> .....	737
<i>Martin Gebhardt ; Christian Gaida ; Fabian Stutzki ; Robert Klas ; Maxim Tschernajew ; Stefan Demmler ; Cesar Jauregui ; Jan Rothhardt ; Jens Limpert ; Andreas Tünnermann</i>	
<b>NONLINEAR PULSE COMPRESSION IN SOLID-CORE FIBERS FOR HIGH-AVERAGE POWER FEW-CYCLE PULSES IN THE MIR</b> .....	738
<i>C. Guida ; L. Vamos ; M. Gebhardt ; F. Stutzki ; C. Jauregui ; J. Limpert ; A. Tünnermann ; I. Pupeza</i>	
<b>10 μJ-CLASS COMPACT THULIUM ALL-FIBERED CPA SYSTEM</b> .....	739
<i>D. Gaponov ; L. Lavoute ; N. Ducros ; A. Hideur ; S. Février</i>	
<b>HOLMIUM DOPED FIBRE OPTIMISED FOR RESONANT CLADDING PUMPING</b> .....	740
<i>P. C. Shardlow ; N. Simakov ; A. Billaud ; J. M. O. Daniel ; P. Barua ; J. Sahu ; A. Hemming ; W. A. Clarkson</i>	
<b>MITIGATION OF SPECTRAL BROADENING IN HIGH PEAK POWER HOLMIUM-DOPED FIBRE SOURCES</b> .....	741
<i>Nikita Simakov ; Alexander Hemming ; Keiron Boyd ; Alan Davidson ; Jae Daniel ; Neil Carmody ; Robert Swain ; Eric Mies ; Michael Oermann ; W. Andrew Clarkson ; Kevin Farley ; Adrian Carter ; John Haub</i>	
<b>3.4 W MONOLITHIC ERBIUM-DOPED ALL-FIBER LASER AT 3.55 μM</b> .....	742
<i>Frédéric Maes ; Vincent Fortin ; Martin Bernier ; Réal Vallée</i>	
<b>THE IMPACT OF THE FIBER DESIGN ON THE RIN CHARACTERISTICS OF HIGH-POWER FIBER LASER SYSTEMS</b> .....	743
<i>Cesar Jauregui ; Michael Müller ; Marco Kienel ; Florian Emaury ; Clara J. Saraceno ; Jens Limpert ; Ursula Keller ; Andreas Tünnermann</i>	
<b>GAIN DYNAMICS AND INTENSITY NOISE SUPPRESSION OF A CLAD-PUMPED YB-FIBER AMPLIFIER</b> .....	744
<i>Jian Zhao ; Germain Guiraud ; Florian Floissat ; Benoit Gouhier ; Sergio Rota-Rodrigo ; Nicholas Traynor ; Giorgio Santarelli</i>	
<b>HIGH PEAK POWER SINGLE-FREQUENCY ASE-REDUCED PM LMA FIBER AMPLIFIER</b> .....	745
<i>A. Durécu ; V. Pureur ; J-P. Cariou ; J. Le Gouei ; L. Lombard ; P. Bourdon</i>	
<b>DEVELOPMENTS OF HIGHLY FREQUENCY AND INTENSITY STABILIZED LASERS FOR SPACE GRAVITATIONAL WAVE DETECTOR: DECIGO</b> .....	746
<i>Aru Suemasa ; Ayumi Shimo-Oku ; Ken'Ichi Nakagawa ; Mitsuru Musha</i>	
<b>HIGH-POWER CEP-STABLE FEW-CYCLE FIBER LASERS</b> .....	747
<i>T. Eidam ; F. Just ; S. Hädrich ; E. Shestev ; N. C. Becker ; A. Klenke ; M. Kienel ; M. Müller ; T. Gottschall ; D. Hoff ; A. Drozdy ; P. Jojart ; A. Szabó ; Z. Várallyay ; K. Osvay ; G. G. Paulus ; A. Tünnermann ; J. Limpert</i>	
<b>ULTRAFAST THULIUM FIBER LASER OPERATING AT 1750 NM</b> .....	748
<i>Oliver Puncken ; Dennis C. Kirsch ; Andreas Wienke ; Dieter Wandt ; Jörg Neumann ; Dietmar Kracht</i>	
<b>ULTRAFAST HO-DOPED ALL-FIBER LASER OPERATING AT 2.05 μM</b> .....	749
<i>Moritz Hinkelmann ; Dieter Wandt ; Uwe Morgner ; Jörg Neumann ; Dietmar Kracht</i>	
<b>A PASSIVELY MODE-LOCKED NANOSECOND LASER WITH AN ULTRA-NARROW SPECTRAL WIDTH</b> .....	750
<i>Michael Kues ; Christian Reimer ; Benjamin Wetzel ; Piotr Roztocki ; Brent E. Little ; Sai T. Chu ; Tobias Hansson ; Evgeny A. Viktorov ; David J. Moss ; Roberto Morandotti</i>	
<b>ALL-FIBER DISSIPATIVE SOLITON RESONANCE MODE-LOCKED FIGURE-9 THULIUM-DOPED FIBER LASER</b> .....	751
<i>Svyatoslav Kharitonov ; Camille-Sophie Brès</i>	
<b>SELF-MODE-LOCKED BISMUTH-DOPED FIBER LASER OPERATING AT 1340NM</b> .....	752
<i>N. K. Thipparapu ; C. Guo ; A. A. Umnikov ; P. Barua ; A. Taranta ; S. Alam ; J. K. Sahu</i>	



<b>MULTI-SOLITON BOUND STATES IN FIBRE LASER HARMONICALLY MODE-LOCKED AT GHZ-RATES BY OPTOACOUSTIC EFFECTS IN PCF</b> .....	753
<i>Wenbin He ; Meng Pang ; Philip St. J. Russell</i>	
<b>FULLY AUTOMATED ALL-FIBER WIDELY-TUNABLE OPTICAL-PARAMETRIC-OSCILLATOR LASER SYSTEM</b> .....	754
<i>Thomas Gottschall ; Tobias Meyer ; Cesar Jauregui ; Florian Just ; Tino Eidam ; Michael Schmitt ; Jens Limpert ; Jürgen Popp ; Andreas Tünnermann</i>	
<b>HIGH-ENERGY PICOSECOND FIBER OPTICAL PARAMETRIC OSCILLATOR EMITTING IN THE BIOLOGICAL WINDOW AROUND 1.7 <math>\mu\text{M}</math></b> .....	755
<i>R. Becheker ; M. Tang ; P. -H. Hanzard ; A. Tyazhev ; A. Mussot ; A. Kudlinski ; A. Kellou ; J. -L. Oudar ; T. Godin ; A. Hideur</i>	
<b>TUNABLE SINGLE AND DUAL-WAVELENGTH EMISSION OF A FIBER LASER BASED ON A DISCRETELY CHIRPED FBG ARRAY AND A THETA RING CAVITY</b> .....	756
<i>Tobias Tiess ; Martin Becker ; Manfred Rothhardt ; Hartmut Bartelt ; Matthias Jäger</i>	
<b>HIGH POWER TUNABLE ULTRAFast FIBER LASER EMITTING ABOVE 3 <math>\mu\text{M}</math></b> .....	757
<i>Simon Duval ; Michel Olivier ; Louis-Rafaël Robichaud ; Jean-Christophe Gauthier ; Pascal Paradis ; Vincent Fortin ; Martin Bernier ; Michel Piché ; Réal Vallée</i>	
<b>MULTIWAVELENGTH TUNABLE TM-DOPED FIBER LASER BASED ON NANOTUBES</b> .....	758
<i>Bo Fu ; Daniel Popa ; Syed Asad Hussain ; Andrea C. Ferrari</i>	
<b>NARROW-BAND WAVELENGTH-TUNABLE THULIUM FIBER RING LASER</b> .....	759
<i>A. Billaud ; P. C. Shardlow ; W. A. Clarkson</i>	
<b>1.06<math>\mu\text{M}</math>–1.35<math>\mu\text{M}</math> COHERENT PULSE GENERATION BY A SYNCHRONOUSLY-PUMPED PHOSPHOSILICATE RAMAN FIBER LASER</b> .....	760
<i>P. Elahi ; Gh. Makey ; A. Turali ; O. Tokel ; F. Ö. Ilday</i>	
<b>LAMB-DICKE SUB-RECOIL NARROWING OF HIGH-POWER CW STOKES RAMAN SOURCE</b> .....	761
<i>M. Chafer ; A. Husakou ; B. Debord ; F. Gérôme ; F. Benabid</i>	
<b>NOVEL APPROACH FOR HIGH POWER NARROW BAND RAMAN FIBER LASERS</b> .....	762
<i>Aleksandr A. Surin ; Tatyana E. Borisenko ; Yuriy S. Stirmanov</i>	
<b>HIGH POWER, GRATING-FREE, CASCADED RAMAN FIBER LASERS</b> .....	763
<i>S. Arun ; V. Balaswamy ; Santosh Aparanji ; V. R. Supradeepa</i>	
<b>LOW THRESHOLD SINGLE-FREQUENCY LINEARLY POLARIZED DFB RAMAN FIBRE LASER</b> .....	764
<i>Sébastien Loranger ; Vladimir Karpov ; Raman Kashyap ; Greg Schinn</i>	
<b>RAMAN AMPLIFICATION OF OAM MODES</b> .....	765
<i>Kasper Ingerslev ; Patrick Gregg ; Michael Galili ; Poul Kristensen ; Siddharth Ramachandran ; Karsten Rottwitt ; Toshio Morioka ; Leif Katsuo Oxenlowe</i>	
<b>FEMTOSECOND BEAM ADAPTIVE SHAPING AND SPACE-TIME COUPLING AT THE OUTPUT OF AN YTTERBIUM DOPED MULTIMODE FIBER</b> .....	766
<i>Raphaël Florentin ; Vincent Kermène ; Agnès Desfarges-Berthelemot ; Joël Benoist ; Alain Barthélémy</i>	
<b>NOVEL LIQUID CRYSTAL CELLS FOR SHORT-PULSED MONOLITHIC GUIDED-WAVE LASER SOURCES</b> .....	767
<i>Christoph Wieschendorf ; Josiah Firth ; Leonardo Silvestri ; Simon Gross ; François Ladouceur ; Michael J. Withford ; David J. Spence ; Alex Fuerbach</i>	
<b>EXCITATION OF MODES IN TWISTED SINGLE-RING PCF BY PRISM-GRATING-COUPLING</b> .....	768
<i>N. N. Edavalath ; R. Beravat ; M. C. Günendi ; G. K. L. Wong ; M. H. Frosz ; P. St. J. Russell</i>	
<b>GENERATION OF FEW CYCLE PULSES FROM A BANDWIDTH-OPTIMIZED HIGH ENERGY YB-DOPED FIBER LASER SOURCE</b> .....	769
<i>Loïc Lavenu ; Michele Natile ; Florent Guichard ; Yoann Zaouter ; Marc Hanna ; Eric Mottay ; Patrick Georges</i>	
<b>EXPERIMENTAL OPTIMIZATION OF CURVATURE AND SILICA THICKNESS CORE CONTOUR OF INHIBITED-COUPLING KAGOME FIBERS</b> .....	770
<i>B. Debord ; M. Maurel ; A. Amsanpally ; M. Adnan ; A. Gorse ; B. Beaudou ; J. -M. Blondy ; L. Vincetti ; F. Gérôme ; F. Benabid</i>	
<b>RAPID PHASE PLATE FABRICATION USING A SCANNING CO<sub>2</sub> LASER</b> .....	771
<i>Keiron Boyd ; Jae Daniel ; Simon Rees ; Nikita Simakov ; Alexander Hemming ; W. Andrew Clarkson ; John Haub</i>	
<b>IMPROVED SBS SUPPRESSION IN HIGH POWER FIBRE LASERS USING METAL COATED ACTIVE FIBRE</b> .....	772
<i>Jae M. O. Daniel ; Nikita Simakov ; Alexander Hemming ; John Haub</i>	
<b>SUPPRESSION OF BRILLOUIN SCATTERING IN LARGE MODE AREA PASSIVE FIBERS</b> .....	773
<i>M. M. Khudyakov ; M. M. Bubnov ; D. S. Lipatov ; A. S. Lobanov ; A. N. Guryanov ; M. E. Likhachev</i>	
<b>THE INFLUENCE OF DIFFERENT SEED SOURCES ON STIMULATED RAMAN SCATTERING IN FIBER AMPLIFIERS</b> .....	774
<i>V. Bock ; T. Schultze ; A. Liem ; T. Schreiber ; R. Eberhardt ; A. Tünnermann</i>	
<b>PARAMETRIC FOUR-WAVE MIXING SIDEBANDS IN STRONGLY DRIVEN RAMAN MOLECULAR D<sub>2</sub>- FILLED HC-PCF</b> .....	775
<i>A. Benoît ; D. Kergoustin ; M. Chafer ; B. Beaudou ; B. Debord ; F. Gérôme ; F. Benabid</i>	
<b>HIGH POWER SUB-PS PULSE GENERATION BY COMPRESSION OF A FREQUENCY COMB OBTAINED BY A NONLINEAR BROADENED TWO COLORED SEED</b> .....	776
<i>M. Plömer ; V. Bock ; T. Schultze ; F. Beier ; N. Haarlamert ; T. Schreiber ; R. Eberhardt ; A. Tünnermann</i>	
<b>GIANT COMPRESSION OF HIGH ENERGY OPTICAL PULSES USING A COMMERCIALY AVAILABLE KAGOME FIBER</b> .....	777
<i>M. Maurel ; B. Debord ; A. Dubrouil ; A. Husakou ; F. Gérôme ; F. Benabid</i>	
<b>COHERENT BEAM COMBINING OF FIBER LASERS</b> .....	778
<i>T. Y. Fan</i>	

<b>SIMPLE PHASE LOCKER FOR COHERENT BEAM COMBINING OF MULTICORE FIBER AMPLIFIERS</b> .....	779
<i>L. Lombard ; F. Prevost ; J. Primot ; M. Hanna</i>	
<b>COMPACT INTEGRATION OF AMPLIFIER CHANNELS FOR COHERENT COMBINATION OF FIBER AMPLIFIERS</b> .....	780
<i>Arno Klenke ; Michael Müller ; Marco Kienel ; Fabian Stutzki ; Jens Limpert ; Andreas Tünnermann</i>	
<b>HIGHLY SCALABLE FEMTOSECOND COHERENT BEAM COMBINING</b> .....	781
<i>J. Le Dortz ; A. Heilmann ; M. Antier ; J. Bourderionnet ; C. Larat ; I. Fsaïfes ; L. Daniault ; S. Bellanger ; C. Simon Boisson ; J. - C. Chanteloup ; E. Lallier ; A. Brignon</i>	
<b>DELAY LINE COHERENT PULSE STACKING OF A SYMMETRIC MODE-LOCKED PULSE TRAIN</b> .....	782
<i>Henrik Tünnermann ; Akira Shirakawa</i>	
<b>POWER SCALABILITY IN HIGH POWER FIBRE AMPLIFIERS</b> .....	783
<i>Michalis N. Zervas</i>	
<b>TRANSIENT MODAL INSTABILITIES IN HIGH POWER FIBRE LASERS</b> .....	784
<i>V. Scarnera ; F. Ghiringhehi ; M. K. Durkin ; C. A. Codemard ; M. N. Zervas</i>	
<b>FIRST EXPERIMENTAL DEMONSTRATION OF QUASI STATIC MODE INSTABILITY IN HIGH POWER FIBER LASER</b> .....	785
<i>Xiaolin Wang ; Hanwei Zhang ; Rumao Tao ; Rongtao Su ; Pengfei Ma ; Pu Zhou ; Xiaojun Xu</i>	
<b>MITIGATION OF MODE INSTABILITIES IN HIGH-POWER FIBER LASER SYSTEMS BY ACTIVE MODULATION OF THE PUMP POWER</b> .....	786
<i>Christoph Stihler ; Cesar Jauregui ; Jens Limpert ; Andreas Tünnermann</i>	
<b>FIBER LAYOUT FOR SUPPRESSING MODAL INSTABILITY WITH GOOD EFFICIENCY IN HIGH-POWER FIBER AMPLIFIERS</b> .....	787
<i>Clifford Headley ; Tristan Kremp ; Poul Kristensen ; Andrea Rosales-Garcia ; Anthony Desantolo ; Lalit Bansal ; David J. Digiovanni</i>	
<b>DEPENDENCE OF THE MODE INSTABILITY THRESHOLD OF HIGH-POWER FIBER LASER SYSTEMS ON CORE CO-DOPANTS</b> .....	788
<i>Cesar Jauregui ; Christoph Stihler ; Jens Limpert ; Andreas Tünnermann</i>	
<b>SPECIALTY OPTICAL FIBER MATERIALS AND FABRICATION TECHNIQUES FOR LASERS</b> .....	789
<i>John Ballato ; Peter Dragic</i>	
<b>FLUORESCENCE LIFETIME IMAGING AND <math>\mu</math>-SPECTROSCOPY OF YB-DOPED MATERIALS</b> .....	790
<i>G. Feldkamp ; T. Schreiber ; R. Eberhardt ; A. Tünnermann</i>	
<b>POLARIZATION-MAINTAINED GUIDANCE OF LARGE-EFFECTIVE-AREA, HIGHER-ORDER-MODES IN FIBER</b> .....	791
<i>Raja Ahmad ; Jeffrey W. Nicholson ; Kazi S. Abedin ; Paul S. Westbrook ; Clifford Headley ; Patrick W. Wisk ; Eric M. Monberg ; Man F. Yan ; David J. Digiovanni</i>	
<b>SINGLE-POLARIZATION LARGE-MODE-AREA FIBRE AT 1030NM AND 1550NM</b> .....	792
<i>Rémi Du Jeu ; Romain Daultiat ; Dia Darwich ; Aurélien Benoît ; Raphaël Jamier ; Kay Schuster ; Philippe Roy</i>	
<b>LASER PEAK POWER SCALING AND BEAM QUALITY IMPROVEMENT WITH A TAPERED YTTERBIUM ROD-TYPE AMPLIFIER MADE BY POWDER SINTER TECHNOLOGY</b> .....	793
<i>Yuan Zhu ; Martin Lorenz ; Martin Leich ; Stephan Grimm ; Claudia Aichele ; Jens Kobelke ; Hartmut Bartelt ; Matthias Jäger</i>	
<b>GAS FILLED HOLLOW CORE MID-IR FIBRE LASERS</b> .....	794
<i>William J. Wadsworth ; Adrian L. Love ; Fei Yu ; Muhammad Rosdi Abu Hassan ; Mengrong Xu ; Jonathan C. Knight</i>	
<b>DEEP-UV PLASMA EMISSION IN HOLLOW-CORE PHOTONIC CRYSTAL FIBER USING GAS MIXTURE</b> .....	795
<i>Frédéric Delahaye ; Foued Amrani ; Benoît Debord ; Luis Alves ; Frédéric G�r�me ; Fetah Benabid</i>	
<b>SINGLE-CIRCULAR-POLARISATION TWISTED SINGLE-RING HOLLOW-CORE PCF</b> .....	796
<i>R. Beravat ; M. C. G�nendi ; G. K. L. Wong ; N. N. Edavalath ; M. H. Frosz ; P. St. J. Russell</i>	
<b>7.7 DB/KM TRANSMISSION LOSS AT 750 NM INHIBITED-COUPPLING GUIDING HOLLOW-CORE PHOTONIC CRYSTAL FIBERS</b> .....	797
<i>B. Debord ; A. Amsanpally ; M. Chafer ; A. Baz ; M. Maurel ; J. M. Blondy ; E. Hugonot ; F. Scol ; L. Vincetti ; F. G�r�me ; F. Benabid ; B. Debord</i>	
<b>1.56 <math>\mu</math>M SUB-MICROJoule FEMTOSECOND PULSE DELIVERY THROUGH LOW-LOSS MICROSTRUCTURED REVOLVER HOLLOW-CORE FIBER</b> .....	798
<i>Alexander A. Krylov ; Andrey K. Senatorov ; Andrey D. Pryamikov ; Alexey F. Kosolapov ; Anton N. Kolyadin ; Grigory K. Alagashev ; Alexey V. Gladyshev ; Igor A. Bufenov</i>	
<b>CHARACTERIZATION OF A 110W SINGLE-FREQUENCY MONOLITHIC FIBRE-AMPLIFIER AT 1.5<math>\mu</math>M FOR NEXT-GENERATION GRAVITATIONAL WAVE DETECTORS</b> .....	799
<i>Omar De Varona ; Willy Fittkau ; Michael Steinke ; Thomas Theeg ; Dietmar Krach ; J�rg Neumann ; Peter Wessels</i>	
<b>THERMALLY INSENSITIVE 700W YB-DOPED FIBER OSCILLATOR AT 1018NM</b> .....	800
<i>W. Y. W. Lim ; C. P. Seah ; S. L. Chua</i>	
<b>120W SINGLE FREQUENCY LASER BASED ON SHORT ACTIVE DOUBLE CLAD TAPERED FIBER</b> .....	801
<i>Christophe Pierre ; Germain Guiraud ; Cyril Vincont ; Nicholas Traynor ; Giorgio Santarelli ; Johan Boullet</i>	
<b>ULTRAFast PICOSECOND MOPA WITH YB-DOPED TAPERED DOUBLE CLAD FIBER</b> .....	802
<i>Teppo Noronen ; Regina Gumenyuk ; Yuri Chamorovskii ; Konstantin Golant ; Maxim Odnoblyudov ; Valery Filippov</i>	
<b>HIGH POWER SHORT PULSE FIBER LASER WITH 1 KW AVERAGE OUTPUT POWER, BASED ON XLMA GAIN FIBERS</b> .....	803
<i>Christian Hapke ; Frank-Peter Grundmann ; Stefan Ruppik ; Reinhold Dinger</i>	
<b>HIGH EFFICIENCY CASCADE FIBER LASER AT 2.8 <math>\mu</math>M</b> .....	804
<i>Yigit Ozan Aydin ; Vincent Fortin ; Fr�d�ric Maes ; Fr�d�ric Jobin ; Stuart D. Jackson ; R�al Vall�e ; Martin Bernier</i>	
<b>DIODE-PUMPED MODE-LOCKED HOLMIUM FIBER LASER AT 2.138 <math>\mu</math>M</b> .....	805
<i>Nikolai Tolstik ; Evgeni Sorokin ; Ignac Bugar ; Irina T. Sorokina</i>	

<b>FREQUENCY COMB ASSISTED CHARACTERISATION OF A FILTER-DRIVEN FOUR WAVE MIXING LASER</b> .....	806
<i>Andrew Cooper ; Hualong Bao ; Maxwell Rowley ; Sai T Chu ; Dave J Moss ; Roberto Morandotti ; Brent E. Little ; Marco Peccianti ; Alessia Pasquazi</i>	
<b>2-FOLD INNER CLADDING SYMMETRY DESIGN FOR ACTUALIZING 100<math>\mu</math>M-CORE CLASS DOUBLE-CLAD LARGE-PITCH FIBERS WITH THE PREFERENTIAL FUNDAMENTAL MODE AMPLIFICATION PROPERTY</b> .....	807
<i>Vladimir V. Demidov ; Konstantin V. Dukelskii ; Sergey K. Evstropiev ; Yuri A. Gatchin ; Egishe V. Ter-Nersesyants ; Pavel V. Bezborodkin</i>	
<b>NUMERICAL INVESTIGATIONS OF OFF-RESONANT PUMPED ER<sup>3+</sup>:YB<sup>3+</sup>-CODOPED FIBRE AMPLIFIERS</b> .....	808
<i>Phillip Booker ; Omar De Varona ; Peter Wessels ; Michael Steinke ; Jörg Neumann ; Dietmar Kracht</i>	
<b>INCOHERENT BEAM COMBINING FOR MULTI-KW LASER SYSTEMS</b> .....	809
<i>Pier-Luc Fortin ; Marc-André Lapointe ; Jean-Noel Maran ; Sophie Larochelle</i>	
<b>INFLUENCE OF COUNTER-PROPAGATING OPTICAL SIGNAL ON MODE INSTABILITY IN A SINGLE FREQUENCY FIBER AMPLIFIER</b> .....	810
<i>Dmitriy Alekseev ; Valentin Tyrtshnyy ; Maxim Kuznetsov ; Oleg Antipov</i>	
<b>HIGH GAIN, FLATTENED, DISCRETE RAMAN FIBER AMPLIFIER AND ITS TRANSMISSION PERFORMANCE</b> .....	811
<i>Atalia El-Taher ; Mingming Tan ; Md Asif Iqbal ; Lukasz Krzaczanowicz ; Ian D. Phillips ; Wladek Forysiak ; Paul Harper</i>	
<b>LOW-LOSS ANTI-RESONANT HOLLOW FIBERS WITH POLYGONAL CORES</b> .....	812
<i>Yang Chen ; Mohammed F. Saleh ; Nicolas Y. Joly ; Michael Frosz ; Philip St. J. Russell ; Fabio Biancalana</i>	
<b>MACROSCOPIC MOTION OF THE SELF-NANOSTRUCTURED RAMAN GAS</b> .....	813
<i>M. Chafer ; A. Husakou ; B. Debord ; F. Gérôme ; F. Benabid</i>	
<b>10W, HIGH REPETITION RATE, 775 NM FIBER LASER WITH HIGH RESOLUTION PULSE SHAPING, AND ON-DEMAND PULSE TO PULSE SWITCHING CAPABILITY, FOR BIOINSTRUMENTATION</b> .....	814
<i>Louis Desbiens ; Vincent Roy ; Michel Jacob ; Yves Taillon</i>	
<b>VISIBLE Q-SWITCHED PULSE GENERATION IN PR-DOPED DOUBLE-CLAD STRUCTURED WATERPROOF FLUORO-ALUMINATE GLASS FIBER</b> .....	815
<i>S. Kajikawa ; T. Murakami ; M. Yoshida ; O. Ishii ; M. Yamazaki ; Y. Fujimoto</i>	
<b>MODE SELECTION IN A RAMAN FIBER LASER DIRECTLY PUMPED BY A MULTIMODE LASER DIODE USING FIBER BRAGG GRATINGS</b> .....	816
<i>Ekaterina A. Zlobina ; Sergey I. Kablukov ; Mikhail I. Skvortsov ; Ilya N. Nemov ; Alexey A. Wolf ; Alexander V. Dostovalov ; Sergey A. Babin</i>	
<b>8 W NARROW-LINEWIDTH LINEARLY-POLARIZED 1610 NM ER:YB ALL FIBER MOPA</b> .....	817
<i>Eisuke Fujita ; Yutaka Mashiko ; Masaki Tokurakawa</i>	
<b>PARAMETER OPTIMISATION OF PI-SHIFTED DISTRIBUTED FEEDBACK FIBER BRAGG GRATING RAMAN LASERS</b> .....	818
<i>Sébastien Loranger ; Amirhossein Tehrani ; Herbert Winful ; Raman Kashyap</i>	
<b>NOVEL SUPERLUMINESCENT BISMUTH-DOPED FIBER SOURCE FOR THE 1700–1750 NM RANGE</b> .....	819
<i>Konstantin Riutkin ; Sergei Firstov ; Vladimir Khopin ; Sergey Alyshev ; Mikhail Melkumov ; Alexey Guryanov ; Evgeny Dianov</i>	
<b>DEVELOPMENT AND NOISE STUDY OF AN ALL FIBRE-BASED HIGH ENERGY SUPERCONTINUUM SOURCE USING TAPERED PHOTONIC CRYSTAL FIBRE FOR MULTIMODALITIES</b> .....	820
<i>Magalie Bondu ; Peter Morten Moselund ; Adrian Podoleanu</i>	
<b>STUDY OF METHODOLOGY FOR GAIN-SWITCHED HOLMIUM-DOPED FIBER LASER COMBINED WITH Q-SWITCHED THULIUM-DOPED FIBER LASER</b> .....	821
<i>Jinhwa Gene ; Seung Kwan Kim ; Sun Do Lim</i>	
<b>A NOVEL FORMULA FOR THE YB<sup>3+</sup>-TO-ER<sup>3+</sup> ENERGY TRANSFER RATE IN ER<sup>3+</sup>:YB<sup>3+</sup>-CODOPED FIBRES</b> .....	822
<i>Michael Steinke ; Dietmar Kracht ; Jörg Neumann ; Peter Wessels</i>	
<b>PULSE-TO-PULSE COHERENCE BETWEEN STOKES PULSES GENERATED BY STIMULATED RAMAN SCATTERING IN THE TRANSIENT REGIME</b> .....	823
<i>D. Kergoustin ; M. Alharbi ; B. Debord ; F. Gérôme ; F. Benabid</i>	
<b>OPTIMIZED MODULATION FORMATS FOR SUPPRESSION OF STIMULATED BRILLOUIN SCATTERING IN OPTICAL FIBER AMPLIFIERS</b> .....	824
<i>A. V. Harish ; J. Nilsson</i>	
<b>MODE ANALYSIS IN PHASE-LOCKED MULTI-CORE PHOTONIC CRYSTAL FIBER LASER BY INTERFERENCE METHOD</b> .....	825
<i>Yuta Kurosu ; Henrik Tünnermann ; Akira Shirakawa</i>	
<b>NARROW LINEWIDTH POLARIZER-FREE 2.1<math>\mu</math>M HO-DOPED FIBER LASER WITH 45DB POLARIZATION EXTINCTION RATIO</b> .....	826
<i>Sida Xing ; Davide Grassani ; Camille-Sophie Brès</i>	
<b>FEMTOSECOND LASER-WRITTEN TM:KLU(WO<sub>4</sub>)<sub>2</sub> WAVEGUIDE LASERS</b> .....	827
<i>Esrom Kifle ; Xavier Mateos ; Javier R. Vázquez De Aldana ; Airán Ródenas ; Pavel Loiko ; Sun Young Choi ; Fabian Rotermund ; Uwe Griebner ; Valentin Petrov ; Magdalena Aguiló ; Francesc Díaz</i>	
<b>WATT LEVEL NARROW LINEWIDTH LASER SOURCE AT 852 NM FOR COLD ATOM APPLICATIONS</b> .....	828
<i>Laura Antoni-Micollier ; Sapeste Battelier ; Daniel Comparar ; Bruno Desruelle ; Giorgio Santarelli</i>	
<b>CHIRPED-PULSE-AMPLIFICATION SYSTEM USING A POLARIZATION-MAINTAINING FIBER STRETCHER MATCHED TO A VOLUME BRAGG GRATING</b> .....	829
<i>Fabian Röser ; Robert Herda ; Lars-Grüner Nielsen</i>	

<b>OPTICAL HETERODYNE DETECTION FOR SPECTRAL CHARACTERIZATION OF FEW LONGITUDINAL MODE FIBER LASERS</b> .....	830
<i>Tim Schultze ; Andreas Liem ; Thomas Schreiber ; Ramona Eberhardt ; Andreas Timmermann</i>	
<b>3.5-W, 42-MHZ, SINGLE-MODE CHIRPED PULSE AMPLIFICATION FIBER LASER SYSTEM AT 1560 NM</b> .....	831
<i>P. Elahi ; H. Li ; F. Ö. Ilday</i>	
<b>GAIN COMPETITION IN YB-DOPED SYMMETRY-FREE PHOTONIC CRYSTAL FIBERS UNDER SEVERE HEAT LOAD</b> .....	832
<i>Federica Poli ; Carlo Molardi ; Lorenzo Rosa ; Annamaria Cucinotta ; Stefano Selleri</i>	
<b>GUIDED ACOUSTIC WAVES BRILLOUIN SCATTERING IN MULTI-CORE OPTICAL FIBERS</b> .....	833
<i>Hillel Hagai Diamandi ; Yosef London ; Avi Zadok</i>	
<b>PULSE BURSTS GENERATION AT 10 GHZ INTRA-BURST REPETITION RATE IN QUASI-LOSSLESS MODE-LOCKED ERBIUM-DOPED FIBRE LASER</b> .....	834
<i>Maria Chernysheva ; Srikanth Sugavanam ; Dmitri Churkin</i>	
<b>EFFICIENT IN-PHASE LOCKING OF COUPLED LASERS</b> .....	835
<i>Chene Tradonsky ; Ronen Chriki ; Gilad Barach ; Vishwa Pal ; Asher A. Friesem ; Nir Davidson</i>	
<b>FEMTOSECOND LASERS BASED ON DISPERSION COMPENSATION WITH HYBRID FIBER</b> .....	836
<i>Svetlana S. Aleshkina ; Mikhail V. Yashkov ; Liudmila D. Iskhakova ; Mikhail M. Bubnov ; Alexei N. Guryanov ; Mikhail E. Likhachev</i>	
<b>1.5 MW PEAK POWER DIFFRACTION LIMITED MONOLITHIC YB-DOPED TAPERED FIBER AMPLIFIER</b> .....	837
<i>Konstantin Bobkov ; Andrei Levchenko ; Svetlana Aleshkina ; Sergey Semenov ; Alexander Denisov ; Mikhail Bubnov ; Denis Lipatov ; Alexander Laptev ; Alexey Guryanov ; Mikhail Likhachev</i>	
<b>FEMTOSECOND SEEDING OF A TM-HO FIBER AMPLIFIER BY A BROADBAND COHERENT SUPERCONTINUUM PULSE FROM AN ALL-SOLID ALL-NORMAL PHOTONIC CRYSTAL FIBER</b> .....	838
<i>Joanna Modupeh Hodasi ; Alexander Heidt ; Mariusz Klimczak ; Bartlomiej Siwicki ; Thomas Feurer</i>	
<b>A TWISTED SHAPED CLADDING LIGHT STRIPPER BY CO<sub>2</sub> LASER PROCESSING FOR HIGH POWER FIBER LASERS AND AMPLIFIERS</b> .....	839
<i>Bartu Simsek ; Elif Uzcengiz Simsek ; Yakup Midilli ; Büilend Ortaç</i>	
<b>DEVELOPMENT OF ULTRASHORT PULSE AMPLIFICATION SYSTEM BY ALL FIBER PASSIVE-PHASE-MATCHING COHERENT ADDITION TECHNOLOGY</b> .....	840
<i>T. Nakamura ; T. Sasaki ; M. Yoshikawa ; K. Morishita ; M. Yoshida</i>	
<b>OPTOMECHANICALLY INDUCED TRANSPARENCY IN DIAMOND MICRODISKS</b> .....	841
<i>Matthew Mitchell ; David P. Lake ; J. P. Hadden ; Paul E. Barclay</i>	
<b>DIRECTIONAL FLUORESCENCE SHAPING AND LASING IN ALL-POLYMER MICROCAVITIES DOPED WITH CDSE/CDS DOT-IN-ROD NANOCRYSTALS</b> .....	842
<i>Giovanni Manfredi ; Paola Lova ; Francesco Di Stasio ; Roman Krahné ; Davide Comoretto</i>	
<b>TUNABLE COMPLETE OPTICAL ABSORPTION IN MULTILAYER STRUCTURES INCLUDING GE<sub>2</sub>SB<sub>2</sub>TE<sub>5</sub> WITHOUT LITHOGRAPHIC PATTERNS</b> .....	843
<i>V. K. Mkhitarian ; D. S. Ghosh ; M. Rudé ; J. Canet-Ferrer ; R. A. Maniyara ; K. K. Gopalan ; V. Pruneri</i>	
<b>DYNAMICAL CONTROL OF SQUARE MICROLASER EMISSION VIA ITS SYMMETRY CLASSES</b> .....	844
<i>M. Lebental ; A. Loirette-Pelous ; C. Lafargue ; J. Zyss ; I. Gozhyk ; C. Ulysse ; S. Bittner</i>	
<b>EXCITATION AND DYNAMIC CONTROL OF PLASMONS IN GRAPHENE BY UTILIZING A 2-DIMENSIONAL INVERTED PYRAMID ARRAY DIFFRACTION GRATING</b> .....	845
<i>N. Matthaiakakis ; H. Mizuta ; M. D. B. Charlton</i>	
<b>MID-INFRARED (~4.65µm) CAVITY RESONATOR INTEGRATED GRATING FILTERS</b> .....	846
<i>Sylvain Augé ; Sergei Gluchko ; Sylvain Pelloquini ; Anne-Laure Fehrembach ; Thomas Antoni ; Antoine Monmayrant ; Evgeni Popov ; Olivier Gauthier-Lafaye</i>	
<b>INTERPLAY OF BLOCH WAVES AND SCATTERED WAVES IN REAL PHOTONIC CRYSTALS</b> .....	847
<i>Oluwafemi S. Ojambati ; Elahe Yeganegi ; Ad Lagendijk ; Allard P. Mosk ; Willem L. Vos</i>	
<b>COMPACT DIELECTRIC CAVITIES BASED ON FROZEN BOUND STATES IN THE CONTINUUM</b> .....	848
<i>Alireza Taghizadeh ; Il-Sug Chung</i>	
<b>BROADBAND SLOW LIGHT IN GENETICALLY OPTIMIZED COUPLED-CAVITY WAVEGUIDES WITH GBP EXCEEDING 0.45</b> .....	849
<i>Yiming Lai ; Boshen Gao ; Mohamed Sabry Abdel-Allem ; Momchil Mlnkov ; Robert W. Boyd ; Vincenzo Savona ; Romuald Houdré ; Antonio Badolato</i>	
<b>THE DATING GAME AT DIMENSION ZERO: CREATION AND ANNIHILATION OF PHASE SINGULARITIES IN RANDOM WAVES</b> .....	850
<i>L. De Angelis ; F. Alpegiani ; A. Di Falco ; L. Knipers</i>	
<b>STRUCTURAL COLOURS VIA METAL FREE DISORDERED NANOSTRUCTURES WITH NM RESOLUTION AND FULL CYMK COLOUR SPECTRUM</b> .....	851
<i>Valerio Mazzone ; Marcella Bonifazi ; Andrea Fratolocchi</i>	
<b>REALIZATION OF A HIGH-G FACTOR NANOFIBER BRAGG CAVITY USING A HE FOCUSED ION BEAM MILLING SYSTEM</b> .....	852
<i>Hideaki Takashima ; Atsushi Fukuda ; Yusuke Iwabata ; Hironaga Maruya ; Andreas W. Schell ; Shigeki Takeuchi</i>	
<b>3D GLASS-CERAMIC TEMPLATES FOR MICRO-/NANO-OPTICS REALIZED VIA LASER NANOLITHOGRAPHY AND PYROLYSIS</b> .....	853
<i>D. Gailевичius ; L. Jonušauskas ; D. Sakalauskas ; S. Šakirzanovas ; R. Gadonas ; V. Mizėikis ; K. Staliūnas ; S. Juodkazis ; M. Malinauskas</i>	
<b>LARGE AREA FABRICATION TECHNOLOGIES FOR ADVANCED PHOTONIC MICRO- AND NANO-STRUCTURES</b> .....	854
<i>Uwe D. Zeimer</i>	

<b>NANOIMPRINTED DETERMINISTIC APERIODIC NANOSTRUCTURES FOR TAILORED LIGHT MATTER INTERACTIONS</b> .....	855
<i>Jolly Xavier ; Jürgen Probst ; Christiane Becker</i>	
<b>EXPERIMENTAL REALIZATION OF EXACT MAPPING FROM MULTI-DIMENSIONAL TO PLANAR MICRO-PHOTONIC LATTICES</b> .....	856
<i>Lukas J. Maczewsky ; Alexander A. Dovgij ; Andrey E. Miroshnichenko ; Alexander Moroz ; Demetrios N. Christodoulides ; Alexander Szameit ; Andrey A. Sukhorukov</i>	
<b>CATHODOLUMINESCENCE IMAGING SPECTROSCOPY OF SINGLE AND DIMER ALGAAS NANODISKS</b> .....	857
<i>Giuseppe Marino ; Cillian McPollin ; Valerio Gili ; Luca Carletti ; Costantino De Angelis ; Giuseppe Leo ; Anatoly V. Zayats</i>	
<b>EXPERIMENTAL MAPPING OF MAGNETOSTATIC MODE STRUCTURES OF A FERRIMAGNET SPHEROID</b> .....	858
<i>A. Gluppe ; A. Osada ; R. Hisatomi ; A. Noguchi ; R. Yamazaki ; K. Usami ; Y. Nakamura</i>	
<b>MAGNETO-OPTICAL EFFECTS FROM NANOPARTICLES ENHANCED BY MIE RESONANCES</b> .....	859
<i>Maria G. Barsukova ; Alexander S. Shorokhov ; Alexander I. Musorin ; Maxim R. Shcherbakov ; Dragomir N. Neshev ; Yuri S. Kivshar ; Andrey A. Fedyanin</i>	
<b>FROM THREE-PHOTON TO TUNNEL IONIZATION PUMPED ZNO NANOLASERS</b> .....	860
<i>Richard Hollniser ; Skirmantas Ališauska ; Valentina Shumakova ; Lukas Trefflich ; Robert Röder ; Audrius Pugžlys ; Danil Kartashov ; Andrius Baltuška ; Carsten Ronning ; Christian Spielmann</i>	
<b>ENHANCED ELECTRIC AND MAGNETIC RESPONSE OF A THZ SUB-WAVELENGTH FIBER EXCITED BY A LOCALIZED SOURCE</b> .....	861
<i>Shaghik Atakramians ; Alessio Stefani ; Ilya V. Shardivov ; Andrey E. Miroshinchenko ; Boris T. Kullmeyer ; Heike Ebendorff-Heidepriem ; Tanya M. Monro ; Yuri S. Kivshar ; V. Shakraam Afshar</i>	
<b>INKJET PRINTED NANOCAVITIES ON A PHOTONIC CRYSTAL TEMPLATE</b> .....	862
<i>Frederic S. F. Brossard ; Vincenzo Pecunia ; Andrew J. Ramsay ; Jonathan P. Griffiths ; Maxime Hugues ; Henning Sirringhaus</i>	
<b>STRONG SUPPRESSION OF SURFACE RECOMBINATION IN INGAAS NANOPILLARS</b> .....	863
<i>B. Romeira ; A. Higuera-Rodriguez ; S. Birindelli ; L. E. Black ; E. Smalbrugge ; P. J. Van Veldhoven ; W. M. M. Kessels ; M. K. Smit ; A. Fiore</i>	
<b>MOLECULES IN PLASMONIC NANO-CAVITIES</b> .....	864
<i>Angela Demetriadou ; Jan Mertens ; Anna Lombardi ; Rohit Chikkaraddy ; Felix Benz ; Javier Aizpurua ; Ortwin Hess ; Jeremy J Baumberg</i>	
<b>INTERCAVITY COUPLING RATE CONTROL USING ANCILLARY NANOCAVITIES</b> .....	865
<i>Sergei Sokolov ; Jin Lian ; Sanli Faez ; Sylvain Combrié ; Willem L. Vos ; Alfredo De Rossi ; Allard P. Mosk</i>	
<b>OPTICAL TIME DOMAIN DEMULTIPLEXING USING FANO RESONANCE IN INP PHOTONIC CRYSTALS</b> .....	866
<i>D. A. Bekele ; Y. Yu ; H. Hu ; P. -Y. Bony ; L. Ottaviano ; L. K. Oxenlowe ; K. Yvind ; J. Mork</i>	
<b>EXTRAORDINARY HIGH-HARMONIC GENERATION FROM PLASMONS IN NANOSTRUCTURED GRAPHENE</b> .....	867
<i>Joel D. Cox ; Andrea Marini ; F. Javier García De Abajo</i>	
<b>EFFICIENT HARMONIC GENERATION IN HIGH-Q GALLIUM NITRIDE PHOTONIC CRYSTAL CAVITIES ON SILICON</b> .....	868
<i>V. Savona ; M. S. A. Mohamed ; A. Simbula ; M. Minkov ; J. -F. Carlin ; D. Gerace ; N. Grandjean ; M. Galli ; R. Houdré</i>	
<b>INTEGRATED NON-LINEAR WAVEGUIDE OPTICS FOR HIGH-EFFICIENCY THZ SOURCES</b> .....	869
<i>K. Marvin Schulz ; Adrian G. C. Rusche ; Jahn Hoffmann ; Jingdong Luo ; Alexander Yu. Petrov ; Manfred Eich</i>	
<b>NONLINEAR MODE SWITCHING IN LITHIUM NIOBATE NANOWAVEGUIDES</b> .....	870
<i>Marc Reig Escalé ; Anton Sergeev ; Reinhard Geiss ; Rachel Grange</i>	
<b>THIRD-HARMONIC GENERATION WITH KERR FREQUENCY COMB IN SILICA ROD MICROCAVITY</b> .....	871
<i>Akihiro Kubota ; Ryo Suzuki ; Shun Fujii ; Takasumi Tanabe</i>	
<b>WAVEGUIDE GRATINGS IN THIN-FILM LITHIUM NIOBATE ON INSULATOR</b> .....	872
<i>Mohammad Amin Baghban ; Jean Schollhammer ; Carlos Errando-Herranz ; Kristinn B. Gylfason ; Katia Gallo</i>	
<b>VISIBLE ARRAYED WAVEGUIDE GRATING (400NM–700NM) FOR ULTRA-WIDE BAND (400–1700NM) INTEGRATED SPECTROMETER FOR SPECTRAL TISSUE SENSING</b> .....	873
<i>Douwe Geuzebroek ; Albert Van Rees ; Edwin Klein ; Katarzyna Lawnczyk</i>	
<b>SILICON PHOTONICS CIRCUITS WITH PROGRAMMABLE MEMORY FUNCTIONALITY</b> .....	874
<i>Junfeng Song ; Xianshu Luo ; Yanzhe Tang ; Qing Fang ; Chao Li ; Lianxi Jia ; Xiaoguang Tu ; Ying Huang ; Haifeng Zhou ; Andy Eu-Jin Lim ; Tsung-Yang Liow ; Guoqiang Lo</i>	
<b>A LOW LOSS BAND-REJECTION AND BAND-PASS FILTER BASED ON SILICON PHOTONIC MULTIMODE BRAGG GRATINGS</b> .....	875
<i>Jianfei Jiang ; Huiye Qiu ; Yan Li ; Gencheng Wang ; Tingge Dai ; Hui Yu ; Jianyi Yang ; Xiaoqing Jiang</i>	
<b>COMPACT TAPERS FOR SILICON GRATING FIBRE-CHIP COUPLERS IN O, C AND L BAND</b> .....	876
<i>Purnima Sethi ; Anubhab Haldar ; Shankar Kumar Selvaraja</i>	
<b>MEMS-BASED WAVELENGTH AND ORBITAL ANGULAR MOMENTUM DEMULTIPLEXER FOR ON-CHIP APPLICATIONS</b> .....	877
<i>Vladimir S. Lyubopytov ; Alexey P. Porfirev ; Stanislav O. Gurbatov ; Sujoy Paul ; Mar-Tin F. Schumann ; Julijan Cesar ; Mohammadreza Malekizandi ; Mohammad T. Haidar ; Martin Wegener ; Arkadi Chipouline ; Franko Küppers</i>	
<b>HIGH EXTINCTION RATIO POLARIZATION SELECTIVE TE/TM BRAGG GRATINGS FILTERS ON SILICON-ON-INSULATOR</b> .....	878
<i>Charalambos Klitis ; Giuseppe Cantarella ; Michael J. Strain ; Marc Sorel</i>	
<b>SPIN-CONTROLLED MULTIFUNCTIONAL METASURFACES</b> .....	879
<i>Elhanan Maguid ; Igor Yulevich ; Michael Yannai ; Vladimir Kleiner ; Mark L. Brongersma ; Erez Hasman</i>	

<b>PACKAGED INLINE METASURFACE POLARIMETERS WITH IN-PLANE AND OUT-OF-PLANE DETECTION</b> .....	880
<i>Michael Juhl ; Carlos Mendoza ; J. P. Balhassar Mueller ; Federico Capasso ; Kristján Leósson</i>	
<b>HIGHEST EFFICIENCY GRAYSCALE ALL-DIELECTRIC META-HOLOGRAMS</b> .....	881
<i>Lei Wang ; Sergey S. Kruk ; Hanzhi Tang ; Tao Li ; Ivan Kravchenko ; Dragomir Neshev ; Yuri Kivshar</i>	
<b>ALL-DIELECTRIC METAMATERIAL SUPERLENSES: A NEW ROUTE TO NEAR-PERFECT LENSES</b> .....	882
<i>Zengbo Wang ; Bing Yan ; James Monks ; Liyang Yue</i>	
<b>OPTICAL METAMATERIALS MADE BY POLYMER SELF-ASSEMBLY</b> .....	883
<i>Ullrich Steiner</i>	
<b>WHISPERING GALLERY MICRO-CAVITIES</b> .....	884
<i>Lan Yang</i>	
<b>TRIMMING OF SILICON-ON-INSULATOR MICRO-RING RESONATORS BY LASER IRRADIATION</b> .....	885
<i>Graham J. Sharp ; Charalambos Klitis ; Vera Biryukova ; Barry Holmes ; Marc Sorel</i>	
<b>DISPERSION TAILORING OF A CRYSTALLINE WHISPERING GALLERY MODE MICROCAVITY FOR OPTICAL KERR FREQUENCY COMB GENERATION</b> .....	886
<i>Mika Fuchida ; Hiroki Itohe ; Ryo Suzuki ; Yosuke Nakagawa ; Wataru Yoshiki ; Yuta Mizumoto ; Yasuhiro Kakinuma ; Shoko Okuda ; Hiroyuki Sasada ; Takasumi Tanabe</i>	
<b>DESIGN OF NBN SUPERCONDUCTING NANOWIRE SINGLE PHOTON DETECTORS WITH ENHANCED INFRARED PHOTON DETECTION EFFICIENCY</b> .....	887
<i>Q. Wang ; J. J. Renema ; A. Engel ; M. J. A. De Dood</i>	
<b>PERFORMANCE ANALYSIS OF SLOW LIGHT STRUCTURES FOR KERR NONLINEARITY ENHANCEMENT IN SILICON NITRIDE WAVEGUIDES</b> .....	888
<i>Seyedreza Hosseini ; Kambiz Jamshidi</i>	
<b>HETEROGENEOUS HI-V/SI<sub>3</sub>N<sub>4</sub> INTEGRATION FOR QUANTUM PHOTONIC CIRCUITS</b> .....	889
<i>M. Davanco ; J. Liu ; L. Sapienza ; C. -Z. Zhang ; J. V. De Miranda Cardoso ; V. Verma ; R. Mirin ; S. W. Nam ; L. Liu ; K. Srinivasan</i>	
<b>SOLITON KERR FREQUENCY COMBS WITH OCTAVE BANDWIDTH IN INTEGRATED SI<sub>3</sub>N<sub>4</sub> MICRORESONATORS</b> .....	890
<i>M. H. P. Pfeiffer ; C. Herkommer ; J. Liu ; H. Guo ; M. Karpov ; M. Zervas ; T. J. Kippenberg</i>	
<b>LARGE EFFECTIVE <math>\chi^{(2)}</math> NONLINEARITY ON A SI<sub>3</sub>N<sub>4</sub>-CHIP</b> .....	891
<i>S. Ramelow ; A. Farsi ; S. Clemmen ; X. Ji ; M. Lipson ; A. Gaeta</i>	
<b>THREE-DIMENSIONAL MODES OF THREE-DIMENSIONAL MICROLASERS</b> .....	892
<i>N. Sobeshchuk ; M. Guidry ; S. Bittner ; D. Decanini ; O. Baron ; J. Scheuer ; J. Zyss ; M. Lebental</i>	
<b>EXCITATION OF SHORT-RANGE SURFACE-PLASMON POLARITONS IN A GOLD NANOWIRE ENHANCED STEP-INDEX FIBER</b> .....	893
<i>Alessandro Tuniz ; Jan Dellith ; Stefan Weidlich ; Markus A. Schmidt</i>	
<b>DEEPLY SUB-WAVELENGTH COHERENT ABSORPTION IN OPTICALLY THICK ENZ FILMS</b> .....	894
<i>Vincenzo Bruno ; Stefano Vezzoli ; Thomas Roger ; Clayton Devault ; Marcello Ferrera ; Vladimir Shalaev ; Alexandra Boltasseva ; Daniele Faccio</i>	
<b>FUNDAMENTALLY CANCEL BACKSCATTERING IN SILICON MICRORINGS</b> .....	895
<i>Ang Li ; Wim Bogaerts</i>	
<b>AN ANTIREFLECTION TRANSPARENT CONDUCTOR WITH ULTRALOW OPTICAL LOSS AND HIGH ELECTRICAL CONDUCTANCE</b> .....	896
<i>Rinu Abraham Maniyara ; Vahagn K. Mkhitarian ; Tong Lai Chen ; Dhriti Sundar Ghosh ; Valerio Pruneri</i>	
<b>ULTRA-LOW-POWER STRESS-BASED PHASE ACTUATOR FOR MICROWAVE PHOTONICS</b> .....	897
<i>Jörn P. Epping ; Denys Marchenko ; Arne Leinse ; Richard Mateman ; Marcel Hoekman ; Lennart Wevers ; Edwin J. Klein ; Chris G. H. Roeloffzen ; Matthijn Dekkers ; René G. Heideman</i>	
<b>ON-CHIP QUANTUM PHOTONICS — TOWARDS COMMERCIAL APPLICATIONS</b> .....	898
<i>P. Lodahl</i>	
<b>TWO DIMENSIONAL OPTOMECHANICAL CRYSTALS FOR QUANTUM OPTOMECHANICS</b> .....	899
<i>Hannes Pfeiffer ; Hengjiang Ren ; Greg Maccabe ; Oskar Painter</i>	
<b>PHASE-FRONT SHAPING OF EXTENDED BEAMS IN WAVEGUIDE ARRAYS</b> .....	900
<i>Jean-Marie Moisson ; Christophe Dupuis ; Christophe Minot ; Nadia Belabas</i>	
<b>RESONANT PHOTON PAIR GENERATION IN COUPLED SILICON PHOTONIC CRYSTAL NANOCAVITIES</b> .....	901
<i>Nobuyuki Matsuda ; Eiichi Kuramochi ; Hiroki Takesue ; Kaoru Shimizu ; Masaya Notomi</i>	
<b>PLASMON EXCITON-POLARITON LASING</b> .....	902
<i>Mohammad Ramezani ; Alexei Halpin ; Johannes Feist ; Antonio Fernández-Domínguez ; Saïd Rahimzadeh-Kalaleh Rodríguez ; Francisco J. Garcia-Vidal ; Jaime Gómez-Rivas</i>	
<b>IN-FIBRE FABRY-PÉROT MICRORESONATOR WITH 140 MILLION Q-FACTOR</b> .....	903
<i>Ewelina Obrzud ; Steve Lecomte ; Tobias Herr</i>	
<b>SILICON FIBRE NANO-SPIKE FOR ROBUST COUPLING TO SILICA FIBRES</b> .....	904
<i>H. Ren ; A. F. J. Runge ; J. Campling ; M. Jones ; T. Hawkins ; J. Ballato ; P. Horak ; U. Gibson ; A. C. Peacock</i>	
<b>ELECTRO-OPTICAL ENHANCED PHOTONIC CRYSTAL FIBER-TIP SENSOR BASED ON LINBO<sub>3</sub> FOR E-FIELD DETECTION</b> .....	905
<i>Venancio Calero ; Miguel Suárez ; Roland Salut ; Alexis Caspar ; Florent Behague ; Nadège Courjal ; Fadi Issam Baida ; Maria-Pilar Bernal</i>	
<b>SI NANOWIRE WAVEGUIDE COUPLED CURRENT-DRIVEN PHOTONIC-CRYSTAL LASERS</b> .....	906
<i>Koji Takeda ; Takuro Fujii ; Akihiko Shinya ; Tai Tsuchizawa ; Hidetaka Nishi ; Eiichi Kuramochi ; Masaya Notomi ; Koichi Hasebe ; Takaaki Kakitsuka ; Shinji Matsuo</i>	

<b>GAAS-BASED NANOWIRES PARTIALLY COVERED WITH GOLD GIVE RISE TO OPTICAL CIRCULAR DICHROISM</b> .....	907
<i>Alessandro Belardini ; Grigore Leahu ; Emilija Petronijevic ; Marco Centini ; Rober-To Li Voti ; Concita Sibilla ; Teemu Hakkarainen ; Eero Koivusalo ; Marcelo Rizzo Piton ; Soile Suomalainen ; Mircea Guina</i>	
<b>WAVELENGTH-MULTIPLEXED SPECTROMETER BASED ON SILICON NANOWIRE PHOTODETECTOR ARRAY</b> .....	908
<i>Jiajun Meng ; Shiqiang Li ; Kenneth B. Crozier</i>	
<b>ROBUST AND FINELY CONTROLLED COUPLING COEFFICIENT FOR WAVEGUIDE ARRAYS WITH SUB-WAVELENGTH NANOSTRUCTURED WAVEGUIDES</b> .....	909
<i>A. Talneau ; N. Belabas</i>	
<b>STRUCTURED GRAPHENE FABRICATED BY LASER DIRECT WRITING BEYOND THE DIFFRACTION LIMIT</b> .....	910
<i>Bin Shi ; Xiaodan Xu ; Xinzheng Zhang ; Mengxin Ren ; Wei Cai ; Jingjun Xu</i>	
<b>ELECTRICAL MANIPULATION OF DYE-DOPED LIQUID CRYSTAL RANDOM LASER WITHIN PHOTONIC CRYSTAL FIBER</b> .....	911
<i>Li-Hao Jian ; Chien-Hsing Chen ; Ja-Hon Lin ; Jin-Jei Wu ; Yao-Hui Chen ; Shwu-Yun Tsay</i>	
<b>DETERMINATION OF RADIAL QUANTUM DOT POSITION IN TRUMPET NANOWIRES FROM FAR FIELD MEASUREMENTS</b> .....	912
<i>Andreas D. Osterkryger ; Niels Gregersen ; Romain Fons ; Petr Stepanov ; Tomasz Jakubczyk ; Joel Bleuse ; Jean-Michel Gerard ; Julien Claudon</i>	
<b>ANOMALOUS SPECTRAL BEHAVIOUR OF WEAKLY-FUSED OPTICAL FIBRE COUPLERS WITH SUB-MICRON DIAMETERS</b> .....	913
<i>Rand Ismael ; Wanvisa Talataisong ; Marcelo A. Gouveia ; Martynas Beresna ; Gilberto Brambilla</i>	
<b>TOWARDS AN ULTRAFAST LASER INSCRIBED ASTRONOMICAL NULLING INTERFEROMETER IN THE MID-INFRARED</b> .....	914
<i>Thomas Gretzinger ; Simon Gross ; Alexander Arriola ; Peter G. Tuthill ; Michael J. Withford</i>	
<b>MULTIPLEXING PHOTONIC DEVICES INTEGRATED ON A SILICON/GERMANIUM PLATFORM FOR MID-INFRARED GAS SENSING</b> .....	915
<i>P. Labeye ; A. Koshkinbayeva ; M. Dupoy ; P. Barritault ; O. Lartigue ; M. Fournier ; J. M. Fedeli ; S. Garcia ; S. Nicoletti ; L. Duraffourg</i>	
<b>THREE DIMENSIONAL WHISPERING GALLERY MODE RESONATORS AND MICROLASERS MADE BY A COMBINATION OF DIRECT LASER WRITING AND SOFT NANOIMPRINT LITHOGRAPHY</b> .....	916
<i>Philipp Brenner ; Ofer Bar-On ; Tobias Stegle ; Tobias Leonhard ; Raz Gvishi ; Carsten Eschenbaum ; Heinz Kalt ; Jacob Scheuer ; Uli Lemmer</i>	
<b>EFFICIENT SOLID-STATE LIGHT-MATTER INTERFACES BASED ON DIELECTRIC SLOT WAVEGUIDES AND DIAMOND COLOUR CENTERS</b> .....	917
<i>Martin Zeitlmair ; Peter Fischer ; Philipp Altpeter ; Markus Weber ; Harald Weinfurter</i>	
<b>CONTROLLING MOLECULAR VIBRATIONS IN RESONANT SURFACE-ENHANCED RAMAN SCATTERING</b> .....	918
<i>Tomas Neuman ; Ruben Esteban ; Geza Giedke ; Mikola Schmidt ; Javier Aizpurua</i>	
<b>BINARY BIREFRINGENCE IN FERROELECTRIC SUPER-CRYSTALS</b> .....	919
<i>M. Ferraro ; D. Pierangeli ; M. Flammini ; F. Di Mei ; G. Di Domenico ; A. J. Agranat ; E. Delre</i>	
<b>MICROSTRUCTURED LIGHT CONTROL WITH PHASE-ONLY SPATIAL LIGHT MODULATORS: FROM CALIBRATION TO PHASE AND AMPLITUDE ENCODING</b> .....	920
<i>Miguel Carbonell-Leal ; Omel Mendoza-Yero ; Lluís Martínez-León ; Gladys Mínguez-Vega ; Mercedes Fernández-Alonso ; Carlos Doñate ; Jesús Lancis</i>	
<b>THE ORIGIN AND LIMIT OF ASYMMETRIC TRANSMISSION IN CHIRAL RESONATORS</b> .....	921
<i>P. Nikhil ; F. Alpegiani ; L. Kuipers ; E. Verhagen</i>	
<b>ANALYTICAL DESCRIPTION OF NONLINEAR PLASMONIC PHENOMENA IN NANOSTRUCTURED GRAPHENE</b> .....	922
<i>Joel D. Cox ; Renwen Yu ; F. Javier García De Abajo</i>	
<b>NON-DIFFRACTION BLOCH MODES IN LOW-SYMMETRIC PHOTONIC CRYSTALS</b> .....	923
<i>M. Gumus ; I. H. Giden ; M. Turdudiev ; H. Kurt</i>	
<b>SPATIAL FILTERING UNDER DEMAND WITH PHOTONIC QUASI-CRYSTALS</b> .....	924
<i>Darius Gailevicius ; Vytautas Purlys ; Roaldas Gadonas ; Kestutis Staliunas</i>	
<b>TERAHERTZ ANGULAR MOMENTUM MULTIPLEXING ON A MICROCHIP</b> .....	925
<i>Haoran Ren ; Min Gu</i>	
<b>SINGLE Si3N4 MICRO RING RESONATOR AS INTEGRATED WAVELENGTH METER WITH LONG-TERM REPRODUCIBILITY</b> .....	926
<i>Caterina Taballione ; Temtope Agbana ; Gleb Vdovine ; Marcel Hoekman ; Lennart Wevers ; Jeroen Kalkman ; Michel Verhaegen ; Peter J. M. Van Der Slot ; Klaus-Jochen Boller</i>	
<b>NEAR FIELD SINGLE PHOTON PROBE FOR PLASMONICS NANOSTRUCTURES</b> .....	927
<i>Rabeah Jazi ; Benoit Dubertret ; Jean-Pierre Hermier ; Xavier Quélin ; Stéphanie Buil</i>	
<b>ENHANCED DUAL BEAM GENERATION PROCESSES IN A TWO-DIMENSIONAL <math>\chi^{(2)}</math> NONLINEAR PHOTONIC CRYSTAL</b> .....	928
<i>Hocine Chikh-Touami ; Azzedine Boudrioua ; Regis Kremer ; Hsi-Jung Lee ; Min Won Lee ; Lung-Han Peng</i>	
<b>BRIGHT SYNCHROTRON RADIATION FROM NANO-FOREST TARGETS</b> .....	929
<i>Zsolt Lécz ; Alexander Andreev</i>	
<b>BIREFRINGENCE-FREE LITHIUM NIOBATE WAVEGUIDES</b> .....	930
<i>Jean Schollhammer ; Mohammad Amin Baghban ; Katia Gallo</i>	

<b>FINITE SIZE SCALING OF THE DENSITY OF STATES IN PHOTONIC BAND GAP CRYSTALS</b> .....	931
<i>Shakeeb Bin Hasan ; Elahe Yeganegi ; Allard P. Mosk ; Ad Lagendijk ; Willem L. Vos</i>	
<b>REFLECTIVE GEOMETRIC PHASE IN LIQUID CRYSTAL PHOTONICS</b> .....	932
<i>Raouf Barboza ; Stefania Residori ; Umberto Bortolozzo ; Marcel G. Clerc</i>	
<b>FEMTOSECOND PULSE PROPAGATION AND SPLITTING IN A PT-SYMMETRIC 1D PHOTONIC CRYSTALS</b> .....	933
<i>D. M. Tsvetkov ; V. A. Bushuev ; V. V. Konotop ; B. I. Mantsyzov</i>	
<b>NUMERICAL ANALYSIS OF PLASMONIC NANOSTAR-WHISPERING GALLERY MODE HYBRID MICRORESONATOR</b> .....	934
<i>Roman Guliaev ; Jolly Xavier ; Frank Vollmer</i>	
<b>TWO-DIMENSIONAL FIVEFOLD PHOTONIC CRYSTAL MICRO-CAVITY</b> .....	935
<i>Taojie Zhou ; Jie Zhou ; Jiagen Li ; Kebo He ; Zhaoyu Zhang</i>	
<b>LIFETIME DEPENDENCE ON CARRIER DENSITY IN SILICON NANOWIRES</b> .....	936
<i>I. Aldaya ; A. Gil-Molina ; J. L. Pita ; H. L. Fragnito ; P. Dainese</i>	
<b>PURCELL EFFECT OF MAGNETIC DIPOLES IN NANOFIBERS</b> .....	937
<i>V. S. Afshar ; S. Atakaramians ; F. Dong ; A. Miroshnichenko ; I. Shadrivov ; Y. Kivshar ; T. M. Monro</i>	
<b>ZERO-CONTRAST GRATING FILTERS FOR PIXELATED APPLICATIONS IN THE MID-IR RANGE</b> .....	938
<i>Leopold Macé ; Oliver Gauthier-Lafaye ; Antoine Monmayrant ; Henri Camon ; Benjamin Portier ; Fabien Pradal ; Adrien Hervy ; Hervé Leplan</i>	
<b>PHOTON MANAGEMENT IN ORGANIC LIGHT-EMITTING DIODES WITH MULTILAYERED PLASMONIC NANOSTARS</b> .....	939
<i>Battulga Munkhbat ; Hannes Pöhl ; Johannes Ziegler ; Christian Wörster ; Dmitry Sivun ; Patrick Denk ; Thomas A. Klar ; Markus C. Scharber ; Calin Hrelescu</i>	
<b>FROM COHERENT RAMAN MICROSCOPY TO COHERENT RAMAN ENDOSCOPY</b> .....	940
<i>Hervé Rigneault</i>	
<b>PARASITIC SIGNALS IN HOLLOW-CORE FIBERS USED FOR SRS ENDOSCOPY</b> .....	941
<i>Alberto Lombardini ; Vasyil Mytskaniuk ; Alexandre Kudlinski ; Olivier Vanvincq ; Ingo Rinke ; Esben Ravn Andresen ; Hervé Rigneault</i>	
<b>GENERATION OF BROAD-BAND BESSEL BEAMS WITH AN SLM</b> .....	942
<i>L. Froehly ; F. Courvoisier ; M. Jacquot ; R. Giust ; L. Furfaro ; J. M. Dudley</i>	
<b>RAPID SPECTRO-POLARIMETRY TO PROBE MOLECULAR SYMMETRY IN MULTIPLEX COHERENT ANTI-STOKES RAMAN SCATTERING</b> .....	943
<i>Thomas Würthwein ; Maximilian Brinkmann ; Tim Hellwig ; Carsten Fallnich</i>	
<b>COHERENT SPATIO-TEMPORAL CONTROL OF PULSED LIGHT THROUGH MULTIPLE SCATTERING MEDIA</b> .....	944
<i>Michael Mounaix ; Hugo Defienne ; Daria Andreoli ; Giorgio Volpe ; Ori Katz ; Samuel Grésillon ; Sylvain Gigan</i>	
<b>MULTIPHOTON IMAGING OF THICK SAMPLES COMBINING AXICONS AND SPHERICAL ABERRATION</b> .....	945
<i>Juan M. Bueno ; Geovanni Hernández ; Martin Skorsetz ; Pablo Arial</i>	
<b>POCKET MODULE FOR SINGLE BEAM OFF-AXIS DIGITAL HOLOGRAPHY MICROSCOPY</b> .....	946
<i>B. Mandracchia ; V. Bianco ; Z. Wang ; M. Paturzo ; A. Bramanti ; G. Pioggia ; P. Ferrare</i>	
<b>FLUORESCENT ON-CHIP IMAGER BY USING A TUNABLE ABSORPTION FILTER</b> .....	947
<i>Çağlar Arpalı ; Ender Yildirim ; Serap Altay Arpalı</i>	
<b>POINT-SPREAD-FUNCTION ENGINEERING THROUGH A COMPLEX MEDIUM</b> .....	948
<i>Michael Mounaix ; Antoine Boniface ; Baptiste Blochet ; Rafael Piestun ; Sylvain Gigan</i>	
<b>OPTICAL RESOLUTION PHOTOACOUSTIC IMAGING OF MULTIPLE PROBES VIA SINGLE FIBER LASER WITH INDEPENDENTLY ADJUSTABLE PARAMETERS</b> .....	949
<i>Seydi Yavas ; E. A. Kiperçil ; N. Uluc ; A. Demirkiran ; T. Kayıkcıoğlu ; H. S. Salman ; S. G. Karamuk ; M. B. Unlu ; F. O. Ilday</i>	
<b>GUIDED MODE RESONANCE IMAGING — A NOVEL SENSING TECHNIQUE TO STUDY BACTERIAL BIOFILM ANTIBIOTIC RESISTANCE</b> .....	950
<i>Yue Wang ; Christopher P. Reardon ; Nicholas Read ; Graham J. Triggs ; Thomas F. Krauss</i>	
<b>HYPERSPECTRAL IMAGING OF DRUG DELIVERY</b> .....	951
<i>Maike Windbergs</i>	
<b>DIRECT VISUALIZATION OF A SMALL-MOLECULE DRUG BY PHASE-MODULATED STIMULATED RAMAN SCATTERING MICROSCOPY</b> .....	952
<i>Terumasa Ito ; Yuki Obara ; Kazuhiko Misawa</i>	
<b>DIFFUSION MEASUREMENT OF ANESTHETIC MOLECULES USING COHERENT ANTI-STOKES RAMAN SCATTERING MICROSCOPY</b> .....	953
<i>Kota Matsuura ; Terumasa Ito ; Yuki Obara ; Kazuhiko Misawa</i>	
<b>PUMP-PROBE AND STIMULATED RAMAN SCATTERING IMAGING BY MEANS OF AN ULTRA-FAST ACOUSTO-OPTICS DELAY LINE</b> .....	954
<i>Xavier Audier ; Naveen Balla ; Hervé Rigneault</i>	
<b>PORTABLE SERDS SYSTEM FOR THE DETECTION OF CAROTENES IN HUMAN SKIN</b> .....	955
<i>Marcel Braune ; Bernd Eppich ; Martin Maiwald ; Bernd Sumpf ; Günther Tränkle</i>	
<b>VERTICAL ADIABATIC TAPER FOR EFFICIENT IN-COUPPLING IN NANO-INTERFEROMETRIC WAVEGUIDE BIOSENSORS</b> .....	956
<i>Daniel Grajales ; Adrián Fernández Gavela ; Carlos Domínguez ; Laura M. Lechuga</i>	
<b>REMOTE OPTICAL SENSOR FOR DETECTION OF MIDDLE EAR EFFUSION</b> .....	957
<i>Nisan Ozana ; Ran Califa ; Ariel Schwarz ; Noga Lipschitz-Tayar ; Michael Wolf ; Zeev Zalevsky</i>	



<b>LIGHT PROPAGATION IN PEPTIDE-BASED OPTICAL WAVEGUIDES</b> .....	958
<i>Amir Handelman ; Boris Apter ; Gil Rosenman</i>	
<b>EVANESCENCE SINGLE-MOLECULE BIOSENSING WITH QUANTUM LIMITED PRECISION</b> .....	959
<i>N. P. Mauryanpin ; M. A. Taylor ; L. S. Madsen ; M. Waleed ; W. P. Bowen</i>	
<b>RHEOLOGICAL STUDY OF A DNA TRANSIENT NETWORK BY OPTOPHORESIS</b> .....	960
<i>V. Vitali ; G. Nava ; T. Yang ; F. Bragheri ; R. Osellame ; T. Bellini ; I. Cristiani ; P. Minzioni</i>	
<b>DETECTING METABOLIC CARBON DIOXIDE USING A TUNABLE LASER FOR NON-INVASIVE MONITORING OF GROWTH OF BACTERIAL PATHOGENS</b> .....	961
<i>A. S. Zarin ; Arup Lal Chakraborty ; Abhishek Upadhyay</i>	
<b>3D PRINTING OF MICROLENSES FOR ABERRATION CORRECTION IN GRIN MICROENDOSCOPES</b> .....	962
<i>Andrea Antonini ; Serena Bovetti ; Claudio Moretti ; Francesca Succol ; Vijayakumar P. Rajamanickam ; Andrea Bertoncini ; Tommaso Fellin ; Carlo Liberale</i>	
<b>DIGITAL HOLOGRAPHY OF TOTAL INTERNAL REFLECTION TO IMAGE CELL/SUBSTRATE CONTACTS</b> .....	963
<i>B. Mandracchia ; O. Gennari ; M. Paturzo ; P. Ferrara</i>	
<b>LASER INDUCED FORWARD TRANSFER OF LIVING CELLS USING FEMTOSECOND LASER PULSES</b> .....	964
<i>Jun Zhang ; Bastian Hartmann ; Gabriele Marchi ; Hauke Clausen-Schaumann ; Heinz Huber ; Stefanie Sudhop</i>	
<b>CORRELATIVE INVESTIGATIONS OF BIOLOGICAL SPECIMENS USING LABEL FREE FAR-FIELD AND NEAR-FIELD MICROSCOPY TECHNIQUES</b> .....	965
<i>Stefan G. Stanciu ; Juan M. Bueno ; Denis E. Tranca ; Francisco J. Ávila ; Radu Hristu ; George A. Stanciu</i>	
<b>IMPROVED EDGE DETECTION OF REGIONS ENRICHED WITH GOLD NANORODS INSIDE BIOLOGICAL PHANTOM</b> .....	966
<i>Yossef Danan ; Moshe Sinvani ; Zeev Zalevsky</i>	
<b>180 FS HIGH POWER MEGAHERTZ YTTERBIUM FIBER CHIRPED PULSE AMPLIFIER FOR IN-VIVO HIGH-SPEED FUNCTIONAL IMAGING</b> .....	967
<i>A. J. Verhoef ; R. Prevedel ; A. J. Pernía-Andrade ; S. Weisenburger ; B. S. Huang ; T. Nöbauer ; J. E. Delcour ; P. Golshani ; R. Leitgeb ; A. Baltuska ; A. Vaziri ; A. Fernández</i>	
<b>ENHANCEMENT OF OPTICAL ENERGY DELIVERY THROUGH STRONGLY SCATTERING MEDIA BY WAVEFRONT SHAPING TECHNIQUES</b> .....	968
<i>Alba M. Paniagua-Diaz ; William L. Barnes ; Jacopo Bertolotti</i>	
<b>GASTRIC MYXOMA IMAGING WITH SWEEP SOURCE OPTICAL COHERENCE TOMOGRAPHY</b> .....	969
<i>Site Luo ; Li Huo ; Hao Liu ; Xinguo Li ; Xin An ; Hui Zhao ; Huikai Xie</i>	
<b>IN VITRO EXPERIMENTAL RESULTS USING AUTOFLUORESCENCE SPECTROSCOPY TO ASSESS RF ABLATION OF BOVINE HEART</b> .....	970
<i>Argyrios Tsatsakoulas ; Karina S. Litvinova ; Francisco Leyva ; Edik U. Rafailov</i>	
<b>ENGINEERING OF SOLUTION-BASED LOCALIZED SURFACE PLASMON RESONANCE PLATFORM FOR DENGUE DIAGNOSIS</b> .....	971
<i>Gabrielli M. F. De Oliveira ; Sajid Farooq ; Rosa F. Dutra ; Renato E. De Araujo</i>	
<b>OPTICAL ELECTROPHYSIOLOGY: FEMTOSECOND LASER FACILITATED ELECTROPHYSIOLOGICAL MEASUREMENTS FROM SINGLE CELLS</b> .....	972
<i>Ali Aytac Seymen ; Erol Özgür ; Biilend Ortaç</i>	
<b>LOCAL ENHANCEMENT OF MULTIPHOTON IMAGES OF SKIN CANCER TISSUES USING POLARIMETRY</b> .....	973
<i>Francisco J. Ávila ; Stefan G. Stanciu ; Mariana Costache ; Juan M. Bueno</i>	
<b>EVALUATING THE USE OF SILICA COATED GOLD NANOSHELL ON METAL ENHANCED SINGLET OXYGEN GENERATION</b> .....	974
<i>Sajid Farooq ; Renato E. De Araujo</i>	
<b>A COMPACT, HIGH RESOLUTION MULTICHANNEL OPTICAL INTERROGATOR BASED ON AN INTEGRAL FIELD SPECTROMETER FOR LABEL-FREE MONITORING OF TOXINS IN OCEANIC WATER</b> .....	975
<i>H. Von Hörsten ; S. Guillemet ; N. Van Impe ; M. Denti ; G. Fernandes ; F. Dortu ; Y. Hernandez ; P. Ciaurriz ; I. Cornago ; E. Teiletxea ; F. Fernandez</i>	
<b>1070 NM FIBER LASER AND SOFT TISSUES ORAL SURGERY: EX VIVO STUDY WITH FBG TEMPERATURE RECORDING</b> .....	976
<i>Carlo Fornaini ; Federica Poli ; Elisabetta Merigo ; Stefano Selleri ; Chiara Cavatorta ; Annamaria Cucinotta</i>	
<b>OPTICAL SPR SENSOR DESIGNED FOR SMARTPHONES</b> .....	977
<i>K. Bremer ; J. Walter ; M. Rahlves ; T. Scheper ; B. Roth</i>	
<b>STUDY OF CONTACT METHOD OF 2-<math>\mu</math>M LASER RADIATION IMPACT ON BIOLOGICAL TISSUES</b> .....	978
<i>S. A. Filatova ; A. S. Skobeltsin ; I. A. Shcherbakov ; V. B. Tsvetkov</i>	
<b>VISCOELASTIC POLYMER JETS INDUCED BY BLISTER-ACTUATED LASER-INDUCED FORWARD TRANSFER (BA-LIFT)</b> .....	979
<i>Emre Turkoz ; Antonio Perazzo ; Hyoungsoo Kim ; Howard A. Stone ; Craig B. Arnold</i>	
<b>SYNTHESIS OF TIN BASED VOLUMETRIC ABSORBER NANOFUID BY FEMTOSECOND LASER RADIATION</b> .....	980
<i>Rafael Torres-Mendieta ; Rosa Mondragón ; Verónica Puerto-Belda ; Omel Mendoza-Yero ; Jesús Lands ; Jose E. Juliá ; Gladys Mínguez-Vega</i>	
<b>YTTERBIUM-DOPED MIXED SESQUIOXIDES GROWN BY PULSED LASER DEPOSITION</b> .....	981
<i>Jake J. Prentice ; James A. Grant-Jacob ; Stephen J. Beecher ; David P. Shepherd ; Robert W. Eason ; Jacob I. Mackenzie</i>	

<b>IN-SITU MORPHOLOGY AND TEMPERATURE MONITORING OF LASER BASED METAL ADDITIVE MANUFACTURING FOR DEFECT DETECTION</b> .....	982
<i>Stephen G. L. Nestor ; Jordan A. Kanko ; Allison P. Sibley ; James M. Fraser</i>	
<b>LASER INDUCED FORWARD TRANSFER: TOWARDS DIGITAL NANOPRINTING</b> .....	983
<i>Q. Li ; D. Puerto ; E. Biver ; D. Grojo ; A. -P. Alloncle ; Ph. Delaporte</i>	
<b>TIME-RESOLVED INVESTIGATIONS OF LASER-DIELECTRIC INTERACTION MECHANISMS</b> .....	984
<i>Stéphane Guizard ; Allan Bildé ; Sergei Klimentov ; Andrius Melninkaitis ; Julius Vaicenavicius ; Balys Momgaudis ; Nikita Fedorov</i>	
<b>OPTICAL DYNAMICS IN ULTRA-SHORT LASER PULSE IRRADIATED COPPER REVEALED BY SIMULATION AND EXPERIMENTAL MEASUREMENT WITH TIME-RESOLVED PUMP-PROBE ELLIPSOMETRY</b> .....	985
<i>Jan Winter ; Stephan Rapp ; Heinz P. Huber ; Michael Schmidt</i>	
<b>ULTRAFAST PUMP-PROBE ELLIPSOMETRIC MEASUREMENTS OF TRANSIENT OPTICAL PROPERTIES IN METALS DURING LASER ABLATION</b> .....	986
<i>Stephan Rapp ; Jan Winter ; Heinz P. Huber ; Michael Schmidt</i>	
<b>LASER WRITING WITH SUB-NANOSECOND BURST OF FEMTOSECOND PULSES USING STRAIN ACCUMULATION</b> .....	987
<i>Andrey Okhrimchuk ; Sergey Fedotov ; Ivan Glebov ; Vladimir Sigaev ; Peter Kazansky</i>	
<b>INFLUENCE OF LASER WAVELENGTH ON DIRECT LASER WRITING THRESHOLDS</b> .....	988
<i>Vytautas Purlys ; Darius Gailėvicius ; Ignas Stasevicius ; Vladislava Voiciuk ; Saulius Vaisiunas ; Roaldas Gadonas</i>	
<b>INFLUENCE OF AIR AMBIENCE ON FEW-CYCLE LASER PULSE ABLATION OF THE SURFACE OF DIELECTRICS</b> .....	989
<i>C. Pasquier ; M. Sentis ; O. Utéza ; N. Sanner</i>	
<b>SCULPTURED ULTRASHORT LASER WAVE PACKETS FOR ADVANCED MATERIALS ENGINEERING</b> .....	990
<i>Stelios Tzortzakis</i>	
<b>CRACK FORMATION AND CLEAVING OF SAPPHIRE WITH ULTRAFAST BESSEL BEAMS</b> .....	991
<i>L. Rapp ; R. Meyer ; L. Furfaro ; C. Billet ; R. Giust ; F. Courvoisier</i>	
<b>HIGHER-ORDER BESSEL-LIKE BEAMS FOR OPTIMIZED ULTRAFAST PROCESSING OF TRANSPARENT MATERIALS</b> .....	992
<i>Daniel Flamm ; Klaus Bergner ; Daniel Grossmann ; Julian Hellstern ; Jonas Kleiner ; Michael Jenne ; Stefan Nolte ; Malte Kumkar</i>	
<b>MICRON-PRECISION IN CLEAVING GLASS USING ULTRAFAST HESSEL BEAMS WITH ENGINEERED TRANSVERSE BEAM SHAPES</b> .....	993
<i>R. Meyer ; R. Giust ; J. Saffioui ; P. -A. Lacourt ; L. Furfaro ; J. M. Dudley ; F. Courvoisier</i>	
<b>PULSED BESSEL BEAM-INDUCED HIGH ASPECT RATIO MICROSTRUCTURES ON DIAMOND SUBSTRATE FOR MICROFLUIDICS AND BIOSENSING APPLICATIONS</b> .....	994
<i>Ottavia Jedrkiewicz ; Sanjeev Kumar ; Belen Sotillo ; Monica Bollani ; Andrea Chiappini ; Maurizio Ferrari ; Roberta Ramponi ; Paolo Di Trapani ; Shane M. Eaton</i>	
<b>ULTRAFAST LASER INSCRIBED MODE-GROUP-SELECTIVE 6-MODE PHOTONIC LANTERNS FOR MODE-DIVISION MULTIPLEXING</b> .....	995
<i>Simon Gross ; Martin Ams ; Sergio G. Leon-Saval ; Michael J. Withford</i>	
<b>OPTICAL WAVEGUIDES WRITTEN DEEP INSIDE SILICON BY FEMTOSECOND LASER</b> .....	996
<i>Ihor Pavlov ; Onur Takel ; Svitlana Pavlova ; Viktor Kadan ; Ghaith Makey ; Ahmet Turnali ; Tahir Colakoglu ; Ozgun Yavuz ; Fatih Omer Ilday</i>	
<b>MULTITRACK WRITING FOR STRAIGHT AND CURVED WAVEGUIDES IN POLYMERS WITH A FEMTOSECOND LASER</b> .....	997
<i>Welm M. Pätzold ; Aghan Demircan ; Uwe Morgner</i>	
<b>MEASURING STELLAR DIAMETERS WITH A COMPACT INTEGRATED PHOTONIC NULLING INTERFEROMETER IN A 8 METER-CLASS TELESCOPE</b> .....	998
<i>Alexander Arriola ; Barnaby Norris ; Nick Cvetojevic ; Simon Gross ; Thomas Gretzinger ; Tiphaine Lagadec ; Jon Lawrence ; Nemanja Jovanovic ; Olivier Guyon ; Michael J. Withford ; Peter Tuthill</i>	
<b>WAVELENGTH TUNING OF THROUGH-COATING-WRITTEN FIBER BRAGG GRATINGS</b> .....	999
<i>Thorsten A. Goebel ; Christian Voigtländer ; Ria G. Krämer ; Christian Matzdorf ; Maximilian Heck ; Daniel Richter ; Andreas Timmermann ; Stefan Nolte</i>	
<b>FEMTOSECOND-PULSE INSCRIPTION OF PHASE-SHIFTED FIBER BRAGG GRATINGS FOR DISTRIBUTED FEEDBACK LASERS</b> .....	1000
<i>Alexey A. Wolf ; Mikhail I. Skvortsov ; Alexandr V. Dostovalov ; Sergey A. Babin</i>	
<b>ULTRASHORT PULSE LASER MATERIALS PROCESSING</b> .....	1001
<i>Stefan Nolte</i>	
<b>COMBINATION OF ADDITIVE AND SUBRACTIVE LASER MICROPROCESSING IN GLASS/POLYMER MICROSYSTEMS FOR CHEMICAL SENSING APPLICATIONS</b> .....	1002
<i>Titas Tickunas ; Matthieu Perrenoud ; Simas Butkus ; Sima Reškėyte ; Mangirdas Malinauskas ; Domas Paipulas ; Roaldas Gadonas ; Yves Bellouard ; Valdas Sirutkaitis</i>	
<b>SOLVING THE PUZZLE OF NON-RECIPROCITY IN ULTRAFAST LASER WRITING</b> .....	1003
<i>Aabid Patel ; Yuri Svirko ; Charles Durfee ; Rakas Drevinskas ; Peter G. Kazansky</i>	
<b>FEMTOSECOND LASER-INDUCED NANOSTRUCTURE INCLUDING NONLINEAR CRYSTALS INSIDE SILICA-BASED GLASS</b> .....	1004
<i>Jing Cao ; Léo Mazerolles ; Matthieu Lancry ; François Brisset ; Bertrand Poumellec</i>	
<b>LASER NANO-PROCESSING OF SILVER-DOPED NANOCOMPOSITE GLASS FOR TAILORED NONLINEAR RESPONSE</b> .....	1005
<i>Svetlana A. Zolotovskaya ; Mateusz A. Tyrk ; Andrei Stalmashonak ; W. Allan Gillespie ; Amin Abdolvand</i>	

<b>COMBINED PLASMONIC AND THERMAL MECHANISM OF LASER-INDUCED NANOSTRUCTURE FORMATION IN SILICON</b> .....	1006
<i>R. Wehner ; R. Grunwald</i>	
<b>PHASE-SEPARATED PERIODIC NANOSTRUCTURE IN AL<sub>2</sub>O<sub>3</sub>-DY<sub>2</sub>O<sub>3</sub> GLASS INDUCED BY FEMTOSECOND LASER IRRADIATION</b> .....	1007
<i>Y. Shimotsuna ; S. Mori ; M. Sakakura ; K. Miura</i>	
<b>DOPPLER EFFECT ON NANOPATTERNING WITH NONLINEAR LASER LITHOGRAPHY</b> .....	1008
<i>Ö. Yavuz ; Semih Kara ; O. Tokel ; I. Pavlov ; F. Ö. Ilday</i>	
<b>PLASMON-LESS RAMAN ENHANCEMENT MECHANISM INDUCED BY DENSE NETWORKS OF NANOPARTICLES PRODUCED BY FEMTOSECOND LASERS</b> .....	1009
<i>Yves Bellouard ; Erica Block ; Jeff Squier ; Jean Gobet</i>	
<b>REPRODUCIBILITY OF ARTIFICIAL MULTIPLE SCATTERING MEDIA</b> .....	1010
<i>Evangelos Marakis ; Wouter Van Harten ; Ravitej Uppu ; Willem L. Vos ; Pepijn W. H. Pinkse</i>	
<b>BIOMIMETIC STRUCTURES ON STEEL VIA SELF-ORGANIZATION PROCESSES IN MULTIPLE-SCAN, FS-LASER IRRADIATED SURFACES</b> .....	1011
<i>Camilo Florian ; Daniel Puerto ; Yasser Fuentes-Edfuf ; Evangelos Skoulas ; Emmanuel Stratakis ; Javier Solis ; Jan Siegel</i>	
<b>CONTROLLING LASER-INDUCED FEATURES MORPHOLOGY ON STAINLESS STEEL SURFACES USING HIGH AVERAGE POWER FEMTOSECOND LASER</b> .....	1012
<i>F. Fraggelakis ; G. Mincuzzi ; J. Lopez ; Inka Manek-Hönniger ; R. Kling</i>	
<b>LASER SURFACE MULTISTRUCTURING OF BIOCOMPATIBLE MATERIALS USING A MICROLENS ARRAY AND THE TALBOT EFFECT</b> .....	1013
<i>María Aymerich ; Daniel Nieto ; Ezequiel Álvarez ; María Teresa Flores-Arias</i>	
<b>NON-THERMAL SELECTIVE PATTERNING OF ITO THIN FILM BY 10 PS LASER</b> .....	1014
<i>Nazar Farid ; Pinaki Dasgupta ; Helios Chan ; David Milne ; Gerard M O'Connor</i>	
<b>FEMTOSECOND LASER INSCRIPTION OF BRAGG GRATINGS FORMED ON A THIN GAN FILM GROWN ON A SAPPHIRE SUBSTRATE</b> .....	1015
<i>Aviran Halstuch ; Ohad Westreich ; Noam Sicron ; Amiel A. Ishaaya</i>	
<b>EXCEEDING THE BULK MODIFICATION THRESHOLD OF SILICON WITH HYPER-FOCUSED INFRARED FEMTOSECOND LASER PULSES</b> .....	1016
<i>Margaux Chanal ; Vladimir Yu Fedorov ; Maxime Chambonneau ; Raphaël Clady ; Olivier Utéza ; Stelios Tzortzakis ; David Grojo</i>	
<b>CRYSTALLINE SILICON (111) NEEDLE FORMED BY OPTICAL VORTEX ILLUMINATION</b> .....	1017
<i>Kai Izumisawa ; Ablimit Abulizi ; Honami Fujiwara ; Yuri Nakamura ; Tatsuyuki Sugimoto ; Katsuhiko Miyamoto ; Takashige Omatsu</i>	
<b>LASER-SLICING OF SILICON WITH 3D NONLINEAR LASER LITHOGRAPHY</b> .....	1018
<i>Onur Tokel ; Ahmet Turnali ; Tahir Çolakoglu ; Serim Ilday ; Mona Zolfaghari Borra ; Ihor Pavlov ; Alpan Bek ; Rasit Turan ; F. Ömer Ilday</i>	
<b>FABRICATION OF AMORPHOUS-CRYSTALLINE MICRO- AND NANOSTRUCTURES IN SILICON USING ULTRASHORT LASER PULSES</b> .....	1019
<i>Yasser Fuentes-Edfuf ; Mario Garcia-Lechuga ; Daniel Puerto ; Camilo Florian ; Adianez Garcia-Leis ; Santiago Sanchez-Cortes ; Javier Solis ; Jan Siegel</i>	
<b>REFRACTIVE INDEX ENGINEERING IN MONOLITHIC CRYSTALLINE SILICON WITH NANOSECOND LASER PULSES</b> .....	1020
<i>Maxime Chambonneau ; Qingfeng Li ; Margaux Chanal ; Nicolas Sanner ; David Grojo</i>	
<b>DIRECT-WRITE WAVEPLATES USING FEMTOSECOND LASERS: CONFINED STRESS STATES FOR NEW POLARIZATION DEVICES</b> .....	1021
<i>Ben McMillen ; Christos Athanasiou ; Yves Bellouard</i>	
<b>VOLUME POLARIZATION GRATINGS INSCRIBED IN GLASS WITH FEMTOSECOND LASERS</b> .....	1022
<i>Antonio Dias ; Alexander Arriola ; Robert R. Thomson ; Miguel Martínez-Calderón ; Miguel Gomez-Aranzadi ; Eduardo Granados ; Ainara Rodriguez ; Santiago M. Olaizola</i>	
<b>CIRCULARLY POLARIZED LIGHTS ILLUMINATION TO FABRICATE HELICAL SURFACE RELIEF IN AZO-POLYMER FILM</b> .....	1023
<i>Keigo Masada ; Shogo Nakanov ; Daisuke Burada ; Katsuhiko Miyamoto ; Takashige Omatsu</i>	
<b>GEOMETRIC PHASE CIRCULAR GRATINGS FABRICATED BY ULTRAFAST LASER NANOSTRUCTURING FOR SYMMETRIC SIMULTANEOUS SPATIO-TEMPORAL FOCUSING</b> .....	1024
<i>Rokas Drevinskas ; Aabid Patel ; Ausra Cerkauskaitė ; Charles G. Durfee ; Peter G. Kazansky</i>	
<b>ULTRAFAST LASER FABRICATION OF BIOMIMETIC MICRO AND NANO STRUCTURED SURFACES WITH CIRCULAR AND VECTORIAL POLARIZATION STATES</b> .....	1025
<i>Antonis Papadopoulos ; Antonis Papadopoulos ; Evangelos Skoulas ; Emmanuel Stratakis</i>	
<b>POLARIZATION CONTROL OF 3D POLYMERISED FEATURES IN FEMTOSECOND DIRECT LASER WRITING</b> .....	1026
<i>Sima Rekštyte ; Darius Gailevicius ; Mangirdas Malinauskas ; Saulius Juodkazis</i>	
<b>LASER ENGINEERING OF THREE-DIMENSIONAL (3D) STRUCTURES IN PAPER-BASED MICROFLUIDIC DEVICES</b> .....	1027
<i>Collin L. Sones ; Peijun J. W. He ; Ioannis N. Katis ; Robert W. Eason</i>	
<b>LASER BASED FABRICATION OF PRECLINICAL DEVICES FOR FLUIDIC EXPERIMENTS</b> .....	1028
<i>María Aymerich ; Ezequiel Álvarez ; Carmen Bao-Varela ; María Teresa Flores-Arias</i>	
<b>LARGE-SCALE PRODUCTION OF SCAFFOLDS FOR STEM CELL EXPANSION FABRICATED BY TWO-PHOTON POLYMERIZATION</b> .....	1029
<i>Tommaso Zandrini ; Davide Ricci ; Michele M. Nava ; Giulio Cerullo ; Roberto Osellame ; Manuela T. Raimondi</i>	

<b>FEMTOSECOND LASER MICROPATTERNING OF CHITOSAN THIN FILMS FOR SURFACE FUNCTIONALIZATION</b> .....	1030
<i>A. Daskalova ; I. Bliznakova ; A. Trifonov ; A. Popatanasov ; H. Declercq ; C. Nathala ; A. Ajami ; W. Husinsky ; I. Buchvarov</i>	
<b>NANOSTRUCTURED FUNCTIONAL POLYMERS FOR SELECTIVE PROTEIN BINDING</b> .....	1031
<i>Bianca Buchegger ; Johannes Kreutzer ; Sandra Mayr ; Richard Wollhofen ; Jaroslav Jacak ; Thomas A. Klar</i>	
<b>LIQUID-ASSISTED PULSED LASER ABLATION: A NOVEL ROUTE TO PRODUCE MULTIFUNCTIONAL CONTRAST AGENTS FOR MULTIMODAL IMAGING DIAGNOSIS</b> .....	1032
<i>Oscar Bomati-Miguel ; Ruth Lahoz ; Vassili Lennikov ; Aida Naghilou ; Ana Subotic ; Miguel Ángel Rodríguez ; Christian Rentenberger ; Wolfgang Kautek</i>	
<b>DIRECT 9.3 μM CO<sub>2</sub> LASER CONSOLIDATION OF FHD SILICA FOR PLANAR DEVICES</b> .....	1033
<i>Paul C. Gow ; Alexander Jantzen ; James C. Gates ; Peter G. R. Smith ; Christopher Holmes</i>	
<b>DOUBLE-PULSE LASER-INDUCED FORWARD TRANSFER OF THIN LIQUID COPPER JET: TOWARD 3D NANO-MANUFACTURING</b> .....	1034
<i>Qingfeng Li ; Anne Patricia Alloncle ; David Grojo ; Philippe Delaporte</i>	
<b>MEASURED AND CALCULATED VOLUME OF METAL SURFACES ABLATED BY FEMTOSECOND LASER</b> .....	1035
<i>Vahan Malkhasyan ; Mohamed Assoul ; Guy Monteil</i>	
<b>CAVITATION DYNAMICS INDUCED BY LASER SUPERFILAMENTS IN WATER</b> .....	1036
<i>V. Juknu ; C. Milián ; A. Mysyrowicz ; A. Couairon ; A. Houard</i>	
<b>SELECTIVE ETCHING OF FS-LASER WRITTEN STRUCTURES IN Y<sub>3</sub>AL<sub>5</sub>O<sub>12</sub></b> .....	1037
<i>Kore Hasse ; Christian Kränkel ; Thomas Calmano</i>	
<b>FABRICATION OF 3D MICROSTRUCTURED SCAFFOLDS BY DIRECT LASER WRITING IN PRE-POLYMERS AND THEIR PERFORMANCE IN CARTILAGE REGENERATION IN VITRO AND IN VIVO</b> .....	1038
<i>Sima Reksyte ; Justinas Maciulaitis ; Romaidas Maciulaitis ; Mangirdas Malinauskas</i>	
<b>MODIFICATION OF MO/SI MULTILAYER COATING BY PROCESSING WITH FS LASER PULSES</b> .....	1039
<i>Sergey Oshemkov ; Vladimir Kruglyakov ; Yuval Perets ; Frederik Blumrich</i>	
<b>SINGLE-SHOT FEMTOSECOND LASER ABLATION OF WIDE-FIELD IRRADIANCE PATTERNS ONTO A SILICON SAMPLE</b> .....	1040
<i>Omel Mendoza-Yero ; Miguel Carbonell-Leal ; Gladys Mínguez-Vega ; Carlos Doñate-Buendía ; Javier R. Vázquez De Aldana</i>	
<b>MASK-LESS LITHOGRAPHY OF DIAMOND FILMS USING SHAPED ULTRAFast UV PULSES</b> .....	1041
<i>Eduardo Granados ; Miguel Martínez-Calderon ; Mikel Gómez ; Ainara Rodríguez ; Richard P. Mildren ; Santiago M. Olazola</i>	
<b>LINKING ENERGY DENSITY WITH MORPHOLOGY IN LASER GROOVING OF SAPPHIRE</b> .....	1042
<i>Haruyuki Sakurai ; Chao He ; Kuniaki Konishi ; Hiroharu Tamaru ; Junji Yumoto ; Makoto Kuwata-Gonokami ; Arnold Gillner</i>	
<b>BURIED WAVEGUIDES WRITTEN DEEP INSIDE SILICON</b> .....	1043
<i>Ahmet Turnali ; Onur Tokel ; Denizhan Koray Kesim ; Ghaith Makey ; Parviz Elahi ; Fatih Ömer Ilday</i>	
<b>TWO-PHOTON DIRECT LASER WRITING OF ULTRA-COMPACT MICRO-LENS SYSTEM FOR FIBER-OPTICAL MAGNETIC MICROSCOPY PROBE</b> .....	1044
<i>Baokai Wang ; Qiming Zhang ; Zhihai Liu ; Min Gu</i>	
<b>OPTIMIZATION OF PICOSECOND LASER PROCESSING FOR MICROSCOPY SAMPLE PREPARATION PRIOR TO ION MILLING POLISHING</b> .....	1045
<i>A. Sikora ; L. Fares ; J. Adrian ; V. Goubier ; A. Delobbe ; A. Corbin ; T. Sarnet ; M. Sentis</i>	
<b>PULSE-WIDTH AND PULSE-ENERGY DEPENDENCE OF SUB-NANOSECOND LASER INDUCED AIR-BREAKDOWN</b> .....	1046
<i>Hwan Hong Lim ; Takunori Taira</i>	
<b>CLEO@EUROPE-EQEC 2017 CHITOSAN MEMBRANES FOR BIODEGRADABLE MICROFLUIDICS</b> .....	1047
<i>Neelam Iqbal ; Antonios D. Anastasiou ; Mostafa El-Raif ; Animesh Jha</i>	
<b>CLEO@EUROPE-EQEC 2017 LIGHT ABSORPTION ENHANCEMENT OF CRYSTALLINE SILICON WAFERS BY DIRECT LASER TEXTURING FOR HETEROJUNCTION SOLAR CELLS</b> .....	1048
<i>David Cauteli ; Andrés Marquez ; Rocío Barrio ; Ignacio Torres ; Sara Lauzurica ; Javier Gandía ; Carlos Molpeceres</i>	
<b>STUDY OF STRESS RELAXATION IN UV REGENERATED FIBER BRAGG GRATINGS</b> .....	1049
<i>M. Lancry ; K. Cook ; J. Cao ; T. Billotte ; B. Poumellec ; J. Canning</i>	
<b>IN-SITU METAL NANOPARTICLE DECORATION ON GRAPHENE SHEETS BY PULSED LASER ABLATION IN LIQUIDS</b> .....	1050
<i>Rafael Torres-Mendieta ; David Ventura-Espinosa ; Sara Sabater ; Jesus Lancis ; Jose A. Mata ; Gladys Mínguez-Vega</i>	
<b>SURFACE TREATMENT OF CONICAL-SHAPED OPTICAL FIBER DEFLECTORS BY USING CO<sub>2</sub> LASER</b> .....	1051
<i>Elif Uzcengiz Simsek ; Bartu Simsek ; Bülelnd Ortaç</i>	
<b>LASER INDUCED SHOCK WAVES: PRESSURE WAVES AND RESIDUAL STRESS IN THIN FILMS</b> .....	1052
<i>R. Ostrowski ; J. Radziejewska ; A. Sarzynski ; A. Ryeck ; K. Czyz ; M. Strzelec ; R. Diduszko</i>	
<b>FEMTOSECOND LASER MICRO-INSRIPTION AND MACHINING FOR HIGH PERFORMANCE LITHIUM NIOBATE PHOTONIC INTEGRATED CIRCUITS</b> .....	1053
<i>Alexander Tronev ; Dmitry Zuev ; Sergey Makarov ; Serguei Stepanov ; Petr Agruzov ; Igor Ilchev ; Alexander Shamray</i>	
<b>FEMTOSECOND LASER ABLATION AT OBLIQUE ANGLE OF INCIDENCE AND ITS APPLICATION TO FLUENCE PROFILING IN FEMTOSECOND LASER FILAMENTS IN AIR</b> .....	1054
<i>Xiao-Long Liu ; Weibo Cheng ; Massimo Petrarca ; Pavel Polynkin</i>	
<b>INCREASING THE NUMERICAL APERTURE OF WAVEGUIDES IN GORILLA GLASS® FOR SMARTPHONE APPLICATIONS</b> .....	1055
<i>Jean-Sébastien Boisvert ; Raman Kashyap</i>	
<b>LASER MATERIAL PROCESSING LEAD TO NANOTOXICITY</b> .....	1056
<i>Canan Kursungöz ; Sadik Taskin Tas ; Baris Alten ; Metin Yesiltepe ; M. Yildirim Sara ; Mustafa F. Sargon ; Bülelnd Ortaç</i>	

<b>HIGH-BIREFRINGENCE DIRECT-UV-WRITTEN SILICA WAVEGUIDES FOR HERALDED SINGLE-PHOTON SOURCES AT TELECOM WAVELENGTHS</b> .....	1057
<i>M. T. Posner ; R. H. S. Bannerman ; D. H. Smith ; P. L. Mennea ; J. C. Gates ; P. G. R. Smith</i>	
<b>LASER MACHINING OF YSZ CERAMICS FOR SOLID OXIDE FUEL CELLS (SOFC)</b> .....	1058
<i>Ruth Lahoz ; José Antonio Cebollero ; Miguel Laguna-Bercero ; José Ignacio Peña ; Angel Larrea</i>	
<b>“OPTICAL KNIVES” DESIGN BASED ON VECTOR MATHIEU BEAMS</b> .....	1059
<i>Sergej Orlov ; Vitalis Vosylius</i>	
<b>INFLUENCE OF WATER ENVIRONMENT ON NANOSECOND LASER-INDUCED DAMAGE THRESHOLDS OF NOBLE METALS AND ALLOYS</b> .....	1060
<i>Sergey V. Starinskiy ; Yuri G. Shukhov ; Alexander V. Bulgakov</i>	
<b>ONE QUANTUM SHUTTER CAN CLOSE TWO SLITS SIMULTANEOUSLY</b> .....	1061
<i>Ryo Okamoto ; Shigeki Takeuchi</i>	
<b>OPTICAL HARMONIC GENERATION FROM BRIGHT SQUEEZED VACUUM</b> .....	1062
<i>Kirill Yu. Spasibko ; Denis A. Kopylov ; Victor L. Krutyanskiy ; Tatiana V. Murzina ; Gerd Leuchs ; Maria V. Chekhova</i>	
<b>MODAL ANALYSIS OF PHOTON-NUMBER STATICS IN A SUPERCONTINUUM LASER PULSE</b> .....	1063
<i>Aruto Hosaka ; Masaya Tomita ; Tsubasa Otsuka ; Fumihiko Kannari</i>	
<b>HOLOGRAPHIC MEASUREMENT OF SINGLE PHOTON SPATIAL WAVEFUNCTION</b> .....	1064
<i>Michal Jachura ; Radoslaw Chrapkiewicz ; Konrad Banaszek ; Wojciech Wasilewski</i>	
<b>CORRELATION PLENOPTIC IMAGING</b> .....	1065
<i>F. V. Pepe ; F. Di Lena ; A. Mazzilli ; A. Garuccio ; G. Scarcelli ; M. D'Angelo</i>	
<b>QUANTUM DOTS INTERFACED WITH ALKALI ATOMS: FILTERING, DELAYING AND QUANTUM INTERFERING SINGLE PHOTONS</b> .....	1066
<i>H. Vural ; S. L. Portalupi ; M. Müller ; J. Weber ; J. Maisch ; S. Kern ; M. Widmann ; R. Löw ; J. Wrachtrup ; M. Jetter ; I. Gerhardt ; P. Michler</i>	
<b>STRONG DELAY OF QUANTUM DOT SINGLE PHOTONS IN CESIUM VAPOR</b> .....	1067
<i>Tim Kroh ; Janik Wolters ; Alexander Thoma ; Stephan Reitzenstein ; Johannes S. Wildmann ; Rinaldo Trotta ; Eugenio Zallo ; Armando Rastelli ; Oliver G. Schmidt ; Oliver Benson</i>	
<b>WIDEFIELD MICROWAVE IMAGING USING NV CENTRES</b> .....	1068
<i>Andrew Horsley ; Janik Wolters ; Patrick Appel ; James Wood ; Jocelyn Achard ; Alexandre Tallaire ; Patrick Maletinsky ; Philipp Treutlein</i>	
<b>FOUR-WAVE MIXING AND VACUUM SQUEEZING IN POLARITON MICROCAVITIES</b> .....	1069
<i>Rafael Garcés ; Germán J. De Valcárcel</i>	
<b>PHOTON CONDENSATES IN MICROSTRUCTURED TRAPPING POTENTIALS</b> .....	1070
<i>C. Kurtscheid ; D. Dung ; E. Busley ; J. Schmitt ; T. Damm ; F. Vewinger ; J. Klärs ; M. Weitz</i>	
<b>SEMICONDUCTOR-SUPERCONDUCTOR OPTOELECTRONIC DEVICES</b> .....	1071
<i>D. Panja ; S. Bouscher ; S. Cohen ; L. Rybak ; D. Ritter ; A. Hayat</i>	
<b>REALIZATION OF MULTIDIMENSIONAL EINSTEIN-PODOLSKY-ROSEN PARADOX BETWEEN SINGLE PHOTON AND ATOMIC SPIN-WAVE EXCITATION</b> .....	1072
<i>Michal Dabrowski ; Michal Parniak ; Wojciech Wasilewski</i>	
<b>NONLOCAL CORRELATIONS IN FREQUENCY ENTANGLED TWO-QUDIT SYSTEMS</b> .....	1073
<i>Sacha Schwarz ; Bänz Bessire ; Alberto Montana ; Stefan Wolf ; Yeong-Cherng Liang ; André Stefanov</i>	
<b>EXPERIMENTAL TESTS OF INDEFINITE CAUSAL ORDERS</b> .....	1074
<i>Lee A. Rozema ; Giulia Rubino ; Adrien Feix ; Mateus Araújo ; Caslav Brukner ; Philip Walther</i>	
<b>EXPERIMENTAL TEST OF NONLOCAL CAUSALITY</b> .....	1075
<i>M. Ringbauer ; C. Giarmatzi ; R. Chaves ; F. Costa ; A. G. White ; A. Fedrizzi</i>	
<b>FROM LOOPHOLE-FREE VIOLATION OF BELL'S INEQUALITY TOWARD DEVICE-INDEPENDENT QUANTUM COMMUNICATION PROTOCOLS</b> .....	1076
<i>K. Redeker ; D. Burchardt ; R. Garthoff ; W. Rosenfeld ; H. Weinfurter</i>	
<b>OPTOMECHANICS AT THE PHOTON RECOIL LIMIT WITH LEVITATED NANOPARTICLES</b> .....	1077
<i>Martin Frimmer ; Vijay Jain ; Jan Gieseler ; Lukas Novotny</i>	
<b>FORCE METROLOGY USING QUANTUM CORRELATIONS OF LIGHT DUE TO A ROOM-TEMPERATURE MECHANICAL OSCILLATOR</b> .....	1078
<i>V. Sudhir ; R. Schilling ; S. Fedorov ; H. Schuetz ; D. J. Wilson ; T. J. Kippenberg</i>	
<b>COOLING A MACROSCOPIC MECHANICAL OSCILLATOR CLOSE TO ITS QUANTUM GROUND STATE</b> .....	1079
<i>Rémi Metzдорff ; Leonhard Neuhaus ; Salim Zerkani ; Sheon Chua ; Thibaut Jacqmin ; Samuel Deléglise ; Tristan Briant ; Pierre-François Cohadon ; Antoine Heidmann</i>	
<b>QUANTUM NONDEMOLITION MEASUREMENT OF LIGHT INTENSITY FLUCTUATIONS IN AN OPTOMECHANICAL EXPERIMENT</b> .....	1080
<i>Antonio Pontin ; Michele Bonaldi ; Antonio Borrielli ; Lorenzo Marconi ; Francesco Marino ; Gregory Pandraud ; Giovanni A. Prodi ; Pasqualina M. Sarro ; Enrico Serra ; Francesco Marin</i>	
<b>NONLINEAR CAVITY OPTOMECHANICS WITH NANOMECHANICAL THERMAL FLUCTUATIONS</b> .....	1081
<i>Giada R. La Gala ; Rick Leijssen ; Lars Freisem ; Juha T. Muhkanen ; Ewold Verhagen</i>	
<b>QUANTUM OPTICAL CIRCULATOR CONTROLLED BY A SINGLE CHIRALLY COUPLED ATOM</b> .....	1082
<i>Jürgen Volz ; Michael Scheucher ; Adèle Hilico ; Elisa Will ; Arno Rauschenbeutel</i>	
<b>TWO-PHOTON BLOCKADE IN QUANTUM ELECTRODYNAMICS</b> .....	1083
<i>Karl Nicolas Tolazzi ; Christoph Hamsen ; Tatjana Wilk ; Gerhard Rempe</i>	
<b>TIME-RESOLVED SCATTERING OF A SINGLE PHOTON BY A SINGLE ATOM</b> .....	1084
<i>Mathias Steiner ; Victor Leong ; Mathias Alexander Seidler ; Alessandro Cerè ; Christian Kurtsiefer</i>	
<b>COHERENT COUPLING OF A SINGLE MOLECULE TO A SCANNING FABRY-PÉROT MICROCAVITY</b> .....	1085
<i>Daqing Wang ; Hrishikesh Kelkar ; Diego Martin-Cano ; Tobias Utikal ; Stephan Götzinger ; Vahid Sandoghdar</i>	

<b>DETERMINISTIC GIANT PHOTON PHASE SHIFT FROM A SINGLE CHARGED QUANTUM DOT .....</b>	<b>1086</b>
<i>P. Androvitsaneas ; A. B. Young ; J. M. Lennon ; C. Schneider ; S. Maier ; J. J. Hinchliff ; G. S. Atkinson ; E. Harbord ; M. Kamp ; S. Höfling ; J. G. Rarity ; R. Oulton</i>	
<b>PHONON LIMIT TO SIMULTANEOUS NEAR-UNITY EFFICIENCY AND INDISTINGUISHABILITY IN SEMICONDUCTOR SINGLE PHOTON SOURCES.....</b>	<b>1087</b>
<i>Dara P. S. McCutcheon ; Jake Iles-Smith ; Ahsan Nazir ; Jesper Mork</i>	
<b>LARGE BRAGG REFLECTION FROM 1D CHAINS OF TRAPPED ATOMS NEAR AN OPTICAL NANOFIBER .....</b>	<b>1088</b>
<i>Neil Corzo ; Baptiste Gouraud ; Aavek Chandra ; Akihisa Goban ; Jeremy Raskop ; Alexandra Sheremet ; Dmitriy Kupriyanov ; Julien Laurat</i>	
<b>EFFICIENT ON-CHIP INTERFACE FOR MANY-BODY QUANTUM OPTICS WITH SINGLE MOLECULES .....</b>	<b>1089</b>
<i>Pierre Türschmann ; Nir Rotenberg ; Jan Renger ; Tobias Utikal ; Stephan Götzinger ; Vahid Sandoghdar</i>	
<b>CHIRAL QUANTUM OPTICS.....</b>	<b>1090</b>
<i>Arno Rauschenbeutel</i>	
<b>TWO-DIMENSIONAL ARRAYS OF INDIVIDUAL RYDBERG ATOMS FOR QUANTUM SIMULATION OF SPIN HAMILTONIANS.....</b>	<b>1091</b>
<i>Thierry Lahaye ; Sylvain De Léséleuc ; Daniel Barreda ; Vincent Lienhard ; Antoine Browaeys</i>	
<b>COHERENT RYDBERG EXCITATION OF A SINGLE TRAPPED ION .....</b>	<b>1092</b>
<i>Gerard Higgins ; Fabian Pokorny ; Chi Zhang ; Quentin Bodart ; Florian Kress ; Christine Maier ; Johannes Haag ; Weibin Li ; Igor Lesanovsky ; Markus Hennrich</i>	
<b>STORAGE AND RETRIEVAL OF A SINGLE PHOTON EMITTED BY A QUANTUM MEMORY ON A HIGHLY EXCITED RYDBERG STATE .....</b>	<b>1093</b>
<i>Emanuele Distante ; Pau Farrera ; Auxiliadora Padrón-Brito ; David Paredes-Barato ; Georg Heinze ; Hugues De Riedmatten</i>	
<b>QUANTUM ABSORPTION REFRIGERATOR WITH TRAPPED IONS .....</b>	<b>1094</b>
<i>Gleb Maslennikov ; Shiqian Ding ; Jaren Gan ; Roland Hablutzel ; Alexandre Roulet ; Stefan Nimmrichter ; Jibo Dai ; Valerio Scarani ; Dzmityr Matuskevich</i>	
<b>MICROWAVE SIDEBAND COOLING OF NANOFIBER-TRAPPED ATOMS .....</b>	<b>1095</b>
<i>B. Albrecht ; Y. Meng ; C. Clausen ; A. Dareau ; P. Schneeweiss ; A. Rauschenbeutel</i>	
<b>A SOLID-STATE SOURCE FOR NON-CLASSICAL PHOTON PAIRS WITH CONTROLLABLE DELAY .....</b>	<b>1096</b>
<i>Kutlu Kutluer ; Margherita Mazzera ; Hugues De Riedmatten</i>	
<b>A BRIGHT TRIGGERED TWIN-PHOTON SOURCE IN THE SOLID STATE.....</b>	<b>1097</b>
<i>Tobias Heindel ; Alexander Thoma ; Martin Von Helversen ; Marco Schmidt ; Alexander Schlehahn ; Manuel Gschrey ; Peter Schnauber ; Jan-Hindrik Schulze ; André Strittmatter ; Jörn Beyer ; Sven Rodt ; Alexander Carmele ; Andreas Knorr ; Stephan Reitzenstein</i>	
<b>TWO-PHOTON INTERFERENCE FROM REMOTE DETERMINISTIC QUANTUM DOT MICROLENSSES .....</b>	<b>1098</b>
<i>Peter Schnauber ; Alexander Thoma ; Jonas Böhm ; Manuel Gschrey ; Jan-Hindrik Schulze ; André Strittmatter ; Sven Rodt ; Tobias Heindel ; Stephan Reitzenstein</i>	
<b>HYPERENTANGLEMENT OF PHOTONS EMITTED BY A QUANTUM DOT .....</b>	<b>1099</b>
<i>Maximilian Prilmüller ; Tobias Huber ; Markus Müller ; Peter Michler ; Gregor Weihs ; Ana Predojevic</i>	
<b>TUNEABLE QUANTUM LIGHT FROM A PHOTONIC CRYSTAL LED.....</b>	<b>1100</b>
<i>Maurangelo Petruzzella ; Francesco Pagliano ; Žarko Zobenica ; Simone Birindelli ; Michele Cotrufo ; Frank W. M. Van Otten ; Rob W. Van Der Heijden ; Andrea Fiore</i>	
<b>HIGH-PURITY SINGLE PHOTON EMITTER IN ALUMINUM NITRIDE PHOTONIC INTEGRATED CIRCUIT .....</b>	<b>1101</b>
<i>Benjamin Lienhard ; Tsung-Ju Lu ; Kwang-Yong Jeong ; Hyowon Moon ; Ava Iranmanesh ; Gabriele Grosso ; Dirk Englund</i>	
<b>SUB-MEGAHERTZ LINEWIDTH SINGLE PHOTON SOURCE SUITABLE FOR QUANTUM MEMORIES .....</b>	<b>1102</b>
<i>Markus Rambach ; Wing Yung Sarah Lau ; Aleksandrina Nikolova ; Till Weinhold ; Andrew White</i>	
<b>CORRELATION ENGINEERING FOR A FLEXIBLE RAMAN FREE FIBERED PHOTON SOURCE .....</b>	<b>1103</b>
<i>M. Cordier ; A. Orioux ; R. Gabet ; T. Harle ; N. Dubreuil ; E. Diamanti ; P. Delaye ; I. Zaquine</i>	
<b>A NOVEL COMPACT AND EFFICIENT SOURCE OF PHOTONIC ENTANGLEMENT .....</b>	<b>1104</b>
<i>Fabian Laudenbach ; Sebastian Kalista ; Michael Hentschel ; Philip Walther ; Hannes Hübel</i>	
<b>ULTRABRIGHT ELECTRICALLY DRIVEN SINGLE-PHOTON SOURCE ON DIAMOND OPERATING ABOVE ROOM TEMPERATURE.....</b>	<b>1105</b>
<i>Dmitry Yu. Fedyanin ; Mario Agio</i>	
<b>EXPERIMENTAL CHARACTERISATION OF A BROADBAND MULTIMODE SQUEEZED LIGHT SOURCE IN THE HIGH GAIN REGIME .....</b>	<b>1106</b>
<i>G. Triginer ; M. D. Vidrighin ; A. Eckstein ; M. Moore ; W. S. Kolthammer ; I. A. Walmsley</i>	
<b>ENGINEERING OF SPECTRAL AND SPATIAL PROPERTIES OF BRIGHT SQUEEZED-VACUUM STATES OF LIGHT.....</b>	<b>1107</b>
<i>Olga V. Tikhonova ; Polina R. Sharapova ; Maria V. Chekhova ; Angela M. Perez ; Gerd Leuchs</i>	
<b>QUANTUM SIMULATION OF SPIN CHAIN DYNAMICS VIA INTEGRATED PHOTONICS .....</b>	<b>1108</b>
<i>Ioannis Pitsios ; Leonardo Banchi ; Adil S. Rab ; Marco Bentivegna ; Debora Caprara ; Andrea Crespi ; Nicolò Spagnolo ; Sougato Bose ; Paolo Mataloni ; Roberto Osellame ; Fabio Sciarrino</i>	
<b>CONTROLLING QUANTUM CORRELATIONS IN MASSIVELY MULTICHANNEL OPTICAL NETWORKS.....</b>	<b>1109</b>
<i>Ravitej Uppu ; Tom A. W. Wolterink ; Willem L. Vos ; Klaus-J. Boller ; Pepijn W. H. Pinkse</i>	
<b>EXPERIMENTAL DEMONSTRATION OF RELATIVE TEMPORAL MULTIPLEXING.....</b>	<b>1110</b>
<i>X. Zhang ; Y. H. Lee ; B. A. Bell ; P. H. Leong ; T. Rudolph ; C. Xiong ; B. J. Eggleton</i>	
<b>INTEGRATED QUANTUM OPTICS.....</b>	<b>1111</b>
<i>I. A. Walmsley</i>	
<b>SUB-SHOT NOISE MEASUREMENT STRATEGIES FOR PRECISION ATOMIC SENSORS.....</b>	<b>1112</b>
<i>Mark Kasevich</i>	

<b>TRACKING THE EVOLUTION OF A QUANTUM STATE BEYOND CLASSICAL LIMITS</b> .....	1113
<i>G. Colangelo ; F. Martin Ciurana ; R. J. Sewell ; M. W. Mitchell</i>	
<b>ULTRA-BROADBAND HOMODYNE-DETECTION FOR PARALLEL PROCESSING OF QUANTUM- INFORMATION</b> .....	1114
<i>Yaakov Shaked ; Rafi Vered ; Yoad Michael ; Leon Bello ; Michael Rosenbluh ; Avi Pe'Er</i>	
<b>NOISE-POWERED ENTANGLEMENT DETECTION</b> .....	1115
<i>Jasmin D. A. Meinecke ; Pete Shadbolt ; Lukas Knips ; Jan Dziejwior ; Nicolas Brunner ; Joseph Bowles ; Flavien Hirsch ; Jeremy L. O'Brien ; Harald Weinfurter</i>	
<b>QUANTUM ENHANCED WIDE FIELD MICROSCOPY AND GHOST MICROSCOPY</b> .....	1116
<i>Ivano Ruo-Berchera ; Nigam Samantaray ; Alice Meda ; Alessio Avella ; Elena Losero ; Fabio Scafirimuto ; Marco Genovese</i>	
<b>COHERENT CONVERSION OF SUB-GHZ OPTICAL PULSE BANDWIDTHS FOR HYBRID QUANTUM NETWORKS</b> .....	1117
<i>Filip Sosnicki ; Michal Karpinski</i>	
<b>SIMULATION MODEL OF ACCUMULATED PROGRAMMING IN AN OPTICALLY THICK SPECTRAL HOLE BURNING MATERIAL</b> .....	1118
<i>Y. Attal ; P. Berger ; T. Chanelière ; A. Louchet-Chauvet</i>	
<b>FOUR-WAVE MIXING PHOTON PAIR GENERATION STATISTICS FOR A NONLINEAR MICROCAVITY WITH CHAOTIC AND PULSED EXCITATION</b> .....	1119
<i>Piotr Roztocki ; Michael Kues ; Christian Reimer ; Brent E. Little ; Sai T. Chu ; David J. Moss ; Roberto Morandotti</i>	
<b>SINGLE PHOTONS FROM WEAKLY NONLINEAR PHOTONIC STRUCTURES</b> .....	1120
<i>Vincenzo Savona ; Hugo Flayac</i>	
<b>HIGH PRECISION METROLOGY FROM THE FISHER INFORMATION OF A HONG-OU-MANDEL INTERFEROMETER</b> .....	1121
<i>Ashley Lyons ; George Knee ; Eliot Bolduc ; Thomas Roger ; Jonathan Leach ; Erik Ganger ; Daniele Faccio</i>	
<b>HOW FILTERING AFFECTS PHOTON-PAIRS PRODUCED BY PARAMETRIC PROCESSES</b> .....	1122
<i>Daniel R. Blay ; Michael J. Steel ; Lukas G. Helt</i>	
<b>SLOW LIGHT IN FLIGHT IMAGING</b> .....	1123
<i>Kali Wilson ; Bethany Little ; Genevieve Gariepy ; Robert Henderson ; John Howell ; Daniele Faccio</i>	
<b>STROBOSCOPIE EVOLUTIONS OF QUANTUM STATES AND QUANTUM WALKS IN A DOUBLE- SAGNAC INTERFEROMETRIC CONFIGURATION</b> .....	1124
<i>Álvaro Cuevas ; Carlo Liorni ; Fabio Sciarrino ; Paolo Mataloni</i>	
<b>TRANSFER OF CLASSICAL NON-SEPARABLE STATE TO HYBRID ENTANGLED TWO PHOTON STATE IN PARAMETRIC DOWN CONVERSION PROCESS</b> .....	1125
<i>M. V. Jabir ; N. Apurv Chaitanya ; G. K. Samanta</i>	
<b>NARROW LINEWIDTH PHOTON PAIR GENERATION FROM POLARIZED WARM ATOMIC GAS USING HOLLOW OPTICAL PUMPING</b> .....	1126
<i>Taek Jeong ; Han Seb Moon</i>	
<b>ULTRAFAST QUANTUM TIME-RESOLVED SPECTROSCOPY</b> .....	1127
<i>Dmitry A. Kalashnikov ; Elizaveta V. Melik-Gaykazyan ; Alexey A. Kalachev ; Ye Feng Yu ; Arseniy I. Kuznetsov ; Leonid A. Krivitsky</i>	
<b>CAVITY ENHANCED SEMICONDUCTOR PHOTON PAIR SOURCE</b> .....	1128
<i>Konstantin Fehler ; Fabian Göster ; Ana Predojevic</i>	
<b>SPLIT-STEP SCHEME FOR PHOTON-PAIR GENERATION THROUGH SPONTANEOUS FOUR-WAVE MIXING</b> .....	1129
<i>Jacob G. Koefoed ; Jesper B. Christensen ; Karsten Rottwitt</i>	
<b>RE-EXCITATION AS A SOURCE OF ERROR IN SINGLE-PHOTON SOURCES BASED ON QUANTUM TWO-LEVEL SYSTEMS</b> .....	1130
<i>Kevin A. Fischer ; Kai Müller ; Konstantinos G. Lagoudakis ; Jelena Vuckovic</i>	
<b>INDIVIDUALLY SHUTTERED WAVEGUIDE MULTI-PATH INTERFEROMETER</b> .....	1131
<i>S. Gstyr ; R. Keil ; T. Kauten ; T. Eichelkraut ; A. Szameit ; G. Weihs</i>	
<b>BERRY'S PHASE AND ORBITAL ANGULAR MOMENTUM</b> .....	1132
<i>Paolo Martelli ; Annalaura Fasiello ; Mario Martinelli</i>	
<b>GENERATION OF FEW-CYCLE SQUEEZED LIGHT</b> .....	1133
<i>S. A. Germanskiy ; C. R. Phillips ; D. B. Horoshko ; M. I. Kolobov ; G. Kh. Kitaeva ; G. Leuchs ; M. V. Chekhova</i>	
<b>HYBRID COHERENT LIGHT: MODELING BROADBAND QUANTUM DOT SUPERLUMINESCENT DIODES</b> .....	1134
<i>Franziska Friedrich ; Reinhold Walsler</i>	
<b>QUANTUM STATE PREPARATION USING CAVITIES AND QUANTUM MEMORIES</b> .....	1135
<i>Martin Bouillard ; Guillaume Boucher ; Bhaskar Kanseri ; Rosa Tualle-Brouri</i>	
<b>FREQUENCY-BIN ENTANGLEMENT OF NARROWBAND PHOTON PAIRS</b> .....	1136
<i>Daniel Rieländer ; Andreas Lenhard ; Osvaldo Jimenez ; Alejandro Máttar ; Alessandro Seri ; Daniel Cavalcanti ; Margherita Mazzer ; Antonio Acín ; Hugues De Riedmatten</i>	
<b>A PROPOSAL OF MULTISTAGE QUANTUM PULSE GATE FOR A WAVELENGTH-DIVISION- MULTIPLEXED QUANTUM SIMULATOR</b> .....	1137
<i>Aruto Hosaka ; Tsubasa Otsuka ; Masaya Tomita ; Fumihiko Kannari</i>	
<b>WEAK MEASUREMENTS: FROM MEASURING INCOMPATIBLE OBSERVABLES AND TESTING QUANTUM CONTEXTUALITY TO PROTECTIVE MEASUREMENTS</b> .....	1138
<i>Fabrizio Piacentini ; Alessio Avella ; Rudi Lussana ; Federica Villa ; Alberto Tosi ; F. Zappa ; Marco Gramegna ; Giorgio Brida ; Eliahu Cohen ; Lev Vaidman ; Ivo Pietro Degiovanni ; Marco Genovese</i>	

<b>PYRPL (PYTHON RED PITAYA LOCKBOX) — AN OPEN-SOURCE SOFTWARE PACKAGE FOR FPGA-CONTROLLED QUANTUM OPTICS EXPERIMENTS</b> .....	1139
<i>L. Neuhaus ; R. Metzdröff ; S. Chua ; T. Jacqmin ; T. Briant ; A. Heidmann ; P. -F. Cohadon ; S. Deléglise</i>	
<b>THE DAWN OF QUANTUM NETWORKS</b> .....	1140
<i>Ronald Hanson</i>	
<b>ALL-OPTICAL SYNCHRONIZATION FOR QUANTUM COMMUNICATION NETWORKS</b> .....	1141
<i>B. Fedrici ; L. A. Ngah ; O. Alibart ; F. Kaiser ; L. Labonté ; V. D'Auria ; S. Tanzilli</i>	
<b>PHASE-TUNED ENTANGLED STATE GENERATION BETWEEN DISTANT SPIN QUBITS</b> .....	1142
<i>Robert Stockill ; Megan Stanley ; Lukas Huthmacher ; Claire Le Gall ; Aaron Miller ; Edmund Clarke ; Maxime Hugues ; Clemens Matthiesen ; Mete Atatüre</i>	
<b>BENCHMARKING PHOTON-PHOTON INTERACTION NODES FOR QUANTUM COMMUNICATION</b> .....	1143
<i>Bertus Jordaán ; Mehdi Namazi ; Steven Sagona-Stophel ; Chris Ianzano ; Reihaneh Shahrokshahi ; Eden Figueroa</i>	
<b>GENERATION OF MECHANICAL INTERFERENCE FRINGES BY MULTI-PHOTON QUANTUM MEASUREMENT</b> .....	1144
<i>M. Ringbauer ; T. J. Weinhold ; A. G. White ; M. R. Vanner</i>	
<b>HYBRID OPTOMECHANICAL SYSTEMS AS TRANSDUCERS FOR QUANTUM INFORMATION</b> .....	1145
<i>Samuel Deléglise ; Thibault Capelle ; Thibaut Jacqmin ; Rémi Braive ; Isabelle Robert-Philipp ; Tristan Briant ; Pierre-François Cohadon ; Antoine Heidmann</i>	
<b>MULTIMODE QUANTUM OPTOMECHANICS WITH ULTRA-COHERENT NANOMECHANICAL RESONATORS</b> .....	1146
<i>Yeghishe Tsururyan ; William H. P. Nielsen ; Christoffer B. Moller ; Andreas Barg ; Junxin Chen ; Yannick Seis ; Eugene S. Polzik ; Albert Schliesser</i>	
<b>COLD-ATOM INERTIAL SENSOR WITHOUT DEADTIME</b> .....	1147
<i>B. Fang ; D. Savoie ; N. Miélec ; I. Dutta ; B. Venon ; C. L. Garrido Alzar ; R. Geiger ; A. Landragin</i>	
<b>A COHERENT ELECTRON SPIN CLUSTER IN DIAMOND FOR ENVIRONMENT-ASSISTED MAGNETOMETRY</b> .....	1148
<i>Dhiren M. Kara ; Helena S. Knowles ; Mete Atatüre</i>	
<b>ENTANGLEMENT-ENHANCED COHERENT DETECTION OF RADIO-FREQUENCY WAVEFORMS</b> .....	1149
<i>F. Martin Ciarana ; G. Colangelo ; Lukáš Slodicka ; Robert J. Sewell ; Morgan W. Mitchell</i>	
<b>COMPARING THE ARCHITECTURES OF THE FIRST PROGRAMMABLE QUANTUM COMPUTERS</b> .....	1150
<i>Norbert M. Linke ; Dmitri Maslov ; Martin Roetteler ; Shantanu Debnath ; Caroline Figgatt ; Kevin A. Landsman ; Kenneth Wright ; Christopher Monroe</i>	
<b>EXPERIMENTAL QUANTUM HAMILTONIAN LEARNING USING A SILICON PHOTONIC CHIP AND A NITROGEN-VACANCY ELECTRON SPIN IN DIAMOND</b> .....	1151
<i>Stefano Paesani ; Jianwei Wang ; Raffaele Santagati ; Sebastian Knauer ; Andreas A Gentile ; Nathan Wiebe ; Maurangelo Petruzzella ; Anthony Laing ; John G. Rarity ; Jeremy L. O'Brien ; Mark G. Thompson</i>	
<b>HYBRID QUANTUM INFORMATION PROCESSING; A WAY FOR LARGE-SCALE OPTICAL QUANTUM INFORMATION PROCESSING</b> .....	1152
<i>Akira Furusawa</i>	
<b>EXPERIMENTAL CHARACTERIZATION OF THE PHOTONIC QUANTUM FREDKIN GATE</b> .....	1153
<i>R. Stárek ; M. Micuda ; M. Miková ; I. Straka ; M. Dušek ; P. Marek ; M. Ježek ; J. Fiurášek</i>	
<b>ULTRAFAST ALL-OPTICAL COHERENT CONTROL OF SILICON VACANCY COLOUR CENTRES IN DIAMOND</b> .....	1154
<i>Jonas N. Becker ; Johannes Görlitz ; Carsten Arend ; Christian Weinzettl ; Eilon Poem ; Joshua Nunn ; Ian A. Walmsley ; Christoph Becher</i>	
<b>AIRBORNE DEMONSTRATION OF A QUANTUM KEY DISTRIBUTION RECEIVER PAYLOAD</b> .....	1155
<i>Christopher J. Pugh ; Sarah Kaiser ; Jean-Philippe Bourgoin ; Jeongwan Jin ; Nigar Sultana ; Sascha Agne ; Elena Anisimova ; Vadim Makarov ; Eric Choi ; Brendon L. Higgins ; Thomas Jennewein</i>	
<b>QUANTUM-LIMITED MEASUREMENTS OF OPTICAL SIGNALS FROM A SATELLITE IN GEOSTATIONARY EARTH ORBIT</b> .....	1156
<i>Kevin Günthner ; Inran Khan ; Dominique Elser ; Birgit Stiller ; Ömer Bayraktar ; Christian R. Müller ; Karen Saucke ; Daniel Tröndle ; Frank Heine ; Stefan Seel ; Peter Greulich ; Herwig Zech ; Björn Güttlich ; Sabine Philipp-May ; Christoph Marquardt ; Gerd Leuchs</i>	
<b>QUANTUM TELEPORTATION OF AN OPTICAL QUTRIT</b> .....	1157
<i>Masanori Okada ; Kan Takase ; Maria Fujiwara ; Shuntaro Takeda ; Jun-Ichi Yoshikawa ; Peter Van Loock ; Akira Furusawa</i>	
<b>REMOTE STATE PREPARATION AND EINSTEIN-PODOLSKY-ROSEN STEERING FOR OPTICAL HYBRID QUANTUM INFORMATION PROCESSING</b> .....	1158
<i>Adrien Cavaillès ; Hanna Le Jeannic ; Jérémy Raskop ; Kun Huang ; Julien Laurat</i>	
<b>SUPERADDITIVITY OF TWO QUANTUM INFORMATION RESOURCES</b> .....	1159
<i>M. Nawareg ; S. Muhammed ; P. Horodecki ; M. Bourennane</i>	
<b>QUANTUM FINGERPRINTING WITHOUT A SHARED PHASE REFERENCE</b> .....	1160
<i>Michal Lipka ; Marcin Jarzyna ; Michal Jachura ; Konrad Banaszek</i>	
<b>LONG-COHERENCE-TIME QUBIT MEMORY: COMBINING AN EFFICIENT LIGHT-ATOM INTERFACE AND LOW-DECOHERENCE ATOMIC STATES</b> .....	1161
<i>O. Morin ; M. Körber ; S. Langenfeld ; A. Neuzner ; S. Ritter ; G. Rempe</i>	
<b>HIGH-EFFICIENCY QUANTUM MEMORY FOR PHOTONIC POLARIZATION QUBITS IN A SPATIALLY-MULTIPLICED DENSE COLD ATOMIC ENSEMBLE</b> .....	1162
<i>Kun Huang ; Pierre Vernaz-Gris ; Mingtao Cao ; Alexandra Sheremet ; Julien Laurat</i>	
<b>A NOISELESS QUANTUM OPTICAL MEMORY AT ROOM TEMPERATURE</b> .....	1163
<i>P. M. Ledingham ; K. T. Kaczmarek ; B. Brecht ; A. Feizpour ; G. S. Thekkadath ; S. E. Thomas ; J. H. D. Munns ; D. J. Saunders ; J. Nunn ; I. A. Walmsley</i>	



<b>QUANTUM CORRELATIONS BETWEEN SINGLE TELECOM PHOTONS AND A MULTIMODE ON-DEMAND SOLID-STATE QUANTUM MEMORY .....</b>	<b>1164</b>
<i>A. Seri ; A. Lenhard ; D. Rieländer ; M. Gündogan ; P. Ledingham ; M. Mazzera ; H. De Riedmatten</i>	
<b>ANGULARLY MULTIMODE HOLOGRAPHIC ATOMIC MEMORY AS A TIME-DELAYED SINGLE AND MULTIPLE PHOTONS GENERATOR .....</b>	<b>1165</b>
<i>Michał Dabrowski ; Radosław Chrapkiewicz ; Wojciech Wasilewski</i>	
<b>INTEGRATED-OPTICS CIRCUITS FOR VALIDATION OF NON-CLASSICALITY .....</b>	<b>1166</b>
<i>Andrea Crespi ; Marco Bentivegna ; Ioannis Pitsios ; Davide Rusca ; Davide Poderini ; Gonzalo Carvacho ; Vincenzo D'Ambrosio ; Adán Cabello ; Fabio Sciarrino ; Roberto Osellame</i>	
<b>NOISE RESILIENCE OF BAYESIAN QUANTUM PHASE ESTIMATION TESTED ON A SI QUANTUM PHOTONIC CHIP .....</b>	<b>1167</b>
<i>A. A. Gentile ; S. Paesani ; R. Santagati ; J. Wang ; N. Wiebe ; D. Tew ; J. L. O'Brien ; M. G. Thompson</i>	
<b>SCALABLE ON-CHIP QUANTUM STATE TOMOGRAPHY .....</b>	<b>1168</b>
<i>James Titchener ; Markus Gräfe ; René Heilmann ; Alexander S. Soltsev ; Alexander Szameit ; Andrey A. Sukhorukov</i>	
<b>TOMOGRAPHY OF MODE-TUNABLE COHERENT SINGLE-PHOTON SUBTRACTOR .....</b>	<b>1169</b>
<i>Young-Sik Ra ; Clément Jacquard ; Adrien Dufour ; Claude Fabre ; Nicolas Treps</i>	
<b>REALIZATION OF MULTIPLEXING OF HERALDED SINGLE PHOTON SOURCES USING CASCADED ON-OFF DETECTORS .....</b>	<b>1170</b>
<i>Takayuki Kiyohara ; Ryo Okamoto ; Shigeki Takeuchi</i>	
<b>PURE SINGLE PHOTON GENERATION FROM NONLINEAR PROCESSES .....</b>	<b>1171</b>
<i>Francesco Graffitti ; Dmytro Kundys ; Derryck T. Reid ; Agata Branczyk ; Alessandro Fedrizzi</i>	
<b>ALL-OPTICAL STORAGE OF A QUBIT ENCODED IN AN OSCILLATOR .....</b>	<b>1172</b>
<i>Yosuke Hashimoto ; Takeshi Toyama ; Jun-Ichi Yoshikawa ; Kenzo Makino ; Peter Van Loock ; Akira Furusawa</i>	
<b>FREQUENCY-MULTIPLEXED SINGLE-PHOTON SOURCES USING ELECTRO-OPTIC FREQUENCY TRANSLATION .....</b>	<b>1173</b>
<i>T. Hiemstra ; P. Humphreys ; J. Tiedau ; M. Beck ; T. Parker ; M. Karpinski ; B. J. Smith ; A. Eckstein ; W. S. Kolthammer ; I. A. Walmsley</i>	
<b>QUANTUM STATE CARVING OF TWO ATOMIC QUBITS IN AN OPTICAL CAVITY .....</b>	<b>1174</b>
<i>Stephan Welte ; Bastian Hacker ; Severin Daiss ; Lin Li ; Stephan Ritter ; Gerhard Rempe</i>	
<b>QUANTUM FREQUENCY DOWN-CONVERSION OF <sup>40</sup>CA<sup>+</sup>-RESONANT POLARIZATION-ENTANGLED PHOTONS TO THE TELECOM O-BAND .....</b>	<b>1175</b>
<i>Matthias Bock ; Stephan Kucera ; Jan Arenskotter ; Benjamin Kambs ; Sebastian Rühle ; Andreas Lenhard ; Jürgen Eschner ; Christoph Becher</i>	
<b>PHOTON-PHOTON TO ATOM-PHOTON ENTANGLEMENT TRANSFER .....</b>	<b>1176</b>
<i>Stephan Kucera ; Jan Arenskotter ; Pascal Eich ; Matthias Kreis ; Philipp Müller ; Jürgen Eschner</i>	
<b>QUANTUM SIMULATIONS WITH QUANTUM GASES .....</b>	<b>1177</b>
<i>Tilman Esslinger</i>	
<b>TRAPPED CIRCULAR RYDBERG ATOMS FOR QUANTUM SIMULATION .....</b>	<b>1178</b>
<i>Rodrigo Cortiñas ; Thanh Long Nguyen ; Tigrane Cantat-Moltrecht ; Clément Sayrin ; Serge Haroche ; Jean-Michel Raimond ; Michel Brune</i>	
<b>QUANTUM SIMULATIONS WITH COLD TRAPPED IONS .....</b>	<b>1179</b>
<i>Thomas Monz ; Rainer Blatt</i>	
<b>WITNESSING QUANTUM SQUEEZING WITH BINARY HOMODYNE DETECTION .....</b>	<b>1180</b>
<i>Christian R. Müller ; Kaushik P. Seshadreesan ; Christian Peuntinger ; Gerd Leuchs ; Christoph Marquardt</i>	
<b>SECURE COMMUNICATION WITH CODED WAVEFRONTS .....</b>	<b>1181</b>
<i>Ravitej Uppu ; Tom A. W. Wolterink ; Sebastianus A. Goorden ; Boris Škoric ; Allard P. Mosk ; Pepijn W. H. Pinkse</i>	
<b>DECOY-STATE BB84 PROTOCOL USING SPACE DIVISION MULTIPLEXING IN SILICON PHOTONICS .....</b>	<b>1182</b>
<i>Davide Bacco ; Yunhong Ding ; Kjeld Dalgaard ; Karsten Rottwitt ; Leif Katsuo Oxenlowe</i>	
<b>LOW COST, SHORT RANGE QUANTUM KEY DISTRIBUTION .....</b>	<b>1183</b>
<i>David Lowndes ; Stefan Frick ; Benjamin Harrington ; John Rarity</i>	
<b>PHOTOSTABLE MOLECULES ON CHIP: INTEGRATED SINGLE PHOTON SOURCES FOR QUANTUM TECHNOLOGIES .....</b>	<b>1184</b>
<i>P. Lombardi ; A. P. Ovyvan ; S. Pazzagli ; G. Mazzamuto ; G. Kewes ; O. Neitzke ; N. Gruhler ; O. Benson ; W. H. P. Pernice ; F. S. Cataliotti ; C. Toninelli</i>	
<b>PROSPECTS OF CV-QKD SYSTEMS LIMITED BY COMMERCIAL TELECOM EQUIPMENT .....</b>	<b>1185</b>
<i>A. Poppe ; F. Fung ; M. Peev ; D. Hillerkuss ; F. Karinou ; L. Comandar ; S. Mikroulis ; H. Brunner ; S. Bettelli ; M. Kuschnerov ; Q. Yi ; D. Wang ; B. Schrenk ; F. Laudenbach ; C. Pacher ; H. Hübel</i>	
<b>GROWTH SCHEME FOR QUANTUM DOTS WITH LOW FINE STRUCTURE SPLITTING AT TELECOM WAVELENGTHS .....</b>	<b>1186</b>
<i>Tina Müller ; Joanna Skiba-Szymanska ; R. Mark Stevenson ; Christiana Varnava ; Martin Felle ; Jan Huwer ; Anthony J. Bennett ; James P. Lee ; Ian Farrer ; Andrey Krysa ; Peter Spencer ; Lucy E. Goff ; David A. Ritchie ; Jon Heffernan ; Andrew J. Shields</i>	
<b>AN ON-CHIP HOMODYNE DETECTOR FOR GENERATING RANDOM NUMBERS .....</b>	<b>1187</b>
<i>Dylan H. Mahler ; Francesco Raffaelli ; Giacomo Ferranti ; Philip Sibson ; Jake E. Kennard ; Alberto Santamato ; Gary Sinclair ; Damien Bonneau ; Mark G. Thompson ; Jonathan C. F. Matthews</i>	
<b>POLARIZATION-ENTANGLED PHOTON PAIRS FROM A CAVITY-ENHANCED DOWN-CONVERSION SOURCE IN SAGNAC CONFIGURATION .....</b>	<b>1188</b>
<i>Jan Arenskotter ; Stephan Kucera ; Jürgen Eschner</i>	
<b>A RECONFIGURABLE MODULAR SYSTEM FOR ON-CHIP QUANTUM OPTICS .....</b>	<b>1189</b>
<i>P. L. Mennea ; W. Clements ; M. T. Posner ; R. H. S. Bannerman ; D. H. Smith ; J. Renema ; J. C. Gates ; W. S. Kolthammer ; I. A. Walmsley ; P. G. R. Smith</i>	

<b>GENERALIZED SUPPRESSION LAW FOR VALIDATION OF BOSON SAMPLING</b> .....	1190
<i>Niko Viggianiello ; Fulvio Flamini ; Marco Bentivegna ; Nicolò Spagnolo ; Andrea Crespi ; Daniel J. Brod ; Ernesto F. Galvão ; Luca Innocenti ; Roberto Osellame ; Fabio Sciarrino</i>	
<b>PHOTON FREQUENCY CONVERTOR FOR QUANTUM NETWORKS</b> .....	1191
<i>Victor Krutyanskiy ; Martin Meraner ; Josef Schupp ; Vojtech Krčmářsky ; Helene Hainzer ; Ben Lanyon</i>	
<b>QUANTUM AND CLASSICAL TEMPORAL GHOST IMAGING OF A NON-REPRODUCIBLE SIGNAL</b> .....	1192
<i>Fabrice Devaux ; Séverine Denis ; Eric Lantz</i>	
<b>SEMICONDUCTOR-SUPERCONDUCTOR PHOTON BELL-STATE ANALYZER</b> .....	1193
<i>Eyyatar Sabag ; Shlomi Bouscher ; Raja Marjeh ; Alex Hayat</i>	
<b>QUANTUM SIMULATION OF DISCRETE HAMILTONIANS WITH DIRECTIONALLY UNBIASED LINEAR-OPTICAL MULTIPOINTS</b> .....	1194
<i>Alexander V. Sergienko ; David S. Simon ; Casey A. Fitzpatrick</i>	
<b>ADAPTIVE QUANTUM STATE ESTIMATION FOR DYNAMIC QUANTUM STATES</b> .....	1195
<i>Saki Nohara ; Ryo Okamoto ; Akio Fujiwara ; Shigeki Takeuchi</i>	
<b>MULTIQUBIT STATE TOMOGRAPHY FROM A PHYSICAL PERSPECTIVE</b> .....	1196
<i>Lukas Knips ; Christian Schwenmer ; Nico Klein ; Jonas Reuter ; Geza Tóth ; Harald Weinfurter</i>	
<b>PERIODIC SQUEEZING IN A POLARITON JOSEPHSON JUNCTION</b> .....	1197
<i>Albert F. Adiyatullin ; Mitchell D. Anderson ; Hugo Flayac ; Marcia T. Portella-Oberli ; Fauzja Jabeen ; Claudéric Ouellet-Plamondon ; Gregory C. Sallen ; Benoît Deveaud</i>	
<b>AN ATOMIC MEMORY SUITABLE FOR SEMICONDUCTOR QUANTUM DOT SINGLE PHOTONS</b> .....	1198
<i>Janik Wolters ; Gianni Buser ; Lucas Beguin ; Andrew Horsley ; Jan-Philipp Jahn ; Richard Warburton ; Philipp Treutlein</i>	
<b>QUANTUM-SCISSOR AMPLIFIED CONTINUOUS-VARIABLE QUANTUM KEY DISTRIBUTION</b> .....	1199
<i>Masoud Ghalati ; Rupesh Kumar ; Mohsen Razavi</i>	
<b>TOWARDS QUANTUM CONTROL OF NUCLEAR <sup>14</sup>N SPIN ENSEMBLE ASSOCIATED WITH NV ENSEMBLE IN DIAMOND FOR NUCLEAR ENHANCED SENSING APPLICATIONS</b> .....	1200
<i>Vadim V. Vorobyov ; Vladimir V. Soshenko ; Stepan Bolshedvorskii ; Andrey N. Smolyaninov ; Vadim N. Sorokin ; Alexey V. Akimov</i>	
<b>TOWARDS QUANTUM SIMULATIONS WITH CIRCULAR RYDBERG ATOMS</b> .....	1201
<i>Thanh Long Nguyen ; Tigrane Cantat-Moltrecht ; Rodrigo Cortiñas ; Clément Sayrin ; Serge Haroche ; Michel Brune ; Jean-Michel Raimond</i>	
<b>GENETIC ALGORITHMS TO LEARN AN UNKNOWN LINEAR TRANSFORMATION</b> .....	1202
<i>Nicolò Spagnolo ; Enrico Maiorino ; Chiara Vitelli ; Marco Bentivegna ; Andrea Crespi ; Roberta Ramponi ; Paolo Mataloni ; Roberto Osellame ; Fabio Sciarrino</i>	
<b>FORMATION OF MATTER-WAVE SOLITON TRAINS BY MODULATIONAL INSTABILITY</b> .....	1203
<i>Randall G. Hulet ; Jason H. V. Nguyen ; De Luo</i>	
<b>CRITICAL VELOCITY AND DISSIPATION OF AN ULTRACOLD BOSE-FERMI COUNTERFLOW</b> .....	1204
<i>Marion Delehaye ; Sébastien Laurent ; Igor Ferrier-Barbut ; Frédéric Chevy ; Christophe Salomon</i>	
<b>SYMMETRY BREAKING IN THE DISCRETE NONLINEAR SCHRÖDINGER EQUATION DUE TO LOCALISED BREATHERS</b> .....	1205
<i>Liviu F. Chirondojan ; Antonio Politi ; Gian-Luca Oppo</i>	
<b>REALIZATION OF STRONGLY INTERACTING FERMI GASES AND SPIN-ORBIT COUPLED SYSTEMS WITH AN OPTICAL CLOCK TRANSITION</b> .....	1206
<i>Giacomo Cappellini ; Lorenzo F. Livi ; Lorenzo Franchi ; Jacopo Catani ; Massimo Inguscio ; Leonardo Fallani</i>	
<b>EXPERIMENTAL SIGNATURES OF AN ABSORBING-STATE PHASE TRANSITION IN AN OPEN DRIVEN MANY-BODY QUANTUM SYSTEM</b> .....	1207
<i>Cristiano Simonelli ; Matteo Archimi ; Francesco Castellucci ; Ennio Arimondo ; Donatella Ciampini ; Ricardo Gutierrez ; Matteo Marcuzzi ; Igor Lesanovsky ; Oliver Morsch</i>	
<b>DIPOLAR QUANTUM MATTER NEAR ABSOLUTE ZERO TEMPERATURE</b> .....	1208
<i>Francesca Ferlaino</i>	
<b>DIPOLE AND QUADRUPOLE PATTERNS IN COLD ATOMS VIA LIGHT INDUCED INTERACTIONS</b> .....	1209
<i>I. Kresici ; G. Labeyrie ; G. -L. Oppo ; W. J. Firth ; G. R. M. Robb ; P. F. Griffin ; A. S. Arnold ; R. Kaiser ; T. Ackemann</i>	
<b>HIGH FIDELITY SOURCE OF SINGLE ATOMS IN THE QUANTUM GROUND STATE OF OPTICAL TWEEZERS</b> .....	1210
<i>Mikkel F. Andersen ; Pimonpan Sompet ; Eyal Schwartz ; Matthew D. J. Hunter</i>	
<b>CLEO®/EUROPE-EQEC 2017 ACTIVE CONTROL OF LASER WAVEFRONTS IN ATOM INTERFEROMETERS</b> .....	1211
<i>Azer Trimeche ; Mehdi Langlois ; Sébastien Merlet ; Franck Pereira Dos Santos</i>	
<b>SPIN RESPONSE AND METASTABILITY OF A STRONGLY REPULSIVE FERMI GAS OF ULTRACOLD ATOMS</b> .....	1212
<i>A. Amico ; F. Scazza ; G. Valtolina ; P. Tavares ; A. Burchianti ; C. Fort ; M. Inguscio ; M. Zaccanti ; G. Roati</i>	
<b>INVERSE PROBLEM FOR STATIONARY STATE OF A BOSE-EINSTEIN CONDENSATE</b> .....	1213
<i>Yu. V. Likhanova ; S. B. Medvedev ; M. P. Fedoruk ; P. L. Chapovsky</i>	
<b>A LARGE MODE OPTICAL RESONATOR FOR ENHANCED ATOM INTERFEROMETRY</b> .....	1214
<i>Nicolas Mielec ; Sapam Ranjita Chanu ; Isabelle Riou ; Benjamin Canuel ; David Holleville ; Bess Fang ; Arnaud Landragin ; Remi Geiger</i>	
<b>BLACKBODY-RADIATION MEDIATED QUANTUM STATE PREPARATION BY DISSOCIATION AND TWO-PHOTON ROTATIONAL SPECTROSCOPY SCHEME WITH COLD HD<sup>+</sup> IONS</b> .....	1215
<i>Florin Lucian Constantin</i>	
<b>THREE-DIMENSIONAL SIMULATION OF ATOMIC BRAGG BEAM SPLITTERS</b> .....	1216
<i>Antje Neumann ; Reinhold Walsler</i>	

<b>LAUNCHING THE ERA OF GRAVITATIONAL-WAVE ASTROPHYSICS</b> .....	1217
<i>Nergis Mavalvala</i>	
<b>ULTRASTABLE LASERS BASED ON LOW THERMAL NOISE OPTICAL RESONATORS</b> .....	1218
<i>Thomas Legero ; Dan Matei ; Robin Weyrich ; Sebastian Häfner ; Christian Grebing ; Wei Zhang ; John Robinson ; Lindsay Sonderhouse ; Paula Heu ; David Follman ; Christoph Deutsch ; Garrett D. Cole ; Markus Aspelmeyer ; Fritz Riehle ; Jun Ye ; Uwe Sterr</i>	
<b>HIGH FINESSE SEMICONDUCTOR SUPERMIRRORS</b> .....	1219
<i>Garrett D. Cole ; David Follman ; Paula Heu ; Christoph Deutsch ; Markus Aspelmeyer</i>	
<b>BROADBAND AND HIGH RESOLUTION DIRECT MEASUREMENT OF CAVITY RESONANCES</b> .....	1220
<i>Lucile Rutkowski ; Alexandra C. Johansson ; Amir Khodabakhsh ; Aleksandra Foltynowicz</i>	
<b>SYNCHRONIZATION OF DISTANT OPTICAL CLOCKS ACROSS FREE-SPACE OPTICAL LINKS</b> .....	1221
<i>Nathan R. Newbury ; Laura C. Sinclair ; Hugo Bergeron ; William C. Swann ; Jean-Daniel Deschênes ; Esther Baumann ; Ian Coddington ; Fabrizio Giorgetta ; Isaac Khader</i>	
<b>AN OPTICAL LATTICE CLOCK BREADBOARD DEMONSTRATOR FOR THE I-SOC MISSION ON THE ISS</b> .....	1222
<i>S. Origlia ; M. S. Pramod ; S. Schiller ; Y. Singh ; S. Viswam ; K. Bongs ; S. Häfner ; S. Berbers ; S. Dörscher ; A. Al-Masoudi ; R. Schwarz ; U. Sterr ; Ch. Lisdat</i>	
<b>MULTI-BRANCH ULTRA-LOW NOISE ER:FIBER FREQUENCY COMB COMPARISON</b> .....	1223
<i>Michele Giunta ; Wolfgang Hänsel ; Marc Fischer ; Matthias Lezius ; Ronald Holzwarth</i>	
<b>PHASE-AMPLITUDE NOISE CORRELATIONS IN AN OPTICAL FREQUENCY COMB</b> .....	1224
<i>Syamsundar Be ; Valerian Thiel ; Jonathan Roslund ; Claude Fahre ; Nicolas Treps</i>	
<b>LOW-NOISE MICROWAVE GENERATION WITH OPTICAL MICRORESONATORS</b> .....	1225
<i>Erwan Lucas ; John D. Jost ; Katja Beha ; Matthias Lezius ; Ronald Holzwarth ; Tobias J. Kippenberg</i>	
<b>HIGH-PRECISION RAMSEY-COMB SPECTROSCOPY IN THE DUV AND XUV SPECTRAL REGION</b> .....	1226
<i>L. S. Dreissen ; R. K. Altmann ; C. Roth ; K. S. E. Eikema</i>	
<b>PRECISE MOLECULAR SPECTROSCOPY USING A STABLE AND TUNEABLE FREQUENCY COMB</b> .....	1227
<i>Dang Bao An Tran ; Rosa Santagata ; Bérengère Argence ; Olivier Lopez ; Andrei Goncharov ; Sean Tokunaga ; Dan Xu ; Michel Abgrall ; Rodolphe Le Targat ; Paul-Eric Pottie ; Christian Chardonnet ; Christophe Daussy ; Yann Le Coq ; Benoît Darquié ; Anne Amy-Klein</i>	
<b>GAS SPECTROSCOPY WITH A FREE-RUNNING DUAL-COMB SEMICONDUCTOR DISK LASER</b> .....	1228
<i>S. M. Link ; D. J. H. C. Maas ; D. Waldburger ; U. Keller</i>	
<b>DISPERSION-INDUCED AMPLITUDE TO PHASE NOISE UP-CONVERSION</b> .....	1229
<i>Romain Bouchand ; Xiaopeng Xie ; Yann Le Coq</i>	
<b>CHARACTERIZATION OF CARRIER-ENVELOPE PHASE NOISE OF PASSIVELY PHASE-LOCKED FIBER-BASED FREQUENCY COMBS UP TO THE NYQUIST FREQUENCY</b> .....	1230
<i>Andreas Liehl ; David Fehrenbacher ; Philipp Sulzer ; Denis V. Seletskiy ; Alfred Leitenstorfer</i>	
<b>PHASE MEASUREMENT OF A MID-IR QCL COMB</b> .....	1231
<i>Matthew Singleton ; Gustavo Villares ; Jerome Faist</i>	
<b>TOWARDS THE FULL FREQUENCY STABILIZATION OF QUANTUM CASCADE LASER FREQUENCY COMBS</b> .....	1232
<i>Francesco Cappelli ; Giulio Campo ; Jacopo Galli ; Luigi Consolino ; Giovanni Giusfredi ; Pablo Cancio ; Simone Borri ; Borislav Hinkov ; Davide Mazzotti ; Saverio Bartalini ; Jérôme Faist ; Paolo De Natale</i>	
<b>METROLOGY-GRADE SUB-DOPPLER SPECTROSCOPY OF CHF<sub>3</sub> AT 8.6 μM</b> .....	1233
<i>Alessio Gambetta ; Edoardo Vicentini ; Yuchen Wang ; Nicola Coluccelli ; Toney T. Fernandez ; Eugenio Fasci ; Antonio Castrillo ; Livio Gianfrani ; Luigi Santamaria ; Valentina Di Sarno ; Pasquale Maddaloni ; Paolo Laporta ; Gianluca Galzerano</i>	
<b>OFFSET-TUNABLE, FIBER-PUMPED FREQUENCY COMB AT 7–10 μM BY DIFFERENCE FREQUENCY IN ORIENTATION-PATTERNED GAP</b> .....	1234
<i>Kevin F. Lee ; Christopher J. Hensley ; Peter G. Schunemann ; M. E. Fermann</i>	
<b>EXTREMELY-HIGH-ORDER GE IMMERSION GRATING-BASED SPECTROMETER FOR OFFSET-FREE PRECISION SPECTROSCOPY IN THE MID-INFRARED REGION</b> .....	1235
<i>Shuntaro Tani ; Takashi Sukegawa ; Takuma Nakamura ; Yohei Kobayashi</i>	
<b>PHASE NOISE REDUCTION OF AN RF OSCILLATOR BY PHOTONIC-BASED HIGHLY SENSITIVE PHASE NOISE ANALYZER</b> .....	1236
<i>N. Kuse ; M. E. Fermann</i>	
<b>CHARACTERIZATION OF THE PHASE-NOISE INDUCED BY AN OPTICAL FREQUENCY DOUBLER</b> .....	1237
<i>Marion Delehaye ; Pierre-Yves Bourgeois ; Jacques Millo ; Lucas Groult ; Ahmed Bakir ; Rodolphe Boudot ; Enrico Rubiola ; Emmanuel Bigler ; Vincent Giordano ; Yann Kersalé ; Clément Lacroûte</i>	
<b>PAIRWISE MODE-LOCKING OF COUPLED PARAMETRIC OSCILLATORS</b> .....	1238
<i>Leon Bello ; Yaakov Shaked ; Avi Pe'er</i>	
<b>REAL-TIME SUB-MICRON RANGING USING A DUAL COMB SYSTEM</b> .....	1239
<i>K. Beha ; W. Hänsel ; U. Angermüller ; M. Giunta ; M. Lezius ; R. Holzwarth</i>	
<b>KERR SUPEROSCILLATOR MODEL FOR MICRORESONATOR FREQUENCY COMBS</b> .....	1240
<i>Jonathan Silver ; Changlei Guo ; Leonardo Del Bino ; Pascal Del'Haye</i>	
<b>BEYOND 500-KHZ BANDWIDTH PIEZO-ELECTRIC TRANSDUCERS FOR GHZ-COMB APPLICATIONS</b> .....	1241
<i>Takuma Nakamura ; Shuntaro Tani ; Isao Ito ; Yohei Kobayashi</i>	
<b>FULLY REMOTE RAPID MULTIHETERODYNE SPECTROSCOPY BASED ON THE REMOTE DETECTION OF AN OPTICAL FREQUENCY COMB THROUGH OPTICAL INJECTION LOCKING AND ELECTRO-OPTIC COMB GENERATION</b> .....	1242
<i>Borja Jerez ; Frederik Walla ; Cristina De Dios ; Pedro Martín-Mateos ; Pablo Acedo</i>	

<b>REDUCED PULSE ENERGY FOR FREQUENCY STABILIZATION WITH A DUAL-PITCH PERIODICALLY POLED LITHIUM NIOBATE RIDGE WAVEGUIDE</b> .....	1243
<i>K. Hitachi ; K. Hara ; O. Tadanaga ; A. Ishizawa ; T. Nishikawa ; H. Gotoh</i>	
<b>SCANNING MICRO-RESONATOR DIRECT-FREQUENCY-COMB SPECTROSCOPY</b> .....	1244
<i>Alessio Gambetta ; Nicola Coluccelli ; Paolo Laporta ; Gianluca Galzerano</i>	
<b>EXPERIMENTAL EVIDENCE OF A FUNDAMENTAL NOISE FLOOR AT THE TENS OF MILLIHERTZ LEVEL IN LASER LOCKING ONTO UNBALANCED FIBRE-BASED MICHELSON INTERFEROMETER</b> .....	1245
<i>Frédéric Audo ; Jean-Pierre Coulon ; Fabien Kéjélian</i>	
<b>FREQUENCY LOCKING OF AN EXTENDED-CAVITY QUANTUM CASCADE LASER TO A FREQUENCY COMB FOR PRECISION MID INFRARED SPECTROSCOPY</b> .....	1246
<i>Bidoor Alsaif ; Marco Lamperti ; Davide Gatti ; Paolo Laporta ; Martin E. Fermann ; Aamir Farooq ; Marco Marangoni</i>	
<b>OPTICAL GAIN VIA IMPULSIVE ROTATIONAL EXCITATION OF NITROGEN MOLECULAR IONS</b> .....	1247
<i>Pavel Polynkin ; Ali Azarm ; Paul Corkum</i>	
<b>TRACKING AZOBENZENE PHOTOISOMERIZATION WITH SUB-20-FS UV PULSES</b> .....	1248
<i>Rocío Borrego-Varillas ; Artur Nenov ; Aurelio Oriana ; Lucia Ganzer ; Junko Omachi ; Irene Conti ; Javier Segarra-Martí ; Cristian Manzoni ; Marco Garavelli ; Giulio Cerullo</i>	
<b>DIRECT OBSERVATION OF LASER-INDUCED O<sub>2</sub><sup>+</sup> PRODUCTION FROM CO<sub>2</sub></b> .....	1249
<i>Seyedreza Larimian ; Sonia Erattupuzha ; Sebastian Mai ; Philipp Marquetand ; Sarayoo Kangaparambil ; Leticia González ; Andrius Baltuška ; Markus Kitzler ; Xinhua Xie</i>	
<b>GOUY PHASE ROTATION IN SPECTRAL MAPS OF ULTRASHORT VORTEX PULSES</b> .....	1250
<i>M. Bock ; M. Liebmann ; T. Elsaesser ; R. Grunwald</i>	
<b>OPTICAL PHASE CONTROL OF ULTRAFAST SINGLE-ELECTRON NANOCURRENTS</b> .....	1251
<i>Markus Ludwig ; Tobias Rybka ; Michael Schmalz ; Vanessa Knittel ; Daniele Brida ; Alfred Leitenstorfer</i>	
<b>TERAHERTZ BRUNEL HARMONICS IN TWO-COLOR FIELDS WITH INCOMMENSURATE FREQUENCIES IN THE MULTIPHOTON IONIZATION REGIME</b> .....	1252
<i>I. Babushkin ; C. Bree ; C. M. Dietrich ; A. Demircan ; U. Morgner ; A. Husakov</i>	
<b>IMPACT OF THE PUMP WAVELENGTH IN THZ EMISSIONS BY TWO-COLOR FEMTOSECOND LASER FILAMENTS IN AIR</b> .....	1253
<i>A. Nguyen ; P. González De Alaiza Martínez ; J. Déchard ; I. Thiele ; I. Babushkin ; S. Skupin ; L. Bergé</i>	
<b>FILAMENTATION OF CHIRPED MID-IR PULSES IN AMBIENT AIR IN THE VICINITY OF ZERO DISPERSION</b> .....	1254
<i>Claudia Gollner ; Valentina Shumakova ; Andrius Pugžlys ; Skirmantas Ališauskas ; Andrius Baltuška ; Alexander Voronin ; Alexander Mitrofanov ; Dmitriy Sidorov-Biryukov ; Alexey Zheltikov ; Daniil Kartashov</i>	
<b>FOUR-WAVE MIXING CONTROL IN THE FILAMENTATION OF ULTRAFAST BESSEL BEAMS VIA LONGITUDINAL INTENSITY-SHAPING</b> .....	1255
<i>Ismail Oudghiri-Idrissi ; Remo Giust ; John M. Dudley ; Francois Courvoisier</i>	
<b>SELF-FOCUSING BELOW THE CRITICAL POWER IN GAS-FILLED HOLLOW-CORE PCF</b> .....	1256
<i>F. Köttig ; F. Tani ; J. C. Travers ; P. St. J. Russell</i>	
<b>INTUITIVE IDENTIFICATION OF OPTIMAL FEW-TO SINGLE-CYCLE PULSE POST-COMPRESSION DYNAMICS IN HOLLOW-CORE FIBERS USING DISPERSION-SCAN</b> .....	1257
<i>J. San Roman ; E. Conejero Jarque ; F. Silva ; R. Romero ; W. Holgado ; M. A. Gonzalez-Galicia ; I. J. Sola ; H. Crespo</i>	
<b>HIGH REPETITION RATE MULTI-SIMILARITON LASER</b> .....	1258
<i>Auro M. Perego ; N. Tarasov ; Kestutis Staliunas ; Sergei K. Turitsyn</i>	
<b>HIGH-ENERGY ULTRA-SHORT PULSES FROM PURE-QUARTIC SOLITONS</b> .....	1259
<i>Andrea Blanco-Redondo ; C. Martijn De Sterke ; Chad Husko ; Benjamin Eggleton</i>	
<b>UNIVERSAL PEREGRINE SOLITON STRUCTURE IN OPTICAL FIBRE SOLITON COMPRESSION</b> .....	1260
<i>C. Billet ; A. Tikan ; G. El ; A. Tovbis ; M. Bertola ; T. Sylvestre ; F. Gustave ; S. Randoux ; G. Genty ; P. Suret ; J. M. Dudley</i>	
<b>LONGITUDINAL SOLITON PURE TUNNELING IN OPTICAL FIBER</b> .....	1261
<i>Tomy Marest ; Flavie Brand ; Matteo Conforti ; Arnaud Mussot ; Stefan Wabnitz ; Alexandre Kudlinski</i>	
<b>ULTRAFAST SIMULTANEOUS REAL TIME SPECTRAL AND TEMPORAL MEASUREMENTS OF FIBRE LASER MODELOCKING DYNAMICS</b> .....	1262
<i>Mikko Närhi ; Piotr Ryczkowski ; Cyril Billet ; Goëry Genty ; John M. Dudley</i>	
<b>REAL TIME MEASUREMENTS OF ULTRAFAST SPONTANEOUS MODULATION INSTABILITY AND ROGUE WAVES IN OPTICAL FIBRE</b> .....	1263
<i>Mikko Närhi ; Benjamin Wetzel ; Cyril Billet ; Jean-Marc Merolla ; Shanti Toenger ; Thibaut Sylvestre ; Roberto Morandotti ; Goëry Genty ; Frederic Dias ; John M. Dudley</i>	
<b>ULTRAFAST SPIN DYNAMICS AND THZ SPINTRONICS</b> .....	1264
<i>Markus Münzenberg</i>	
<b>SUB-PICOSECOND GAIN AND MAGNETIC FIELD CONTROL OF FEW-FERMION DYNAMICS IN SINGLE CDSE/ZNSE QUANTUM DOTS</b> .....	1265
<i>C. Hinz ; P. Gumbsheimer ; C. Traum ; B. Bauer ; D. V. Seletskiy ; A. Leitenstorfer</i>	
<b>GIANT AC STARK EFFECT IN A STRONGLY-COUPLED LIGHT-MATTER SYSTEM</b> .....	1266
<i>D. Panna ; N. Landau ; S. Bouscher ; L. Rybak ; S. Tsesses ; G. Adler ; S. Brodbeck ; C. Schneider ; S. Hoefling ; A. Hayat</i>	
<b>DYNAMIC MICROMETRIE MULTIFILAMENTATION CONTROL AND SUPERCONTINUUM TUNING BY A SINGLE PHASE ELEMENT</b> .....	1267
<i>C. Doñate-Buendía ; O. Mendoza-Yero ; M. Carbonell-Leal ; G. Mínguez-Vega ; J. Lancis</i>	
<b>ULTRAFAST CONTROL OF DEEPLY SUBWAVELENGTH PERIODIC GRATINGS IN RESONANT MEDIUM BY FEW-CYCLE PULSES</b> .....	1268
<i>M. V. Arkhipov ; R. M. Arkhipov ; I. V. Babushkin ; A. V. Pakhomov ; N. N. Rosanov ; A. Demircan ; U. Morgner</i>	

<b>CONTROL OF FEMTOSECOND FILAMENTATION BY REVIVALS OF NONADIABATIC MOLECULAR ALIGNMENT</b> .....	1269
<i>Necati Kaya ; Gamze Kaya ; Yakup Boran ; Alexandre A. Kolomenskii ; Mahmood Amani ; Hans A. Schuessler</i>	
<b>FS-PULSE PROPAGATION IN PRESENCE OF SELF-TRAPPED EXCITONS</b> .....	1270
<i>Andreas Krampf ; Simon Messerschmidt ; Mirco Imlau</i>	
<b>FEMTOSECOND INTRAPULSE EVOLUTION OF FARADAY ROTATION</b> .....	1271
<i>Margarita I. Sharipova ; Alexandr I. Musorin ; Tatyana V. Dolgova ; M. Inoue ; Andrey A. Fedyanin</i>	
<b>CONTROLLING THE RELAXATION PATHWAYS BY SUBSTITUENT EFFECTS IN CONJUGATED DIENES</b> .....	1272
<i>Tateharu Tentaku ; Ryunosuke Atohe ; Kotaro Araki ; Sota Satoh ; Yu Harabuchi ; Tetsuya Taketsugu ; Taro Sekikawa</i>	
<b>NEXT GENERATION ULTRAFAST TIME-RESOLVED INFRARED SPECTROSCOPY AT THE CENTRAL LASER FACILITY</b> .....	1273
<i>Gregory M. Greetham ; Ian P. Clark ; Paul M. Donaldson ; Igor V. Sazanovich ; Michael Towrie</i>	
<b>INFLUENCE OF DISPERSION OF NONLINEARITY ON COHERENT SUPERCONTINUUM GENERATION BANDWIDTH IN PHOTONIC CRYSTAL FIBERS PUMPED AT 2 <math>\mu</math>M</b> .....	1274
<i>Mariusz Klimczak ; Bartłomiej Siwicki ; Binbin Zhou ; Morten Bache ; Dariusz Pysz ; Ole Bang ; Ryszard Buczynski</i>	
<b>TRANSIENT ENERGY TRANSFER ON THE FEMTOSECOND TIMESCALE IN LITHIUM NIOBATE</b> .....	1275
<i>Stefan Nolte ; Björn Bourdon ; Felix Freytag ; Mirco Imlau ; Alexandr Shumelyuk ; Serguey Odoulov</i>	
<b>HIGH-ORDER NONLINEAR SCATTERING IN <math>\beta</math>-BBO NANOCRYSTALS</b> .....	1276
<i>E. L. Falcão-Filho ; I. P. Miranda ; L. J. Q. Maia ; C. B. De Araújo</i>	
<b>OBSERVATION OF SOLITON BUILD-UP PROCESS IN AN ULTRAFAST FIBER LASER</b> .....	1277
<i>Hong-Jie Chen ; Meng Liu ; Jian-Bo He ; Ai-Ping Luo ; Wen-Cheng Xu ; Zhi-Chao Luo</i>	
<b>NOVEL INTERACTIONS OF DISSIPATIVE KERR SOLITONS IN NONLINEAR CAVITY NETWORKS</b> .....	1278
<i>Joseph H. D. Munns ; Ian A. Walmsley ; Y. Henry Wen</i>	
<b>EFFECT OF CHERENKOV RADIATION ON THE INTERACTION OF TEMPORAL DISSIPATIVE SOLITONS IN A DRIVEN CAVITY WITH HIGH ORDER DISPERSION</b> .....	1279
<i>A. G. Vladimirov ; S. V. Gurevich ; M. Tlidi</i>	
<b>EXPERIMENTAL INVESTIGATIONS OF SWITCHING WAVE DYNAMICS AND LOCKING IN A NORMALLY DISPERSIVE KERR RING RESONATOR</b> .....	1280
<i>B. Garbin ; Y. Wang ; S. G. Murdoch ; G. -L. Oppo ; M. Erkintalo ; S. Coen</i>	
<b>OBSERVATION OF TWO-PHOTON ABSORPTION INDUCED SOLITON FISSION</b> .....	1281
<i>C. Ciret ; S. -P. Gorza ; G. Roelkens ; B. Kuyken ; F. Leo</i>	
<b>EXPERIMENTAL OBSERVATION OF SUPER CAVITY SOLITONS</b> .....	1282
<i>M. Anderson ; Y. Wang ; F. Leo ; S. Coen ; M. Erkintalo ; S. G. Murdoch</i>	
<b>CAVITY LIGHT BULLETS IN PASSIVELY MODE-LOCKED SEMICONDUCTOR LASERS</b> .....	1283
<i>J. Javaloyes</i>	
<b>OBSERVATION OF MODE-LOCKED SPATIAL LASER SOLITONS</b> .....	1284
<i>F. Gustave ; N. Radwell ; J. P. Toomey ; T. Guillet ; C. McIntyre ; S. Barland ; D. M. Kane ; W. J. Firth ; G. -L. Oppo ; T. Ackemann</i>	
<b>BIFURCATION ANALYSIS OF THE TRANSVERSE PROFILE OF LIGHT BULLETS IN PASSIVELY MODE-LOCKED SEMICONDUCTOR LASERS</b> .....	1285
<i>S. V. Gurevich ; C. Schelte ; J. Javaloyes</i>	
<b>PULSE BOUND-STATE CLUSTERS IN COUPLED MODE-LOCKED LASERS</b> .....	1286
<i>D. Puzyrev ; A. G. Vladimirov ; A. Pimenov ; S. V. Gurevich ; S. Yanchuk</i>	
<b>247 FS TIME-LOCALIZED STRUCTURES FROM A PASSIVELY MODE-LOCKED FIGURE-OF-EIGHT SEMICONDUCTOR LASER</b> .....	1287
<i>Daniel Chaparro ; Luca Furfaro ; Salvador Balle</i>	
<b>EXPERIMENTALLY CHARACTERIZED NONLINEAR FOURIER TRANSFORM OF A MODE-LOCKED FIBRE LASER</b> .....	1288
<i>Srikanth Sugavanam ; Morteza Kamalian ; Junsong Peng ; Jaroslav E. Prilepsky ; Sergei K. Turitsyn</i>	
<b>BREATHING DISSIPATIVE SOLITONS IN MICRORESONATORS</b> .....	1289
<i>E. Lucas ; M. Karpov ; H. Guo ; V. Brasch ; M. H. P. Pfeiffer ; M. Anderson ; J. Liu ; M. Geiselmann ; J. D. Jost ; M. L. Gorodetsky ; T. J. Kippenberg</i>	
<b>UNIVERSAL DYNAMICS AND DETERMINISTIC SWITCHING OF DISSIPATIVE KERR SOLITONS IN OPTICAL MICRORESONATORS</b> .....	1290
<i>Hairun Guo ; Maxim Karpov ; Erwan Lucas ; Arne Kordts ; Martin H. P. Pfeiffer ; Victor Brasch ; Grigory Lihachev ; Valery E. Lobanov ; Michael L. Gorodetsky ; Tobias J. Kippenberg</i>	
<b>THERMAL INSTABILITY CONTROL BY FOUR WAVE MIXING IN OPTICAL MICROCAVITIES</b> .....	1291
<i>Luigi Di Lauro ; Li Jin ; David J. Moss ; Roberto Morandotti ; Sai T. Chu ; Marco Peccianti ; Alessia Pasquazi</i>	
<b>TEMPORAL DISSIPATIVE SOLITONS IN A FABRY-PÉROT MICRORESONATOR DRIVEN BY OPTICAL PULSES</b> .....	1292
<i>E. Obrzud ; S. Lecomte ; T. Herr</i>	
<b>SILICON-MICRORING INTO A FIBER LASER CAVITY FOR HIGH-REPETITION-RATE PULSE TRAIN GENERATION</b> .....	1293
<i>Maiwen Meisterhans ; Aurélien Coillet ; Foued Amrani ; Olivier Demichel ; Jean-Baptiste Jager ; Pierre Noé ; Jean-Marc Fédéli ; Frédérique De Fornel ; Philippe Grellu ; Benoît Cluzel</i>	
<b>SPONTANEOUS SYMMETRY BREAKING OF COUNTERPROPAGATING LIGHT IN MICRORESONATORS</b> .....	1294
<i>Leonardo Del Bino ; Jonathan M. Silver ; Sarah L. Stebbings ; Pascal Del'Haye</i>	

<b>CLEO@EUROPE-EQEC 2017, ONE PAGE SUMMARY TEMPLATE OPTICAL VORTEX INDUCTION VIA LIGHT-MATTER INTERACTION IN LIQUID-CRYSTAL MEDIA .....</b>	<b>1295</b>
<i>Marcel Clerc</i>	
<b>QUANTUM DROPLETS OF LIGHT IN THE PRESENCE OF SYNTHETIC MAGNETIC FIELDS .....</b>	<b>1296</b>
<i>Kali Wilson ; Niclas Westerberg ; Manuel Valiente ; Callum Duncan ; Ewan Wright ; Patrik Öhberg ; Daniele Faccio</i>	
<b>THE QUASI-AIRY BEAM GENERATED WITH 2D MODULATED PHOTONIC LATTICE .....</b>	<b>1297</b>
<i>Xiaojun Li ; Zheng Cao</i>	
<b>EMBEDDING UMBILIC CATASTROPHES IN ARTIFICIALLY DESIGNED CAUSTIC BEAMS .....</b>	<b>1298</b>
<i>C. Mansch ; A. Zannotti ; C. Denz</i>	
<b>DYNAMIC OF PULSE-PULSE INTERACTIONS DURING EXTREME OPTICAL EVENTS .....</b>	<b>1299</b>
<i>S. A. Kolpakov ; S. V. Sergeev</i>	
<b>CHARACTERISATION OF EMERGENT PROPERTIES DURING THE TRANSITION TO OPTICAL TURBULENCE IN A FIBRE LASER .....</b>	<b>1300</b>
<i>Laura Carpi ; Cristina Masoller</i>	
<b>PARAMETRIC INSTABILITY IN A PERIODIC MULTIMODE FIBER .....</b>	<b>1301</b>
<i>C. Mas Arabi ; M. Conforti ; A. Mussot ; A. Kudlinski</i>	
<b>NEW MULTISOLITON COMPLEX IN BI-DOPED FIBER LASER OPERATED AT 1450 NM .....</b>	<b>1302</b>
<i>Regina Gumenyuk ; Joona Rissanen ; Dmitry A. Korobko ; Igor O. Zolotovskiy ; Mikhail Melkunov ; Vladimir F. Khopin</i>	
<b>BICHROMATICALLY PUMPED NONLINEAR FIBER RING CAVITY .....</b>	<b>1303</b>
<i>Abdelkrim Bendahmane ; Davide Ceoldo ; Julien Fatome ; Guy Millot ; Tobias Hansson ; Daniele Modotto ; Stefan Wabnitz ; Bertrand Kibler</i>	
<b>EXPERIMENTAL INVESTIGATION OF DAM-BREAKING PROBLEM IN OPTICAL FIBERS .....</b>	<b>1304</b>
<i>Gang Xu ; Matteo Conforti ; Arnaud Mussot ; Alexandre Kudlinski ; Stefano Trillo</i>	
<b>CRITICAL SLOWING-DOWN: INDICATOR OF EXTREME EVENTS? .....</b>	<b>1305</b>
<i>Cyrille Metayer ; Jean Marc Boyer ; Alexis Gomel ; Jorge Tredicce</i>	
<b>VECTOR ROGUE WAVES IN A CARBON NANOTUBE MODE-LOCKED FIBER LASER .....</b>	<b>1306</b>
<i>Hani Khashi ; Mohamed Al-Araimi ; Alex Rozhin ; Sergey V. Sergeev</i>	
<b>OPTICAL ROGUE WAVES IN A LASER WITH SATURABLE ABSORBER .....</b>	<b>1307</b>
<i>Cristina Rimoldi ; Franco Prati ; Stéphane Barland ; Giovanna Tissoni</i>	
<b>SINGLE SHOT OBSERVATION OF ROGUE WAVES IN OPTICAL TURBULENCE BY USING TIME MICROSCOPY .....</b>	<b>1308</b>
<i>Pierre Suret ; Rebecca El Koussaifi ; Alexey Tikan ; Clément Evain ; Christophe Sz waj ; Stéphane Randoux ; Serge Bielawski</i>	
<b>NONLOCALITY INDUCES KNOTTED CHAINS OF LOCALIZED STRUCTURES IN LASERS .....</b>	<b>1309</b>
<i>J. Javaloyes ; M. Marconi ; M. Giudici</i>	
<b>POLARISATION PROPERTIES OF CAVITY SOLITONS IN VCSELS: THEORY AND EXPERIMENT .....</b>	<b>1310</b>
<i>Mustapha Tlidi ; Etienne Averlant ; Krassimir Panajotov</i>	
<b>TRANSITION BETWEEN TURBULENT REGIMES IN A FORCED SEMICONDUCTOR LASER .....</b>	<b>1311</b>
<i>P. Walczak ; C. Rimoldi ; G. Tissoni ; S. Barland</i>	
<b>PHASE SENSITIVITY OF MODE-LOCKING WITH OPTICAL FEEDBACK .....</b>	<b>1312</b>
<i>Lina Jaurigue ; Bernd Krauskopf ; Kathy Lüdge</i>	
<b>POLARIZATION SWITCHING NONLINEAR DYNAMICS IN LONG-WAVELENGTH SINGLE-MODE VCSELS SUBJECT TO PARALLEL OPTICAL INJECTION .....</b>	<b>1313</b>
<i>F. Denis-Le Coarer ; A. Quirce ; A. Valle ; L. Pesquera ; M. Sciamanna ; K. Panajotov ; H. Thienpont</i>	
<b>ASYMMETRIC MODE SCATTERING IN STRONGLY COUPLED PHOTONIC CRYSTAL NANOLASERS .....</b>	<b>1314</b>
<i>M. Marconi ; F. Raineri ; J. Javaloyes ; A. Levenson ; A. M. Yacomotti</i>	
<b>TWO-DIMENSIONAL ACOUSTIC HORIZON AND ERGOSPHERE IN A NONLOCAL PHOTON SUPERFLUID .....</b>	<b>1315</b>
<i>David Vocke ; Calum Maitland ; Angus Prain ; Francesco Marino ; Daniele Faccio</i>	
<b>TWO-PULSE INTERACTION AT AN OPTICAL EVENT HORIZON IN SILICON-ON-INSULATOR NANOPHOTONIC WAVEGUIDE .....</b>	<b>1316</b>
<i>Nicolas Pouvellarie ; Charles Ciret ; Simon-Pierre Gorza</i>	
<b>SLOW PASSAGE TO BURSTING EFFECTS IN AN OPTICALLY INJECTED LASER .....</b>	<b>1317</b>
<i>B. Kelleher ; B. Tykalewicz ; D. Goulding ; N. Fedorov ; I. Dubinkin ; T. Erneux ; E. A. Viktorov</i>	
<b>STOCHASTIC RESONANCE WITH PHASE NOISE IN AN INTEGRATED NANO-ELECTRO-MECHANICAL PHOTONIC CRYSTAL MEMBRANE .....</b>	<b>1318</b>
<i>Avlshkek Chowdhury ; Sylvain Barbay ; Marcel Clerc ; Isabelle Robert-Philip ; Rémy Braive</i>	
<b>DEMONSTRATION OF ON-CHIP MULTI-MODE PHASE-SENSITIVE AMPLIFICATION .....</b>	<b>1319</b>
<i>Y. Zhang ; C. Reimer ; J. Wu ; P. Roztocky ; B. Wetzel ; Brent E. Little ; S. T. Chu ; D. J. Moss ; M. Kues ; R. Morandotti</i>	
<b>CAVITY-ENHANCED FREQUENCY UP-CONVERSION IN RUBIDIUM VAPOUR .....</b>	<b>1320</b>
<i>Rachel F. Offer ; Johnathan W. C. Conway ; Erling Riis ; Sonja Franke-Arnold ; Aidan S. Arnold</i>	
<b>EXPERIMENTAL OBSERVATION OF CAVITY SOLITON STATES IN SILICA MICROSPHERES .....</b>	<b>1321</b>
<i>Karen E. Webb ; Miro Erkintalo ; Stéphane Coen ; Stuart G. Murdoch</i>	
<b>MODULATION INSTABILITY IN THE WEAK DISPERSION REGIME OF DISPERSION OSCILLATING FIBER-RING CAVITIES .....</b>	<b>1322</b>
<i>François Copie ; Matteo Conforti ; Alexandre Kudlinski ; Stefano Trillo ; Arnaud Mussot</i>	
<b>MECHANISMS OF SPATIO-TEMPORAL LOCALIZATION OF HIGH-INTENSIVE FEMTOSECOND PULSES IN KERR MEDIA: LIGHT BULLET SCENARIOS .....</b>	<b>1323</b>
<i>O. Fedotova ; O. Khasanov ; G. Rusetzky ; T. Smirnova ; E. Gaižauskas ; V. Kadan</i>	

<b>MODULATIONAL INSTABILITY AND SOLITONS IN MICRORING RESONATORS WITH LOCALIZED PUMP</b> .....	1324
<i>Yaroslav V. Kartashov ; Dmitry V. Skryabin</i>	
<b>LASING WITH PROPAGATION INVARIANT SHAPED BEAMS</b> .....	1325
<i>Ronen Chriki ; Slava Smartsev ; Gilad Barach ; Chene Tradonsky ; Vishwa Pal ; Asher A. Friesem ; Nir Davidson</i>	
<b>DISPERSION-DESIGNED ANTIRESONANT HOLLOW-CORE FIBERS FOR SUPERCONTINUUM GENERATION BY SOLITON EXPLOSION</b> .....	1326
<i>R. Sollapur ; D. Kartashov ; M. Zürich ; A. Hoffmann ; T. Grigorova ; A. Hartung ; A. Schwuchow ; J. Bierlich ; J. Kobelke ; M. A. Schmidt ; C. Spielmann</i>	
<b>AN APPROACH OF THE SPACE-TIME EMPIRICAL MODES TO THE NONLINEAR PHENOMENA IN LASERS WITH LOW-Q CAVITIES</b> .....	1327
<i>Vladimir Kocharovsky ; Alexander Feigin ; Andrey Gavrilov ; Ekaterina Kocharovskaya ; Vitaly Kocharovsky ; Eugeny Loskutov ; Dmitry Mukhin</i>	
<b>SPECTRUM NARROWING OF PUMPS WITH DIFFERENT STATISTICAL PROPERTIES IN FIBERS WITH NORMAL DISPERSION</b> .....	1328
<i>Serguei Papernyi ; Vladimir Ivanov ; Wallace Clements</i>	
<b>BOUNDED-PHASE CHAOTIC DYNAMICS IN A VECTORIAL LASER</b> .....	1329
<i>Aurélien Thorette ; Marco Romanelli ; Marc Brunei ; Marc Vallet</i>	
<b>INFLUENCE OF RAMAN SCATTERING ON CAVITY SOLITON STABILITY</b> .....	1330
<i>Y. Wang ; M. Anderson ; S. Coen ; M. Erkintalo ; S. G. Murdoch</i>	
<b>INFLUENCE OF STIMULATED BRILLOUIN SCATTERING ON THE DYNAMICS OF A SELF-PULSING FIBER LASER</b> .....	1331
<i>D. Matiek ; P. -H. Hanzard ; D. Boukhaoui ; A. Kellou ; H. Leblond ; F. Sanchez ; T. Godin ; A. Hideur</i>	
<b>ARRAY-ENHANCED SYNCHRONIZATION AND COHERENCE RESONANCE IN COUPLED EXCITABLE SEMICONDUCTOR LASERS</b> .....	1332
<i>Auro M. Perego ; Marco Lamperti</i>	
<b>GENERATION OF UTRASHORT PULSES BY FOUR WAVE MIXING IN A GAS-FILLED HOLLOW CORE FIBER</b> .....	1333
<i>Anna G. Ciriola ; Giacomo Mariani ; Matteo Negro ; Michele Beveva ; Davide Faccialà ; Aditya Pusala ; Caterina Vozzi ; Salvatore Stagira</i>	
<b>GENERATION AND INTERACTIONS OF OPTICAL SPATIAL SOLITONS IN NANOCOLLOIDAL MEDIA</b> .....	1334
<i>A. Bartolo-González ; A. Balbuena Ortega ; A. V. Arzola ; K. Volke-Sepúlveda</i>	
<b>MULTIPHASE PATTERNS IN A DEGENERATE NONLINEAR OSCILLATOR</b> .....	1335
<i>R. Martínez-Lorente ; K. Staliunas ; E. Roldán ; F. Silva ; G. J. De Valcárcel</i>	
<b>BIFURCATION ANALYSIS OF NONLINEAR COUPLED PHOTONIC NANOCAVITIES</b> .....	1336
<i>Neil G. R. Broderick ; Bernd Krauskopf ; Soizic Terrien ; Bruno Garbin ; M. Brunstein ; A. M. Yacomotti ; Ariel Levenson</i>	
<b>SHOCK-INDUCED COMPLEX PHASE-SPACE DYNAMICS OF STRONGLY TURBULENT FLOWS</b> .....	1337
<i>G. Xu ; D. Vocke ; D. Faccio ; J. Garnier ; J. Barré ; S. Trillo ; A. Picozzi</i>	
<b>CONTROL OF POLARISATION ROTATION AND FRAGMENTATION OF VECTOR VORTEX BEAMS IN NONLINEAR MEDIA</b> .....	1338
<i>C. J. Gibson ; P. Bevington ; G. -L. Oppo ; A. M. Yao</i>	
<b>CHANGES IN NORMALIZED PERMUTATION ENTROPY DURING NON-COHERENT PULSE-PULSE INTERACTION IN THE LASER CAVITY</b> .....	1339
<i>D. J. Little ; H. Khashi ; S. A. Kolpakov ; D. M. Kane ; S. V. Sergeev</i>	
<b>TEMPORAL SOLITONS IN THE PRESENCE OF DISTRIBUTED AND LOCALIZED LOSS</b> .....	1340
<i>Ch. Mahnke ; A. Hause ; F. Mischke</i>	
<b>SHAPING THE NONLINEAR NEARFIELD: THE PLASMONIC ANALOGUE OF YOUNG'S DOUBLE SLIT EXPERIMENT</b> .....	1341
<i>D. Wölfl ; T. Schumacher ; M. Lippitz</i>	
<b>SECOND-HARMONIC GENERATION MICROSCOPY OF PLASMONIC OLIGOMERS USING CYLINDRICAL VECTOR BEAMS</b> .....	1342
<i>Godofredo Bautista ; Christoph Dreser ; Xiaorun Zang ; Dieter P. Kern ; Martti Kauranen ; Monika Fleischer</i>	
<b>DISPERSION OF THE NONLINEAR SUSCEPTIBILITY IN GOLD NANOANTENNAS</b> .....	1343
<i>Vanessa Knittel ; Marco P. Fischer ; Alfred Leitenstorfer ; Daniele Brida</i>	
<b>SPLIT HOLE RESONATOR: A NANOSCALE UV LIGHT SOURCE</b> .....	1344
<i>Pavel N. Melentiev ; Anton E. Afanasiev ; Artur A. Kuzin ; Rinat O. Esenaliev ; Victor I. Balykin</i>	
<b>ANTENNA-ENHANCED NONLINEAR INFRARED SPECTROSCOPY UNDER INTERNAL REFLECTION GEOMETRY</b> .....	1345
<i>Ikki Morichika ; Fumiya Kusa ; Akinobu Takegami ; Satoshi Ashihara</i>	
<b>EXTREME TWISTS OF LIGHT IN PHOTONIC CRYSTAL WAVEGUIDES</b> .....	1346
<i>I. Palstra ; N. D. Kösters ; F. Alpeggiani ; L. Kuipers</i>	
<b>MEASURING THE TRANSVERSE SPIN DENSITY OF THE MAGNETIC FIELD</b> .....	1347
<i>M. Neugebauer ; J. Eismann ; T. Bauer ; P. Banzer ; G. Leuchs</i>	
<b>LOOKING INSIDE A 3D SCATTERING MEDIUM TO OBSERVE THE 3D SPATIALLY-RESOLVED OPTICAL ENERGY DENSITY THAT IS ENHANCED BY WAVEFRONT SHAPING</b> .....	1348
<i>Peilong Hong ; Oluwafemi S. Ojambati ; Ad Lagendijk ; Allard P. Mosk ; Willem L. Vos</i>	
<b>CHIRALITY AND NATURAL OPTICAL ACTIVITY IN DISORDERED MEDIA</b> .....	1349
<i>F. A. Pinheiro ; V. A. Fedotov ; N. Papanikolaou</i>	
<b>QUANTITATIVE STUDY OF OPEN CHANNELS BY DIGITAL HOLOGRAPHY</b> .....	1350
<i>Alexey Brodoline ; Nicolas Verrier ; Ludovic Depreter ; Didier Felbacq ; Michel Gross</i>	

<b>NANOSCALE MAGNETIC IMAGING USING A COMPACT HIGH-HARMONIC SOURCE</b> .....	1351
<i>Sergey Zayko ; Ofer Kfir ; Christina Nolte ; Murat Sivis ; Marcel Möller ; Fabian Ganss ; Birgit Hebler ; Daniel Steil ; Sascha Schäfer ; Manfred Albrecht ; Oren Cohen ; Stefan Mathias ; Claus Ropers</i>	
<b>SCATTERING OF LIGHT FROM QUANTUM DIPOLES IN CHIRAL WAVEGUIDES</b> .....	1352
<i>Ben Lang ; Dara McCutcheon ; Andrew Young ; Ruth Oulton</i>	
<b>PHOTONIC ENTANGLEMENT PROCESSING WITH A SINGLE SUB-WAVELENGTH STRUCTURE</b> .....	1353
<i>Gabriel Molina-Terriza ; Alexander Buese ; Mathieu Juan ; Nora Tischler ; Vincenzo D'Ambrosio ; Fabio Sciarrino ; Lorenzo Marrucci</i>	
<b>GRAPHENE HYBRID OPTOMECHANICAL PLATFORM FOR PROBING INTERPLAY BETWEEN INTERNAL AND MACROSCOPIC DEGREE OF FREEDOM</b> .....	1354
<i>Kevin Makles ; Dominik Metten ; Xin Zhang Pierre Vertat ; Stéphane Berciaud</i>	
<b>A QUANTUM PLASMONIC NANOCIRCUIT ON A SEMICONDUCTOR PLATFORM</b> .....	1355
<i>Xiaofei Wu ; Ping Jiang ; Gary Razinskas ; Yongheng Huo ; Hongyi Zhang ; Margin Kamp ; Armando Rastelli ; Oliver G. Schmidt ; Bert Hecht ; Klas Lindfors ; Markus Lippitz</i>	
<b>ON THE IMPORTANCE OF NONLOCAL EFFECTS ON THE DESCRIPTION OF EMITTER-PLASMON COUPLING</b> .....	1356
<i>Christos Tserkezis ; Martijn Wubs ; N. Asger Mortensen</i>	
<b>ULTRA-LOW POWER OPTICAL TRANSISTOR USING A SINGLE QUANTUM DOT EMBEDDED IN A PHOTONIC WIRE</b> .....	1357
<i>H. A. Nguyen ; T. Grange ; N. S. Malik ; E. Dupuy ; D. Tumanov ; P. L. De Assis ; I. Yeo ; F. Fratini ; N. Gregersen ; A. Auffèves ; J. M. Gérard ; J. Claudon ; J. P. Poizat</i>	
<b>CONTROLLING THE QUANTUM STATE OF FREE ELECTRONS BY INELASTIC OPTICAL NEAR-FIELD SCATTERING</b> .....	1358
<i>Katharina E. Priebe ; Sergey V. Yalunin ; Christopher Rathje ; Armin Feist ; Sascha Schäfer ; Claus Ropers</i>	
<b>ALL-OPTICAL SPATIO-TEMPORAL CONTROL OF ELECTRON EMISSION FROM ISOLATED DIELECTRIC NANOSPHERES WITH TWO-COLOR LASER PULSES</b> .....	1359
<i>Sergey Zherebtsov ; Qingcao Liu ; Lennart Seiffert ; Philipp Henning ; Slawomir Skruszewicz ; Philipp Rupp ; Christian G. Schäfer ; Alexander Kessel ; Sergei Trushin ; Eckart Rühl ; Abdallah M. Azzeer ; Josef Tiggesbäumker ; Marcelo F. Ciappina ; Markus Gallei ; Thomas Fennel ; Matthias F. Kling</i>	
<b>STRONG NEAR-FIELD INDUCED MOLECULAR PROCESSES ON NANOPARTICLES</b> .....	1360
<i>Philipp Rupp ; Christian Burger ; Nora G. Kling ; Matthias Kübel ; Lennart Seiffert ; Eckart Rühl ; Christian G. Schäfer ; Markus Gallei ; Boris Bergues ; Thomas Fennel ; Matthias F. Kling</i>	
<b>SUB-OPTICAL-CYCLE CONTROL OF FREE ELECTRONS BY OPTICAL NEAR-FIELDS</b> .....	1361
<i>Martin Kozák ; Joshua McNeur ; Kenneth J. Leedle ; Huiyang Deng ; Norbert Schönenberger ; Axel Ruehl ; Ingmar Hartl ; James S. Harris ; Robert L. Byer ; Peter Hommelhoff</i>	
<b>HIGH HARMONIC GENERATION BY RESONANT NANO-ANTENNAS: PHASE MATCHING AT THE NANOMETER SCALE</b> .....	1362
<i>Carlos Hernández-García ; Manuel Blanco ; Alexis Chacón ; Maciej Lewenstein ; M. Teresa Flares-Arias ; Luis Plaja</i>	
<b>HOT ELECTRONS AND NONLINEAR OPTICAL NANOANTENNAS</b> .....	1363
<i>Olivier Demichel ; Régis Méjard ; Sviatlana Viarbitskaya ; Alexandre Bouhelier ; Benoit Cluzel</i>	
<b>HYBRID PHOTONIC-PLASMONIC RESONANCES TO CONTROL SPONTANEOUS AND STIMULATED EMISSION</b> .....	1364
<i>A. Femijs Koenderink</i>	
<b>ULTRA-STRONG LIGHT-MATTER COUPLING WITH FEW ELECTRONS IN SINGLE LC RESONATORS</b> .....	1365
<i>G. Scalari ; J. Keller ; S. Cibella ; C. Maissen ; R. Leoni ; M. Beck ; J. Faist</i>	
<b>DESIGN OF STRONG-COUPLING MICROCAVITIES FOR OPTOELECTRONIC APPLICATIONS</b> .....	1366
<i>Henry Fernandez ; Saverio Russo ; William L. Barnes</i>	
<b>PURCELL EFFECT AND PHOTOLUMINESCENCE EMISSION ENHANCEMENT OF INDIVIDUAL CDSE/CDS/PMMA NANO PARTICLES COUPLED TO METALLIC BULLSEYE RESONATORS</b> .....	1367
<i>Florian Werschlger ; Benjamin Lindner ; Christopher Hinz ; Tjaard De Roo ; Stefan Mecking ; Denis V. Seletskiy ; Alfred Leitenstorfer</i>	
<b>QUANTUM EMITTERS IN FLATLAND</b> .....	1368
<i>Igor Aharonovich</i>	
<b>A SINGLE MOLECULE AS A HIGH-FIDELITY PHOTON GUN FOR PRODUCING INTENSITY-SQUEEZED LIGHT</b> .....	1369
<i>Xiao-Liu Chu ; Stephan Götzinger ; Vahid Sandoghdar</i>	
<b>EXTENSION OF ELECTRON SPIN COHERENCE IN A QUANTUM DOT VIA CPT-LOCKING OF THE OVERHAUSER FIELD</b> .....	1370
<i>Dorian Gangloff ; Gabriel Éthier-Majcher ; Robert Stockill ; Claire Le Gall ; Mete Atatüre</i>	
<b>STRONG BIEXCITON EMISSION ENHANCEMENT OF A SINGLE QUANTUM DOT BY A PLASMONIC NANOCONE ANTENNA</b> .....	1371
<i>Korenobu Matsuzaki ; Hsuan-Wei Liu ; Anke Dutschke ; Stephan Götzinger ; Vahid Sandoghdar</i>	
<b>QUENCHING DYNAMICS AND PHOTO-PHYSICS OF NITROGEN-VACANCY CENTRES IN NANODIAMONDS</b> .....	1372
<i>Reece P. Roberts ; Mathieu Juan ; Gabriel Molina-Terriza</i>	
<b>THZ NEAR-FIELD STREAKING SPECTROSCOPY AT BIASED METAL NANOTIPS</b> .....	1373
<i>L. Wimmer ; G. Herink ; O. Karnbach ; C. Ropers</i>	
<b>OBSERVATION OF STRONG COUPLING BETWEEN SELF-ASSEMBLED H-AGGREGATE MOLECULES AND SURFACE PLASMON POLARITONS</b> .....	1374
<i>John Bigeon ; Nadia Belabas ; Christophe Minot ; Nathalie Bardou ; Alejandro Yiacomotti ; Ariel Levenson ; Sylvain Barbay ; Sylvain Le Liepvre ; Fabrice Charra</i>	



<b>FÖRSTER RESONANCE ENERGY TRANSFER BETWEEN SINGLE CDSE NANOCRYSTALS AND AN INP FILM</b> .....	1375
<i>Chiara Sinito ; Xavier Quelin ; Nathalie Simon ; Pierrick Gautier ; Anne-Marie Gonçalves ; Stéphanie Buil ; Jean-Pierre Hermier ; Damien Aureau</i>	
<b>ATOM PROBING OF THERMALLY POPULATED SURFACE POLARITONS</b> .....	1376
<i>J. C De Aquino Carvalho ; A. Laliotis ; P. Chaves De Souza Segundo ; I. Maurin ; D. De Sousa Meneses ; P. Echegut ; M. Ducloy ; D. Bloch</i>	
<b>TRANSDUCING ELECTROMAGNETIC WAVES WITH SOFT PHONON POLARITONS</b> .....	1377
<i>K. Sato ; A. Glippe ; A. Noguchi ; R. Yamazaki ; K. Usami ; Y. Nakamura</i>	
<b>TRAPPING OF RARE EARTH-DOPED NANORODS WITH HIGH ASPECT RATIOS USING OPTICAL FIBER-TIP NANO-TWEEZERS</b> .....	1378
<i>Jochen Fick ; Godefroy Leménager ; Maud Thiriet ; Khalid Lallid ; Thierry Gacoïn ; Francisco Valdivia-Valero ; Gérard Colas Des Francs</i>	
<b>QUANTUM EMITTER STATES DRESSED BY THE PLASMON MODES OF A METAL NANOPARTICLE IN THE STRONG COUPLING REGIM</b> .....	1379
<i>H. Varguet ; B. Rousseaux ; D. Dzsojtan ; H. R. Jauslin ; G. Colas Des Francs ; S. Guérin</i>	
<b>ANTICORRELATION OF PHOTOLUMINESCENCE FROM D-BAND HOLES WITH HOT-SPOT STRENGTH BETWEEN TWO GOLD BIPYRAMIDS</b> .....	1380
<i>Dmitry Sivun ; Cynthia Vidal ; Battulga Munkhbat ; Nikita Arnold ; Thomas A. Klar ; Calin Hrelescu</i>	
<b>SURFACE-PLASMON ENABLED CONTROL OVER MAGNETIZATION DYNAMICS IN HYBRID MAGNETOPLASMONIC CRYSTALS</b> .....	1381
<i>A. L. Chekhov ; I. Razdolski ; A. I. Stognij ; T. Satoh ; T. V. Murzina ; A. Stupakiewicz</i>	
<b>MEASURE THE HEISENBERG INTERACTION IN A POLARITON DYAD</b> .....	1382
<i>Mateo Silva ; K. Kalinin ; J. D. Töpfer ; P. Cilibizzi ; A. Askitopoulos ; W. Langbein ; N. G. Berloff ; P. G. Lagoudakis</i>	
<b>CORRELATED PHOTONS FROM MICROCAVITY POLARITON PARAMETRIC SCATTERING</b> .....	1383
<i>M. Sasser mann ; Z. Vörös ; G. Weihs ; W. Langbein</i>	
<b>HIGHLY NON-PARABOLIC STRAINED GE QUANTUM WELL FOR THZ ULTRA-STRONG LIGHT-MATTER COUPLING</b> .....	1384
<i>Janine Keller ; Giacomo Scalari ; Curdin Maissen ; Gian Lorenzo Paravicini-Bagliani ; Johannes Haase ; Michele Failla ; Maksym Myronov ; David R. Leadley ; James Lloyd-Hughes ; Jérôme Faist</i>	
<b>OPTICAL DETECTION OF WEAK ELECTRICAL SIGNALS WITH HYBRID OPTOELECTRO-MECHANICAL DEVICES</b> .....	1385
<i>Iman Moaddel Haghighi ; Nicola Malossi ; Riccardo Natali ; Giovanni Di Giuseppe ; David Vitali</i>	
<b>LOCALIZED ORBITAL ELECTRONIC STATES OF COLOUR CENTRES IN DIAMOND FOR STRONG AND FAST LIGHT-MATTER INTERACTIONS</b> .....	1386
<i>C. Weinzelt ; J. N. Becker ; J. Görlitz ; E. Poem ; J. Klatzow ; P. Ledingham ; D. J. Saunders ; I. A. Walmsley ; C. Becher ; J. Nunn</i>	
<b>SIDE EXCITATION OF POLARITONIC MOLECULES</b> .....	1387
<i>U. Czopak ; M. Sasser mann ; M. Prilmüller ; K. Winkler ; C. Schneider ; G. Weihs</i>	
<b>MAPPING NEAR-FIELD OF THE GUIDED SECOND-HARMONIC IN LITHIUM NIOBATE NANOWAVEGUIDES WITH PHOTOSENSITIVE POLYMER</b> .....	1388
<i>Anton Sergeev ; Marc Reig Escalé ; Kevin Floc'H ; Reinhard Geiss ; Rachel Grange</i>	
<b>HIGHLY-REGULAR LASER-INDUCED PERIODIC SURFACE STRUCTURES: EXPERIMENT AND ATOMISTIC MODELLING</b> .....	1389
<i>Iaroslav Gnilitkiy ; Maxim V. Shugaev ; Nadezhda M. Bulgakova ; Leonid V. Zhigilei ; Leonardo Orazi</i>	
<b>COLLECTIVE EFFECTS IN NANOLASERS: STEADY-STATE CHARACTERISTICS AND PHOTON STATISTICS</b> .....	1390
<i>E. C. André ; I. E. Protsenko ; J. Mark ; M. Wubs</i>	
<b>PLASMONICS WITH ATOMICALLY THIN MATERIALS</b> .....	1391
<i>F. Javier García De Abajo</i>	
<b>ULTRAFAST PHOTO-ACTIVATION OF INTERFACE POLARITONS IN BLACK PHOSPHORUS HETEROSTRUCTURES</b> .....	1392
<i>Fabian Mooshammer ; Markus A. Huber ; Markus Plankl ; Leonardo Viti ; Fabian Sandner ; Lukas Z. Kastner ; Tobias Frank ; Jaroslav Fabian ; Miriam S. Vitiello ; Tyler L. Cocker ; Rupert Huber</i>	
<b>HIGHLY ORDERED TRANSPARENT CONDUCTIVE OXIDE NANOPILLAR METAMATERIALS FOR MID-IR INFRARED PLASMONICS</b> .....	1393
<i>Evgeniy Shkondin ; Osamu Takayama ; Mohammad Esmail Aryaee Panah ; Pei Liu ; Pernille Voss Larsen ; Mikkel Dysseholm Mar ; Flemming Jensen ; Andrei V. Lavrinenko</i>	
<b>PLASMONIC PROPERTIES OF SUPERCONDUCTING NIOBIUM IN THE OPTICAL PART OF THE SPECTRUM</b> .....	1394
<i>C. Y. Liao ; H. N. S. Krishnamoorthy ; V. Savinov ; J. Y. Ou ; C. Huang ; G. Adamo ; E. Plum ; K. F. Macdonald ; Y. D. Chong ; O. L. Muskens ; C. Soci ; F. V. Kusmartsev ; D. P. Tsai ; N. I. Zheludev</i>	
<b>METAL OXIDE METASURFACES FOR ACTIVE CONTROL AND SPACE TECHNOLOGY</b> .....	1395
<i>Otto L. Muskens ; Kai Sun ; C H De Groot ; Luca Bergamini ; Nerea Zabala ; Javier Aizpurua ; Mirko Simeoni ; Alessandro Urbani ; Sandro Mengali</i>	
<b>ULTRALOW-LOSS CMOS COPPER PLASMONIC PLATFORM</b> .....	1396
<i>Dmitry Yu. Fedyanin ; Dmitry I. Yakubovsky ; Roman V. Kirtaev ; Valentyn S. Volkov</i>	
<b>ORGANIC MATERIALS INSTEAD OF METALS FOR PLASMONICS</b> .....	1397
<i>William L. Barnes</i>	
<b>MOLECULAR OPTOMECHANICAL APPROACH TO SURFACE-ENHANCED RAMAN SCATTERING IN PLASMONIC CAVITIES</b> .....	1398
<i>R. Esteban ; M. K. Schmidt ; T. Neuman ; A. González-Tudela ; G. Giedke ; J. Aizpurua</i>	

<b>HYDROGEN-REGULATED DYNAMIC PLASMONIC FANO RESONANCES .....</b>	<b>1399</b>
<i>Nils Galden ; Jianxiong Li ; Na Liu</i>	
<b>BI-ORTHOGONALITY ALLOWS OBSERVATION OF SELF-HYBRIDIZATION IN PLASMONIC SYSTEM.....</b>	<b>1400</b>
<i>H. Lourenço-Martins ; P. Das ; L. H. G. Tizei ; R. Weil ; M. Kociak</i>	
<b>MEASUREMENT OF NANOPLASMONIC FIELD ENHANCEMENT WITH ULTRAFAST PHOTOEMISSION .....</b>	<b>1401</b>
<i>Zsuzsanna Pápa ; Péter Rácz ; István Márton ; Judit Budai ; Piotr Wróbel ; Tomasz Stefaniuk ; Christine Prietl ; Joachim R. Krenn ; Péter Dombi</i>	
<b>SURFACE-PLASMON LASING IN HEXAGONAL HOLE ARRAYS.....</b>	<b>1402</b>
<i>V. T. Tenner ; M. J. A. De Dood ; M. P. Van Exter</i>	
<b>CAVITY-FREE LASERS THROUGH GRAPHENE-BASED RANDOM METAMATERIALS.....</b>	<b>1403</b>
<i>A. Marini ; F. J. García De Abajo</i>	
<b>LESS IS MORE: EXTREME OPTICS WITH ZERO REFRACTIVE INDEX.....</b>	<b>1404</b>
<i>Eric Mazur</i>	
<b>TOWARDS AN EFFICIENT EPSILON NEAR-ZERO-BASED WAVEFRONT SHAPER.....</b>	<b>1405</b>
<i>Gauthier Briere ; Benoît Cluzel ; Olivier Demichel</i>	
<b>BOUND STATES IN THE CONTINUUM IN ANISOTROPIC STRUCTURES .....</b>	<b>1406</b>
<i>Jordi Gomis-Bresco ; David Artigas ; Pilar Pujol-Closa ; Lluís Torner</i>	
<b>EXCEPTIONAL MODE ORGANIZATION IN A RESONATOR MICROCAVITY BASED ON A HYPERBOLIC METAMATERIAL .....</b>	<b>1407</b>
<i>Evgenij Travkin ; Sascha Kalusniak ; Sergey Sadofev ; Oliver Benson</i>	
<b>HYPERBOLIC CAVITIES AS TUNABLE PLATFORM FOR SPONTANEOUS EMISSION ENHANCEMENT OF DYE MOLECULES .....</b>	<b>1408</b>
<i>Katja Höflich ; M. Götz ; R. Kieschke ; J. Werra ; K. Busch</i>	
<b>ELECTRICALLY TUNABLE GAP-LOADED PLASMONIC NANOSTRUCTURES.....</b>	<b>1409</b>
<i>Christoph A. Riedel ; Kai Sun ; Otto L. Muskens ; C H De Groot</i>	
<b>ACTIVE MODULATION OF VISIBLE LIGHT WITH GRAPHENE-LOADED ULTRATHIN METAL PLASMONIC ANTENNAS.....</b>	<b>1410</b>
<i>Renwen Yu ; Valerio Pruneri ; F. Javier García De Abajo</i>	
<b>OPTICAL BISTABILITY IN OPTOMECHANICAL METAMATERIAL AT SUB-MILLIWATT POWER LEVELS .....</b>	<b>1411</b>
<i>Jun-Yu Ou ; Artemios Karvounis ; Kevin F. Macdonald ; Nikolay I. Zheludev</i>	
<b>IMPLEMENTATION OF A PN JUNCTION RECTIFYING DIODE IN A METASURFACE FOR EFFICIENT ELECTROMAGNETIC ENERGY HARVESTING.....</b>	<b>1412</b>
<i>G. T. Oumbé Tékam ; V. Ginis ; J. Danckaert ; P. Tassin</i>	
<b>FROM PLANAR TO CONFORMABLE OPTICS WITH METASURFACES .....</b>	<b>1413</b>
<i>Patrice Genevet</i>	
<b>SILICON HUYGENS' METASURFACES AT OBLIQUE INCIDENCE .....</b>	<b>1414</b>
<i>D. Arslan ; K. E. Chong ; D. N. Neshev ; T. Pertsch ; Y. S. Kivshar ; I. Staude</i>	
<b>OPTICAL IMAGE ENCRYPTION WITH AN ULTRATHIN NONLINEAR METASURFACE.....</b>	<b>1415</b>
<i>Felicitas Walter ; Guixin Li ; Cedrik Meier ; Shuang Zhang ; Thomas Zentgraf</i>	
<b>INTRA-CAVITY SPIN CONTROLLED GEOMETRIC PHASE METASURFACE.....</b>	<b>1416</b>
<i>Ronen Chriki ; Elhanan Maguid ; Chene Tradonsky ; Vladimir Kleiner ; Asher A. Friesem ; Nir Davidson ; Erez Hasman</i>	
<b>REVISITING QUANTUM OPTICS WITH SURFACE PLASMONS.....</b>	<b>1417</b>
<i>Benjamin Vest ; Marie-Christine Dheur ; Ilan Shlesinger ; Eloïse Devaux ; Alexandre Baron ; Jean-Jacques Greffet ; Gaétan Messin ; François Marquier</i>	
<b>COHERENT ABSORPTION OF TWO-PHOTON STATES IN METAMATERIALS.....</b>	<b>1418</b>
<i>Thomas Roger ; Ashley Lyons ; Dikla Oren ; Vassili Savinov ; Joao Valente ; Stefano Vezzoli ; Mordechai Segev ; Nikolay I. Zheludev ; Daniele Faccio</i>	
<b>QUANTUM POLARIZATION TOMOGRAPHY WITH ALL-DIELECTRIC METASURFACES .....</b>	<b>1419</b>
<i>Kai Wang ; Sergey S. Kruk ; Lei Xu ; Matthew Parry ; Hung-Pin Chung ; Alexander S. Solntsev ; James Titchener ; Ivan Kravchenko ; Yen-Hung Chen ; Yuri S. Kivshar ; Dragomir N. Neshev ; Andrey A. Sukhorukov</i>	
<b>EMBEDDED PLASMONIC NANOANTENNAS FOR ENHANCED DIAMOND NV-SPIN READOUT.....</b>	<b>1420</b>
<i>Matthew E. Trusheim ; Reyu Sakakibara ; Amir Karamlou ; Dirk Englund</i>	
<b>OBSERVATION OF PLASMONIC BREATHERS PROPAGATION IN A TWO-LEVEL SYSTEM.....</b>	<b>1421</b>
<i>Itai Epstein ; Haim Suchowski ; Dror Weisman ; Ady Arie</i>	
<b>SECOND HARMONIC GENERATION IN PLASMONIC NANOSTRUCTURES: A DOUBLE DIPOLAR RESONANT ANTENNA DESIGN .....</b>	<b>1422</b>
<i>Gabriel D. Bernasconi ; Jérémy Butet ; Valentin Flauraud ; Duncan T. L. Alexander ; Jürgen Brugger ; Olivier J. F. Martin</i>	
<b>MIE RESONANCE INDUCED ENHANCEMENT OF SECOND-HARMONIC GENERATION IN PEROVSKITE NANOPARTICLES .....</b>	<b>1423</b>
<i>Flavia Timpu ; Anton Sergeev ; Nicholas R. Hendricks ; Rachel Grange</i>	
<b>SECOND HARMONIC GENERATION FROM METALLIC NANOPARTICLES IN A RANDOM MEDIUM .....</b>	<b>1424</b>
<i>Anthony Maurice ; Naima Khebacche ; Isabelle Russier-Antoine ; Christian Jonin ; Sergey E. Skipetrov ; Pierre-François Brevet</i>	
<b>EXPERIMENTAL VERIFICATION OF THE INTRINSIC ULTRAFAST DELAYED NONLINEARITY OF GOLD.....</b>	<b>1425</b>
<i>Morten Bache ; Oleg Lysenko ; Nicolas Olivier ; Anatoly V. Zayats ; Andrei Lavrinenko</i>	
<b>ULTIMATE PERFORMANCE OF KERR NONLINEAR PLASMONICS WAVEGUIDES.....</b>	<b>1426</b>
<i>Stefano Palomba ; Guangyuan Clark Li ; C. Martijn De Sterke</i>	

<b>ULTRAFAST SECOND-HARMONIC GENERATIONS IN A PLASMONIC TWO-WIRE TRANSMISSION-LINE</b> .....	1427
<i>Hao-Yun Liu ; Tzu-Yu Chen ; Fan-Cheng Lin ; Jer-Shing Huang ; Chen-Bin Huang</i>	
<b>POLARIZATION DEPENDENCE OF SECOND-HARMONIC GENERATION IN GAAS METASURFACES</b> .....	1428
<i>Franz J. F. Löchner ; Anna Fedotova ; Sheng Liu ; Sina Saravi ; Thomas Pertsch ; Igal Brener ; Frank Setzpfandt ; Isabelle Staude</i>	
<b>GERMANIUM NANOANTENNAS FOR PLASMON-ENHANCED THIRD HARMONIC GENERATION IN THE MID INFRARED</b> .....	1429
<i>Marco P. Fischer ; Aaron Riede ; Alexander Grupp ; Kevin Gallacher ; Jacopo Frigerio ; Giovanni Pellegrini ; Michele Ortolani ; Douglas J. Paul ; Giovanni Isella ; Alfred Leitenstorfer ; Paolo Biagioni ; Daniele Brida</i>	
<b>MID-INFRARED PLASMONIC NANOANTENNAS FOR PROTEIN STRUCTURE DETECTION</b> .....	1430
<i>Dordaneh Etezadi ; John B. Warner ; Francesco S. Ruggeri ; Giovanni Dietler ; Hilal A. Lashuel ; Hatice Altug</i>	
<b>THZ SURFACE PLASMON POLARITON MODES COUPLED TO COMPLEMENTARY METASURFACES TUNED BY INTER-META-ATOM DISTANCE</b> .....	1431
<i>Janine Keller ; Curdin Maissen ; Johannes Haase ; Gian Lorenzo Paravicini-Bagliani ; Federico Valmorra ; José Palomo ; Juliette Mangenev ; Jérôme Tignon ; Sukhdeep S. Dhillon ; Giacomo Scalari ; Jérôme Faist</i>	
<b>STIMULATED BRILLOUIN SCATTERING IN PLASMONIC WAVEGUIDES: TRADE-OFFS AND PROSPECTS</b> .....	1432
<i>Christopher G. Poulton ; Sayyed R. Mirzaziry ; Christian Wolff</i>	
<b>SOLAR-VAPOR GENERATION WITH 69% ENERGY CONVERSION EFFICIENCY IN HOLLOW-MESOPOROUS PLASMONIC NANOSHELLS</b> .....	1433
<i>Ye Pu ; Marcin S. Zielinski ; Jae-Woo Choi ; Thomas La Grange ; Miguel Modestino ; Seyyed Mohammad Hosseini Hashemi ; Susanne Birkhold ; Jeffrey A. Hubbell ; Demetri Psaltis</i>	
<b>PLANAR YAGI-UDA ANTENNAS FOR HIGHLY EFFICIENT LIGHT EXTRACTION AND DIRECTIONAL LIGHT EMISSION</b> .....	1434
<i>Hossam Galal ; Simona Ckeccucci ; Pietro Lombardi ; Sarish Rizvi ; Fabrizio Sgrignuoli ; Nico Gruhler ; Frederik B. C. Dieleman ; Francesco S. Cataliotti ; Wolfram H. P. Pernice ; Costanza Toninelli ; Mario Agio</i>	
<b>FROM 1-DIMENSIONAL TO 2-DIMENSIONAL PERIODIC SEMICONDUCTOR PLASMONIC RESONATORS: DESIGNING THE OPTICAL RESPONSE FOR SENSING APPLICATIONS</b> .....	1435
<i>F. B. Barho ; F. Gonzalez-Posada ; M. J. Milla ; M. Bomers ; L. Cerutti ; E. Tournié ; T. Taliercio</i>	
<b>NANOPARTICLE-BASED METASURFACES FOR ANGULAR-INDEPENDENT SPECTRAL FILTERING APPLICATIONS</b> .....	1436
<i>F. Lotti ; A. Mirzaei ; P. Wang ; A. E. Miroshnichenko ; A. V. Zayats</i>	
<b>CONTROLLING FIELD ENHANCEMENT WITH PLASMONIC NANOCONE METAMATERIALS</b> .....	1437
<i>R. Margoth Cordova-Castro ; Mazhar E. Nasir ; Alexey V. Krasavin ; Wayne Dickson ; Anatoly V. Zayats</i>	
<b>INTERACTION PHENOMENA IN A CONFINED METAMATERIAL SYSTEM</b> .....	1438
<i>Moritz Wenclawiak ; Karl Unterrainer ; Juraj Darmo</i>	
<b>20-FOLD ADDITIONAL INCREASES IN LSP-ENHANCED SHG OF AU NANOPARTICLES WITH NLO POLYMERS</b> .....	1439
<i>Atsushi Sugita ; Tatsuya Matsui ; Atsushi Ono ; Yoshimasa Kawata</i>	
<b>EXTREMELY ENHANCED FIGURE OF MERIT IN NONLINEAR PLASMONIC WAVEGUIDES IN THE C-BAND USING METAMATERIALS AND A NONLINEAR ACTIVE MEDIUM</b> .....	1440
<i>Mahmoud M. R. Elsayy ; Gilles Renversez</i>	
<b>SPLIT-RING RESONATORS HYPERLENS FOR UNDISTORTED SUB-WAVELENGTH IMAGING</b> .....	1441
<i>Alessio Stefani ; Juliano Grigoletto Hayashi ; Simon Fleming ; Alexander Argyro ; Boris T. Kuhlmeier</i>	
<b>PLASMONIC DISK PATCH RESONATORS COUPLED TO SEMICONDUCTOR HETEROSTRUCTURES IN THE TERAHERTZ REGIME</b> .....	1442
<i>Christian G. Dernl ; Dominic Fachmann ; Karl Unterrainer ; Juraj Darmo</i>	
<b>GRAPHENE-BASED PLASMONIC BIOSENSING</b> .....	1443
<i>Philip A. Thomas ; F. Wu ; V. G. Kravets ; O. Ivasenko ; P. J. Day ; A. N. Grigorenko</i>	
<b>PLASMONICALLY ENHANCED BLUE OLED SUBJECT TO EXCIPLEX EMISSION</b> .....	1444
<i>S. Khadir ; A. T. Diallo ; M. Chakaroun ; A. Boudrioua</i>	
<b>UNPOLARIZED PHOTOLUMINESCENCE FROM D-BAND HOLES VERSUS POLARIZED SCATTERING OF SINGLE GOLD NANOSPONGES</b> .....	1445
<i>Cynthia Vidal ; Dmitry Sivun ; Johannes Ziegler ; Dong Wang ; Peter Schaaf ; Calin Hrelescu ; Thomas A. Klar</i>	
<b>PLASMONIC ENHANCEMENT OF ELECTRIC FIELD-INDUCED SECOND HARMONIC GENERATION IN TUNNELING GAPS</b> .....	1446
<i>Garikoitz Aguirregabiria ; D. Codruta Marinica ; Rubén Esteban ; Andrey Kazansky ; Andrei G. Borisov ; Javier Aizpurua</i>	
<b>NANOFOCUSING OF OPTICAL VORTEX IN PLASMONIC STRUCTURES</b> .....	1447
<i>Kyosuke Sakai ; Shotaro Sugawara ; Masaki Ide ; Keiji Sasaki</i>	
<b>STRONG COUPLING BETWEEN SURFACE PLASMON POLARITONS AND MOLECULAR VIBRATIONS</b> .....	1448
<i>Hala Memmi ; Oliver Benson ; Sergey Sadofev ; Sascha Kalusniak</i>	
<b>NOVEL QUANTUM LIGHT SOURCES IN LAYERED MATERIALS</b> .....	1449
<i>Mete Atatüre</i>	
<b>SINGLE-PHOTON EMITTERS IN GASE</b> .....	1450
<i>Philipp Tonndorf ; Stefan Schwarz ; Johannes Kern ; Iris Niehues ; Osvaldo Del Pozo-Zamudio ; Alexander I. Dmitriev ; Anatoly P. Bakhtinov ; Dmitry N. Borisenko ; Nikolai N. Kolesnikov ; Alexander I. Tartakovskii ; Steffen Michaelis De Vasconcelos ; Rudolf Bratschitsch</i>	
<b>ULTRA CONFINED POLARITONS IN ATOMICALLY LAYERED DIELECTRICS</b> .....	1451
<i>Alexander M. Dubrovkin ; Bo Qiang ; Harish N. S. Krishnamoorthy ; Nikolay I. Zheludev ; Qi Jie Wang</i>	

<b>TAMM-PLASMON EXCITON-POLARITONS WITH ATOMIC MONOLAYERS</b> .....	1452
<i>Nils Lundt ; Sebastian Stoll ; Sebastian Klemmt ; Evgeniia Cherotchenko ; Oliver Iff ; Matthias Wurdack ; Anton V. Nalitov ; Simon Betzold ; Alexey V. Kavokin ; Sven Höfiling ; Christian Schneider</i>	
<b>PHOTOINDUCED TERAHERTZ DYNAMICS IN <math>\text{Bi}_2\text{Se}_3</math> TOPOLOGICAL INSULATOR</b> .....	1453
<i>F. Giorgianni ; M. Shalaby ; C. Vicario ; C. P. Hauri ; S. Lupi</i>	
<b>ELECTRICAL DETECTION OF SINGLE GRAPHENE PLASMONS</b> .....	1454
<i>Renwen Yu ; F. Javier García De Abajo</i>	
<b>PHOTO-ACOUSTIC CONVERTER FOR THZ DETECTION BASED ON 3-DIMENSIONAL GRAPHENE</b> .....	1455
<i>M. Shalaby ; C. Vicario ; F. Giorgianni ; S. Lupi ; C. P. Hauri</i>	
<b>ACTIVE GRAPHENE-MICROFIBER MODULATOR</b> .....	1456
<i>D. Popa ; Z. Zhao ; U. Sassi ; Z. Yang ; Y. Xu ; L. Tong ; A. C. Ferrari</i>	
<b>NON-EQUILIBRIUM OPTICAL PROPERTIES OF ENCAPSULATED GRAPHENE</b> .....	1457
<i>Eva A. A. Pogna ; C. Trovatiello ; K. J. Tielrooij ; N. C. H. Hesp ; A. Principi ; M. Lundberg ; L. Banszerus ; M. Massicotte ; P. Schmidt ; D. Davydovskaya ; C. Stampfer ; M. Polini ; F. H. L. Koppens ; G. Cerullo</i>	
<b>ENHANCED HOT LUMINESCENCE AT VAN HOVE SINGULARITIES IN TWISTED BILAYER GRAPHENE</b> .....	1458
<i>Thonimar V. Alencar ; Driele Von Dreifus ; Eliel S. N. Gomes ; Po-Wen Chiu ; Marcos A. Pimenta ; Ana Maria De Paula</i>	
<b>PHOTOPHYSICAL PROPERTIES OF SEMICONDUCTING ARMCHAIR-EDGE GRAPHENE NANORIBBONS</b> .....	1459
<i>Seyed Khalil Alavi ; Markus Pfeiffer ; Boris Senkovskiy ; Andrea Bliesener ; Jingyi Zhu ; Samuel Michel ; Alexei V. Fedoro ; Raphael German ; Dirk Hertel ; Danny Haberer ; Luca Petaccia ; Felix R. Fischer ; Klaus Meerholz ; Paul Van Loosdrecht ; Alexander Grüneis ; Klas Lindfors</i>	
<b>OPTICAL SPECTROSCOPY OF VALLEY DYNAMICS AND INTERLAYER EXCITONS IN TRANSITION-METAL DICHALCOGENIDE MONOLAYERS AND HETEROSTRUCTURES</b> .....	1460
<i>Gerd Plechinger ; Philipp Nagler ; Fabian Mooshammer ; Ashish Arora ; Robert Schmidt ; Alexey Chernikov ; John Lupton ; Rudolf Bratschitsch ; Christian Schüller ; Tobias Korn</i>	
<b>TRION VALLEY DYNAMICS IN MONOLAYER <math>\text{WSe}_2</math></b> .....	1461
<i>Akshay Singh ; Kha Tran ; Joe Seifert ; Yiping Wang ; Kai Hao ; Xiaoqin Li ; Dennis Pleskot ; Nathaniel M. Gabor ; Nina Owschimikow ; Sophia Helmrich ; Mirco Kolarczik ; Ulrike Woggon</i>	
<b>TRACKING EXCITON-TRION INTERPLAY IN THE TRANSIENT OPTICAL PROPERTIES OF <math>\text{WS}_2</math> INKS</b> .....	1462
<i>Eva A. A. Pogna ; Christoph Gadermaier ; Antonio E. Del Rio Castillo ; Giulio Cerullo ; Francesco Bonaccorso</i>	
<b>ROTATION OF POLARIZED LIGHT EMISSION FROM MONOLAYER <math>\text{WS}_2</math> INDUCED BY HIGH MAGNETIC FIELDS</b> .....	1463
<i>Robert Schmidt ; Ashish Arora ; Gerd Plechinger ; Philipp Nagler ; Andrés Granados Del Aguila ; Mariana V. Ballottin ; Peter C. M. Christianen ; Steffen Michaelis De Vasconcellos ; Christian Schüller ; Tobias Korn ; Rudolf Bratschitsch</i>	
<b>INTERSUBBAND TRANSITIONS IN TRANSITION METAL DICHALCOGENIDES (TMDS)</b> .....	1464
<i>Peter Schmidt ; Fabien Violla ; Mathieu Massicotte ; Mark Lundberg ; Frank Koppens</i>	
<b>CONTACT MORPHOLOGIES FOR ULTRAFAST OPTOELECTRONICS IN 2D MATERIALS</b> .....	1465
<i>Eric Parzinger ; Ursula Wurstbauer ; Alexander Holleimer</i>	
<b>GATE TUNEABLE ULTRAFAST CHARGE TRANSFER IN GRAPHENE/<math>\text{MOS}_2</math> HETEROSTRUCTURES</b> .....	1466
<i>G. Soavi ; D. De Fazio ; S. R. Tamalampudi ; D. Yoon ; E. Mostaani ; A. R. Botello ; S. Dal Conte ; G. Cerullo ; I. Goykhman ; A. C. Ferrari</i>	
<b>TIME-RESOLVED STARK SPECTROSCOPY IN CDSE NANOPATELETS: A ROUTE TO FIELD CONTROLLED EMITTERS</b> .....	1467
<i>Alexander W. Achstein ; Riccardo Scott ; Anatol Prudnikau ; Artsiom Antanovich ; Mikhail Artemyev ; Ulrike Woggon</i>	
<b>LARGE-AREA GROWN <math>\text{MOS}_2</math> AND ITS INTEGRATION IN GEOMETRICALLY TUNABLE PHOTONIC CRYSTAL CAVITIES</b> .....	1468
<i>S. Hammer ; H. M. Mangold ; D. Martinez-Ta ; A. E. Nguyen ; L. Bartels ; H. J. Krenner</i>	
<b>EMISSION ENHANCEMENT FROM <math>\text{MOS}_2</math> MONOLAYERS WITH SILICON NANOANTENNAS</b> .....	1469
<i>Tobias Bucher ; Aleksandr Vaskin ; Antony George ; Katie E. Chong ; Stefan Fasold ; Duk-Yong Choi ; Falk Eilenberger ; Yuri S. Kivshar ; Thomas Pertsch ; Andrey Turchanin ; Isabelle Staude</i>	
<b>PHONON ANOMALIES IN GRAPHENE INDUCED BY HIGHLY EXCITED CHARGE CARRIERS</b> .....	1470
<i>C. Ferrante ; A. Virsa ; Domenico De Fazio ; U. Sassi ; A. K. Ott ; D. Yoon ; L. Benfatto ; G. Cerullo ; F. Mauri ; A. C. Ferrari ; T. Scopigno</i>	
<b>DETERMINISTIC POSITIONING OF SINGLE-PHOTON EMITTERS IN MONOLAYER <math>\text{WSe}_2</math> ON THE NANOSCALE</b> .....	1471
<i>Johannes Kern ; Iris Niehues ; Philipp Tonndorf ; Robert Schmidt ; Daniel Wigger ; Robert Schneider ; Torsten Stiehm ; Steffen Michaelis De Vasconcellos ; Doris E. Reiter ; Tilmann Kuhn ; Rudolf Bratschitsch</i>	
<b>ULTRAFAST SPIN/VALLEY DECAY PROCESSES IN MONOLAYER <math>\text{WS}_2</math></b> .....	1472
<i>Z. Wang ; S. Dal Conte ; P. Altmann ; E. A. A. Pogna ; D. De Fazio ; G. Soavi ; U. Sassi ; I. Goykhman ; A. C. Ferrari ; G. Cerullo</i>	
<b>APPROACHES FOR ENHANCING PLASMON PROPAGATION IN GRAPHENE WAVEGUIDES</b> .....	1473
<i>Mario Miscuglio ; Davide Spirito ; Remo Proietti Zaccaria ; Roman Krahn</i>	
<b>ULTRASHORT PULSE GENERATION IN 2.1 <math>\mu\text{m}</math> SPECTRAL RANGE USING BLACK PHOSPHORUS BASED SATURABLE ABSORBER</b> .....	1474
<i>Maria Pawliszewska ; Zhongjun Li ; Han Zhang ; Jaroslaw Sotor</i>	
<b>SN-DOPED <math>\text{Bi}_2\text{Te}_2\text{Se}</math> AS A BROADBAND SATURABLE ABSORBER FOR Q-SWITCHED FIBER LASERS</b> .....	1475
<i>Jakub Bogustawski ; Maciej Kowalczyk ; Przemyslaw Iwanowski ; Andrzej Hruban ; Ryszard Diduszko ; Kazimierz Piotrowski ; Krzysztof Dybko ; Krzysztof M. Abramski ; Jaroslaw Sotor</i>	
<b>OPTICAL CHARACTERIZATION OF ANISOTROPIC <math>\text{MOS}_2</math> NANOSHEETS</b> .....	1476
<i>Andrea Camellini ; Eugenio Cinquanta ; Christian Martella ; Carlo Mennucci ; Alessio Lamperti ; Giulio Cerullo ; Giuseppe Della Valle ; Alessandro Molle ; Francesco Buatier De Mongeot ; Margherita Zavelani-Rossi</i>	

<b>GRAPHENE SYNCHRONISED ALL-FIBER LASER FOR COHERENT RAMAN SPECTROSCOPY</b> .....	1477
<i>D. Popa ; D. Viola ; G. Soavi ; B. Fu ; L. Lombardi ; S. Hodge ; D. Polli ; T. Scopigno ; G. Cerullo ; A. C. Ferrari</i>	
<b>NONPERTURBATIVE THEORY OF GRAPHENE SATURABLE ABSORPTION</b> .....	1478
<i>A. Marini ; J. D. Cox ; F. J. García De Abajo</i>	
<b>MOS<sub>2</sub> COATED SIDE POLISHED FIBERS FOR NONLINEAR OPTICS</b> .....	1479
<i>H. Zhang ; N. Healy ; A. F. J. Runge ; C. C. Huang ; D. W. Hewak ; A. C. Peacock</i>	
<b>SPATIAL NONUNIFORMITY OF EXCITONIC PROPERTIES IN EXFOLIATED WS<sub>2</sub> MONOLAYERS</b> .....	1480
<i>I. Paradisanos ; S. Germanis ; N. Pliatsikas ; N. T. Pelekanos ; P. Patsalas ; C. Fotakis ; E. Kymakis ; G. Kioseoglou ; E. Stratakis</i>	
<b>RIGOROUS MODAL ANALYSIS OF OPTICAL RESONATORS</b> .....	1481
<i>Wei Yan ; Rémi Foggiani ; Philippe Lalanne</i>	
<b>MODELLING OPEN NANOPHOTONIC STRUCTURES USING THE FOURIER MODAL METHOD IN INFINITE DOMAINS</b> .....	1482
<i>Andreas D. Osterkryger ; Teppo Hayrynen ; Jakob R. De Lasson ; Niels Gregersen</i>	
<b>AN ITERATIVE METHOD FOR THE DYNAMIC MODELING OF ULTRA-SHORT PULSE GENERATION IN NONLINEAR OPTICAL RING RESONATOR</b> .....	1483
<i>Napoléon Gutierrez ; Arnaud Fernandez ; Olivier Llopis ; Sai Tak Chu ; Stéphane Balac</i>	
<b>SUITABILITY OF THE UNIDIRECTIONAL APPROACH FOR DESCRIBING LASER-DRIVEN TERAHERTZ EMISSION</b> .....	1484
<i>J. Déchard ; P. González De Alaiza Martínez ; A. Nguyen ; L. Thiele ; S. Skupin ; L. Bergé</i>	
<b>WEBGL-FDTD — HARDWARE-ACCELERATED INTERACTIVE ELECTROMAGNETIC SOLVER TOOL FOR THE WEB-BROWSER</b> .....	1485
<i>Timothy D. Drysdale</i>	
<b>CLEO®/EUROPE-EQEC 2017 SHOCK WAVES' SQUEEZING</b> .....	1486
<i>Maria Chiara Braidotti ; Antonio Mecozzi ; Claudio Conti</i>	
<b>FERMI-PASTA-ULAM RECURRENCES OF INCOHERENT WAVES</b> .....	1487
<i>M. Guasoni ; J. Garnier ; B. Rumpf ; D. Sugny ; G. Xu ; J. Fatome ; G. Millot ; A. Picozzi</i>	
<b>WAVEGUIDING BASED UPON GEOMETRIC PHASE</b> .....	1488
<i>Alessandro Alberucci ; Chandroth P. Jisha ; Lorenzo Marrucci ; Gaetano Assanto</i>	
<b>EXTENDING TRANSFORMATION OPTICS BEYOND 3D GEOMETRIES</b> .....	1489
<i>Sophie Viaene ; Lieve Lambrechts ; Vincent Ginis ; Philippe Tassin</i>	
<b>MULTI-PLANE LIGHT CONVERSION WITH LOW PLANE COUNT</b> .....	1490
<i>Joel Carpenter ; Nicolas K. Fontaine</i>	
<b>RESIDUAL ELECTRON CURRENTS VIA FLOQUET RESONANCES IN ATOMIC MULTIPHOTON IONIZATION</b> .....	1491
<i>I. Babushkin ; M. Hofmann ; C. Bree</i>	
<b>NON-HERMITIAN FOCUSING DEEP INSIDE STRONGLY DISORDERED SCATTERING MEDIA</b> .....	1492
<i>A. Brandstötter ; K. G. Makris ; S. Rotter</i>	
<b>SOLVING THE MAXWELL-BLOCH EQUATIONS EFFICIENTLY ON PARALLEL ARCHITECTURES</b> .....	1493
<i>Michael Riesch ; Nikola Tchipev ; Hans-Joachim Bungartz ; Christian Jirauschek</i>	
<b>THREE-DIMENSIONAL CRYSTAL OF CAVITIES IN A 3D PHOTONIC BAND GAP CRYSTAL</b> .....	1494
<i>Sjoerd A. Hack ; Jaap J. W. Van Der Vegt ; Willem L. Vos</i>	
<b>EFFICIENT MODELING OF EXCITONS IN TYPE-II NANOWIRE QUANTUM DOTS</b> .....	1495
<i>Masoomeh Taherkhani ; Niels Gregersen ; Jesper Mork ; Morten Willatzen</i>	
<b>UNSTABLE RESONATORS WITH GOSPER-ISLAND BOUNDARY CONDITIONS: VIRTUAL-SOURCE COMPUTATION OF FRACTAL EIGENMODES</b> .....	1496
<i>J. M. Christian ; J. G. Huang</i>	
<b>GPU-ACCELERATED MIXED-PRECISION SIMULATION OF THE NONLINEAR SIGNAL PROPAGATION IN MULTIMODE FIBERS</b> .....	1497
<i>Marius Brehler ; Peter M. Krummrich</i>	
<b>THE MAINTAINING OF THE EXCITON STATE IN THE TWO-QD SYSTEM WITH DIPOLE-DIPOLE INTERACTION AND THE INTRINSIC ELECTRON-HOLE EXCHANGE INTERACTION</b> .....	1498
<i>Shiang-Yu Huang ; Guang-Yin Chen ; Yueg-Nan Chen ; Shun-Jen Cheng</i>	
<b>SHEDDING NEW LIGHT ON PATHOPHYSIOLOGY WITH MULTI-SPECTRAL OPTOACOUSTIC TOMOGRAPHY</b> .....	1499
<i>Vasilis Ntziachristos</i>	
<b>OPTIMIZING THE FLUORESCENT SIGNAL FOR IN-VIVO NONLINEAR IMAGING IN A COMPLETELY ALL-FIBERED YTTERBIUM CHIRPED PULSE AMPLIFIER</b> .....	1500
<i>A. Fernández ; M. Andreana ; L. Grüner-Nielsen ; T. Andersen ; M. Distel ; L. Zhu ; A. Baltuska ; R. Leitgeb ; K. Jespersen ; A. J. Verhoef</i>	
<b>HUMAN JOINT TISSUE IDENTIFICATION BY EMPLOYING DIFFUSE REFLECTANCE AND AUTO-FLUORESCENCE SPECTROSCOPY, IN COMBINATION WITH MACHINE LEARNING</b> .....	1501
<i>Rajitha Gunaratne ; Isaac Monteath ; Raymond Sheh ; Charles N. Ironside ; Michael Kapfer ; Brett Robertson ; Riaz Khan ; Daniel Fick</i>	
<b>BENDABLE, STRETCHABLE AND PRINTABLE POLYMER OPTICS</b> .....	1502
<i>Hans Zappe</i>	
<b>INTEGRATED PLANAR-OPTICAL NETWORKS IN THIN POLYMER FOILS — A NEW APPROACH TO LARGE-AREA DISTRIBUTED SENSING</b> .....	1503
<i>Bernhard Roth</i>	

<b>NANOWIRE-BASED HYBRID OPTICAL FIBERS: A PLATFORM FOR NONLINEAR LIGHT GENERATION AND PLASMONICS</b> .....	1504
<i>Markus A. Schmidt</i>	
<b>DIRECT LASER WRITING IN BIO-INSPIRED PHOTONICS</b> .....	1505
<i>Min Gu</i>	
<b>MANUFACTURING OF FUNCTIONAL POLYMER MICRO- AND NANO-STRUCTURES BY FEMTOSECOND LASER PULSE</b> .....	1506
<i>Feng Chen ; Qing Yang ; Hao Bian ; Jiale Yong ; Guangqing Du</i>	
<b>3D PRINTING OF POLYMER OPTICS</b> .....	1507
<i>Michael Thiel ; Yann Tanguy ; Nicole Lindenmann ; Fabian Niesler ; Mareike Schmittens ; Alexander Quick</i>	
<b>DISCONTINUOUS-GALERKIN METHODS FOR THE ACCURATE MODELLING OF PHOTONIC SYSTEMS</b> .....	1508
<i>Kurt Busch</i>	
<b>COMPARISON OF FIVE NUMERICAL METHODS FOR COMPUTING QUALITY FACTORS AND RESONANCE WAVELENGTHS IN PHOTONIC CRYSTAL MEMBRANE CAVITIES</b> .....	1509
<i>Niels Gregersen ; Jakob Rosenkrantz De Lasson ; Lars Hagedorn Frandsen ; Oleksiy S. Kim ; Olav Breinbjerg ; Fengwen Wang ; Ole Sigmund ; Aliaksandra Ivinskaya ; Andrei Lavrinenko ; Philipp Gutsche ; Sven Burger ; Teppo Häyrynen ; Jesper Merk</i>	
<b>EMERGENCE OF LONG-RANGE PHASE COHERENCE IN NONLOCAL NONLINEAR MEDIA</b> .....	1510
<i>A. Fusaro ; J. Garnier ; G. Xu ; D. Faccio ; C. Conti ; S. Trillo ; A. Picozzi</i>	
<b>DO PHOTONS PUSH OR PULL A BOUNDARY?</b> .....	1511
<i>Shubo Wang ; C. T. Chan</i>	
<b>IF IT QUACKS LIKE A LASER AND SWIMS LIKE A LASER... THE PHYSICS OF FREE-ELECTRON LASERS</b> .....	1512
<i>Agostino Marinelli</i>	
<b>ULTRAFAST IMAGING OF TRANSIENT STATES AND NON-EQUILIBRIUM DYNAMICS IN CLUSTERS WITH X-RAY LASER BASED PUMP-PROBE TECHNIQUES</b> .....	1513
<i>Maximilian Bucher ; Phay Ho ; Ken R. Ferguson ; Tais Gorkhover ; Agostino Marinelli ; Daniela Rupp ; O. Gessner ; A. Vilesov ; D. Rolles ; Artem Rudenko ; Kionobu Nagaya ; Yoshiaki Kumagai ; Kiyoshi Ueda ; Linda Young ; Thomas Möller ; Christoph Bostedt</i>	
<b>THEORETICAL APPROACHES FOR TIME-RESOLVED INNER-SHELL PHYSICS AND COHERENT CONTROL</b> .....	1514
<i>Antonio Picón</i>	
<b>PROBING MOLECULAR PHOTOINDUCED DYNAMICS BY ULTRAFAST SOFT X-RAYS</b> .....	1515
<i>T. J. A. Wolf ; R. H. Myhre ; J. P. Cryan ; S. Coriani ; R. J. Squibb ; A. Battistoni ; N. Berrah ; C. Bostedt ; P. Bucksbaum ; G. Coslovich ; R. Feifel ; K. J. Gaffney ; J. Grilj ; T. J. Martinez ; S. Miyabe ; S. P. Moeller ; M. Mucke ; A. Natan ; R. Obaid ; T. Osipov ; O. Plekan ; S. Wang ; H. Koch ; M. Gühr</i>	
<b>X-RAY PHOTOFRAGMENTATION STUDY OF GAS-PHASE INDOLE AND INDOLE-WATER CLUSTER</b> .....	1516
<i>Thomas Kierspel ; Joss Wiese ; Michele Di Fraia ; Rebecca Boll ; Cédric Bomme ; Benjamin Erk ; Daniel Rolles ; Evgeny Savelyev ; Jens Viehhaus ; Sebastian Trippel ; Jochen Küpper</i>	
<b>COMPLETE PHOTOIONIZATION EXPERIMENT AND AUTOIONIZING STATES IN NE II</b> .....	1517
<i>Paolo A. Carpegiani ; Elena Gryzlova ; Maurizio Reduzzi ; Antoine Dubrouil ; Davide Facciala ; Matteo Negro ; Kyoshi Ueda ; Svetlana I. Strakhova ; Fabio Frassetto ; Frank Stienkemeier ; Yevheniy Ovcharenko ; Michael Meyer ; Oksana Plekan ; Paola Finetti ; Kevin Prince ; Carlo Callegari ; Alexei N. Grum-Grzhimailo ; Giuseppe Sansone</i>	
<b>4-WAVE-MIXING EXPERIMENTS IN THE XUV</b> .....	1518
<i>C. Masciovecchio</i>	
<b>A MIRRORLESS PHOTONIC FREE-ELECTRON LASER OSCILLATOR</b> .....	1519
<i>P. J. M. Van Der Slot ; A. Strooisma ; T. Denis ; K. -J. Boller</i>	
<b>TIME-RESOLVED TWO-COLOR X-RAY PUMP / X-RAY PROBE PHOTOELECTRON SPECTROSCOPY AT LCLS</b> .....	1520
<i>Andre Al Haddad ; Antonio Picon ; Maximilian Bucher ; Gilles Doumy ; Ryan Coffee ; Michael Holmes ; Jacek Krzywinski ; Alberto Lutman ; Agostino Marinelli ; Stefan Moeller ; Timur Osipov ; Stephen Pratt ; Dan Ratner ; Dipanwita Ray ; Peter Walter ; Linda Young ; Stephen Southworth ; Christoph Bostedt</i>	
<b>DESIGN OF COMPRESSORS FOR FEL PULSES USING CONCAVE DEFORMABLE GRATINGS</b> .....	1521
<i>L. Paletto ; S. Bonora ; N. Fabris ; F. Frassetto ; E. Giovine ; P. Miotti ; M. Quintavalla</i>	
<b>TEMPORAL CHARACTERIZATION ON FLASH FEL PULSES</b> .....	1522
<i>Rosen Ivanov ; Jia Liu ; Günter Brenner ; Starhei Dzierzhytski ; Stefan Düsterer</i>	
<b>COMPUTATIONAL TOMOGRAPHIC PHASE MICROSCOPY</b> .....	1523
<i>Pasquale Memmolo ; Francesco Merola ; Lisa Miccio ; Martina Mugnano ; Pietro Ferraro</i>	
<b>SUB-DIFFRACTION IMAGING OF PHASE SINGULARITIES IN A HIGH-NA SPECKLE OPTICAL FIELD</b> .....	1524
<i>Marco Pascucci ; Gilles Tessier ; Valentina Emiliani ; Marc Guillon</i>	
<b>MICROSPHERE EMBEDDED IN CANTILEVER OPENS THE AFM TO HIGH RESOLUTION OPTICAL MICROSCOPY</b> .....	1525
<i>Francesco Tantussi ; Martí Duocastella ; Ali Haddadapour ; Remo Proietti Zaccaria ; Andrea Jacassi ; Georgios Veronis ; Alberto Diaspro ; Francesco De Angelis</i>	
<b>ASSESSMENT OF THE ADVANTAGES OF LEARNING TOMOGRAPHY OVER CONVENTIONAL LINEAR OPTICAL TOMOGRAPHY</b> .....	1526
<i>Joonwon Lim ; Alexandre Goy ; Demetri Psaltis</i>	
<b>4D DIGITAL HOLOGRAPHIC MICROSCOPY</b> .....	1527
<i>Alexey Brodoline ; Daniel Alexandre ; Michel Gross</i>	

<b>PUSHING THE LIMITS OF OPTICAL NANOSCOPY: IMAGING WHOLE CELLS AT SUB-20-NM 3D RESOLUTION AND LIVING CELLS IN MULTIPLE COLORS.....</b>	1528
<i>Joerg Bewersdorf</i>	
<b>BIOMINING FOR MOTHER NATURE'S SUPERLENSES.....</b>	1529
<i>James N. Monks ; Bing Yan ; Nicholas Hawkins ; Fritz Vollrath ; Fabian Conradi ; Conrad Mullineaux ; Zengbo Wang</i>	
<b>THREE-DIMENSIONAL ANGSTROM RESOLUTION IN FLUORESCENCE MICROSCOPY: INSIGHT INTO PROTEIN STRUCTURE.....</b>	1530
<i>Daniel Boening ; Siegfried Weisenburger ; Benjamin Schomburg ; Karin Giller ; Stefan Becker ; Christian Griesinger ; Vahid Sandoghdar</i>	
<b>GIGANTIC WAVEVECTORS AND ENERGY BACKFLOW IN THE FOCUS OF A SUPER-OSCILLATORY LENS.....</b>	1531
<i>G. H. Yuan ; N. Zheludev</i>	
<b>RESOLVING T CELL — T CELL TRANSFER OF HIV-1 BY OPTICAL NANOSCOPY.....</b>	1532
<i>Alice Wilking ; Lili Wang ; Benjamin K. Chen ; Thomas Huser ; Wolfgang Hübner</i>	
<b>QUANTITATIVE NETWORKDENSITY DISTRIBUTION MEASUREMENTS ON SMART THERMORESPONSIVE COLLOIDS BY SUPER-RESOLUTION OPTICAL MICROSCOPY.....</b>	1533
<i>Stephan Bergmann ; Oliver Wrede ; Viola Mönkemöller ; Thomas Hellweg ; Thomas Huser</i>	
<b>TWO-PHOTON EXCITATION OF QUANTUM DOTS IN 3D VIA STACKED FRESNAL HOLOGRAM ALGORITHM.....</b>	1534
<i>Denizhan Koray Kesim ; Ghaith Makey ; Özgün Yavuz ; Onur Takel ; F. Ömer Ilday</i>	
<b>COMPRESSIVE HOLOSOPY FOR 3D HIGH RESOLUTION OPTICAL IMAGING ACQUISITION WITH A SINGLE PIXEL DETECTOR.....</b>	1535
<i>Luoyang Chen ; Haitao Liu ; Hongwen Zhou ; Meng Zhang</i>	
<b>INFRARED NEAR-FIELD SPECTROSCOPY WITH ATTOGRAM SENSITIVITY.....</b>	1536
<i>Andreas J. Huber</i>	
<b>TRANSPORT OF INTENSITY MICROSCOPY FOR DISTINGUISHING SINGLE AND BUNDLED MICROTUBULES.....</b>	1537
<i>Q. Tyrell Davis ; Tomoyuki Tanaka ; David McGloin</i>	
<b>RAMAN SPECTROSCOPY — NEW TOOLS FOR CLINICAL DIAGNOSIS AND THERAPY.....</b>	1538
<i>Jürgen Popp</i>	
<b>DUAL-MODE MULTIPHOTON AND LINEAR CONFOCAL MICROSCOPY OF THE LIVING HUMAN EYE.....</b>	1539
<i>Francisco J. Ávila ; Adrián Gambín-Regadera ; Pablo Artal ; Juan M. Bueno</i>	
<b>SECOND HARMONIC GENERATION MICROSCOPY AS A CANCER DIAGNOSIS TOOL.....</b>	1540
<i>Aloisio M. Garcia ; Felipe L. Magalhães ; Jaqueline S. Soares ; Eduardo Paulino ; Mário F. R. De Lima ; Marcelo Mamede ; Ana M. De Paula</i>	
<b>A MICRO-OPTO-ACOUSTO-FLUIDIC CHIP FOR SINGLE CELL MECHANICS EVALUATION.....</b>	1541
<i>T. Yang ; V. Vitali ; F. Bragheri ; G. Nava ; I. Chiodi ; C. Mondello ; R. Osellame ; K. Berg-Sorensen ; I. Cristiani ; P. Minzioni</i>	
<b>RAMAN IMAGING OF LARGE-AREA HUMAN TISSUE.....</b>	1542
<i>Benito Moralejo ; Elmar Schmälzlin ; Maxim E. Darvin ; Johannes Schleusener ; Gisela Thiede ; Martin M. Roth</i>	
<b>IMAGING FREE AND BOUND NADH TOWARDS CANCER TISSUE DETECTION USING FLIM SYSTEM BASED ON SPAD ARRAY.....</b>	1543
<i>Piotr M. Wargocki ; Samuel Burri ; Claudio Bruschini ; Ivan M. Antolovic ; Edoardo Charbon ; Ewa M. Goldys ; David. J. Spence</i>	
<b>HIGH-THROUGHPUT, IMAGING BASED MECHANICAL PHENOTYPING OF PROSTATE CANCER CELLS.....</b>	1544
<i>Yuri Belotti ; Tianjun Huang ; Stephen McKenna ; Ghulam Nabi ; David McGloin</i>	
<b>TOWARDS A MULTIMODAL DEVICE FOR CLINICAL IN-VIVO SKIN CANCER DEPTH MEASUREMENTS.....</b>	1545
<i>M. Rahlves ; M. Mazurenka ; A. Varkentin ; E. Blumenroether ; J. Stritzel ; U. Morgner ; M. Meinhardt-Wollweber ; S. Schäd-Trcka ; S. Emmert ; B. Roth</i>	
<b>NEW FLUORESCENT DRUG COMPLEX FOR OPTO-CHEMICAL THERAPY AGAINST BREAST CANCER.....</b>	1546
<i>Fernando Lahoz ; Laura E. Scholz ; Alicia Boto ; Mario Diaz</i>	
<b>WHOLE-SLIDE, LABEL-FREE CANCER SCREENING ON CLINICALLY RELEVANT TIMESCALES.....</b>	1547
<i>Jeremy Rowlette ; Edeline Fotheringham ; Ben Bird ; Bob Shine</i>	
<b>TOWARDS RAPID HIGH-RESOLUTION MID-IR IMAGING FOR MOLECULAR SPECTRAL HISTOPATHOLOGICAL DIAGNOSIS OF OESOPHAGEAL CANCERS.....</b>	1548
<i>M. Hermes ; J. Nallala ; L. Huot ; Ján Tomko ; S. Junaid ; P. Tidemand-Lichtenberg ; C. Pedersen ; N. Stone</i>	
<b>HIGH POWER LASER-DRIVEN PARTICLE ACCELERATION FOR RADIOTHERAPY.....</b>	1549
<i>J. Pawelke ; E. Beyreuther ; T. E. Cowan ; W. Enghardt ; M. Gotz ; T. Herrmannsdörfer ; L. Karsch ; S. Kraft ; M. Krause ; F. Kroll ; U. Masood ; R. Sauerbrey ; U. Schramm ; M. Schürer ; J. J. Wilkens ; K. Zeil</i>	
<b>LASER INTERACTIONS WITH MICRO-TARGETS FOR IMAGING APPLICATIONS.....</b>	1550
<i>T. M. Ostermayr ; C. Kreuzer ; F. Englbrecht ; J. Hartmann ; J. Gebhard ; M. Speicher ; D. Haffa ; P. Hiltz ; J. Bin ; E. McCary ; S. Stork ; G. Dyer ; M. E. Donovan ; T. Ditmire ; B. M. Hegelich ; M. Martinez ; E. Gaul ; J. Wenz ; K. Parodi ; J. Gordon ; M. Spinks ; P. R. Bolton ; J. Schreiber</i>	
<b>DEVELOPMENT OF TOF-SPECTROMETRY OF LASER-ACCELERATED PROTON PULSES USING SILICON MICRODOSIMETERS.....</b>	1551
<i>M. Wurt ; F. Englbrecht ; S. Lehrack ; D. Haffa ; C. Kreuzer ; F. H. Lindner ; T. F. Rösch ; S. Reinhardt ; S. Karsch ; W. Assmann ; L. T. Tran ; M. Petasecca ; M. Lerch ; J. Schreiber ; A. Rosenfeld ; K. Parodi</i>	

<b>MICROBEAM RADIATION THERAPY AT A LASER-BASED COMPACT SYNCHROTRON X-RAY SOURCE</b> .....	1552
<i>Karin Burger ; Katarina Ilicic ; Amique Hunger ; Martin Dierolf ; Benedikt Günther ; Ernst Schmid ; Dietrich W. M. Walsh ; Theresa Urban ; Stefan Bartzsch ; Amira Radtke ; Elena Eggl ; Klaus Achterhold ; Bernhard Gleich ; Stephanie E. Combs ; Michael Molls ; Thomas E. Schmid ; Franz Pfeiffer ; Jan J. Wilkens</i>	
<b>BROADLY TUNABLE EXTERNAL CAVITY QUANTUM CASCADE LASER FOR MEDICAL HYPERSPECTRAL IMAGING AT 11 μM WAVELENGTH REGION</b> .....	1553
<i>Yohei Matsuoka ; Jan F. Kischkat ; Mykhaylo P. Semsiv ; William T. Masselink</i>	
<b>LASER-DRIVEN ION (LION) ACCELERATION AT THE CENTRE FOR ADVANCED LASER APPLICATIONS (CALA)</b> .....	1554
<i>T. F. Rösch ; D. Haffa ; J. H. Bin ; F. Englbrecht ; Y. Gao ; V. Gisbert ; J. Gebhard ; D. Hahner ; J. Hartmann ; M. Haug ; S. Herr ; P. Hiltz ; C. Kreuzer ; S. Lehrack ; F. H. Lindner ; T. M. Ostermayr ; E. Ridente ; S. Seufferling ; M. Speicher ; M. Würll ; R. Yang ; K. Parodi ; J. Schreiber</i>	
<b>SPECTROSCOPIC TOOLS FOR THE ELUCIDATION OF DISEASE SPECIFIC CHANGES IN BREAST CANCER</b> .....	1555
<i>Pascaline Bouzy ; Francesca Palombo ; Nicholas Stone</i>	
<b>PLASMONICS OF TOPOLOGICAL INSULATORS AT OPTICAL FREQUENCIES</b> .....	1556
<i>Jun Yin ; Harish N. S. Krishnamoorthy ; Giorgio Adamo ; Alexander M. Dubrovkin ; Jin-Kyu So ; Yidong Chong ; Nikolay I. Zheludev ; Cesare Soci</i>	
<b>TOPOLOGY IN A SYNTHETIC DIMENSION AS A TOOL FOR NON-RECIPROCAL PHOTONIC TRANSPORT</b> .....	1557
<i>Oded Zilberberg ; Hannah Price ; Tomoki Ozawa ; Nathan Goldman ; Iacopo Carusotto</i>	
<b>NONRECIPROCAL TRANSMISSION AND OPTICAL ISOLATION WITH EFFECTIVE MAGNETIC FIELDS IN MULTIMODE OPTOMECHANICAL SYSTEMS</b> .....	1558
<i>Freek Ruesink ; John P. Mathew ; Mohammad-Ali Miri ; Andrea Alù ; Ewold Verhagen</i>	
<b>OPTICAL PROBING OF A TWO-DIMENSIONAL ELECTRON SYSTEM IN A MICROCAVITY: QUANTUM HALL POLARITONS</b> .....	1559
<i>Sylvain Ravets ; Stefan Faelt ; Martin Kroner ; Werner Wegscheider ; Atac Imamoglu</i>	
<b>POLARITON LASING IN THE EDGE STATES OF AN ORBITAL SSH CHAIN</b> .....	1560
<i>Philippe St-Jean ; Élisabeth Galopin ; Aristide Lemaître ; Luc Le Gratiet ; Isabelle Sagnes ; Jacqueline Bloch ; Alberto Amo</i>	
<b>TOPOLOGICAL INSULATOR SOLITONS IN POLARITON GRAPHENE</b> .....	1561
<i>Yaroslav V. Kartashov ; Dmitry V. Skryabin</i>	
<b>EXPERIMENTAL OBSERVATION OF OPTICAL WEYL POINTS</b> .....	1562
<i>J. Noh ; S. Huang ; D. Leykam ; Y. D. Chong ; K. Chen ; M. C. Rechtsman</i>	
<b>DIFFRACTION PROPERTIES OF FLOQUET TOPOLOGICAL STATES IN PHOTONIC LATTICES</b> .....	1563
<i>Mathieu Bellec ; Claire Michel ; Haisu Zhang ; Stelios Tzortzakis ; Pierre Delplace</i>	
<b>TOPOLOGICAL PHOTONICS WITH EXCEPTIONAL POINTS</b> .....	1564
<i>Stefan Rotter</i>	
<b>CONTROL OF THE RINGS OF EXCEPTIONAL POINTS IN PHOTONIC CRYSTAL SLABS</b> .....	1565
<i>Piotr M. Kaminski ; Olav Breinbjerg ; Jesper Mork ; Samel Arslanagic</i>	
<b>EXPERIMENTAL DEMONSTRATION OF PHOTONIC ANOMALOUS FLOQUET TOPOLOGICAL INSULATORS</b> .....	1566
<i>Lukas J. Maczewsky ; Julia M. Zeuner ; Stefan Nolte ; Alexander Szameit</i>	
<b>EXOTIC NANOPHOTONIC STATES FOR ENHANCED ACTIVE PHOTONIC DEVICES</b> .....	1567
<i>Marin Soljacic</i>	
<b>OBSERVATION OF EDGE STATES AT TELECOM WAVELENGTHS IN A NANOSCALE TOPOLOGICAL PHOTONIC CRYSTAL</b> .....	1568
<i>Sabyasachi Barik ; Hirokazu Miyake ; Wade Degottardi ; Edo Waks ; Mohammad Hafezi</i>	
<b>TOPOLOGICALLY INDUCED OPTICAL LIMITER</b> .....	1569
<i>U. Kuhl ; F. Mortessagne ; E. Makri ; I. Vitebskiy ; T. Kottos</i>	
<b>CLEO®/EUROPE-EQEC 2017 OPTICAL CHERN INSULATORS FROM CONICAL REFRACTION</b> .....	1570
<i>Robert Mc Guinness ; Paul Eastham</i>	
<b>PHOTONIC MODES LOCALIZED BY GAUGE FIELD IN SYNTHETIC PHOTONIC LATTICES</b> .....	1571
<i>Artem Pankov ; Ilya D. Vatnik ; Dmitry V. Churkin ; Andrey A. Sukhorukov</i>	
<b>IMAGING THE BAND STRUCTURE TOPOLOGY IN 1D PHOTONIC INSULATORS</b> .....	1572
<i>Clement Dutreix</i>	
<b>FLOQUET TOPOLOGICAL PHASES IN PT SYMMETRIC QUANTUM WALKS WITH GAIN AND LOSS</b> .....	1573
<i>Hideaki Obuse ; Ken Mochizuki ; Dakyeong Kim ; Norio Kawakami</i>	
<b>THE EUROPEAN QUANTUM TECHNOLOGIES FLAGSHIP PROGRAM</b> .....	1574
<i>Tommaso Calarco</i>	
<b>AC-DRIVEN PEROVSKITE LIGHT-EMITTING FIELD-EFFECT TRANSISTORS</b> .....	1575
<i>Francesco Maddalena ; Xin Yu Chin ; Daniele Cortecchia ; Annalisa Bruno ; Cesare Soci</i>	
<b>CLEO®/EUROPE-EQEC 2017, METHYLAMMONIUM LEAD HALIDE INKS IN ENVIRONMENTAL FRIENDLY SOLVENT</b> .....	1576
<i>Roberto Sorrentino ; Peter Topolovsek ; Vijay Venugopalan ; Diego Nava ; Mario Caironi ; Annamaria Petrozza</i>	
<b>MULTIEXCITON RECOMBINATION DYNAMICS IN CSPBBR3 PEROVSKITE NANOCRYSTALS REVEALED BY FEMTOSECOND TRANSIENT ABSORPTION AND SINGLE DOT SPECTROSCOPIES</b> .....	1577
<i>N. Yariita ; H. Tahara ; T. Ihara ; T. Kawawaki ; R. Sato ; M. Saruyama ; T. Teranishi ; Y. Kanemitsu</i>	
<b>NOVEL MATERIALS FOR STABLE PEROVSKITE SOLAR CELLS</b> .....	1578
<i>Antonio Abate</i>	



<b>PEROVSKITES PHOTOPHYSICS: HALF-ORGANIC, HALF-INORGANIC AND A QUARTER OF MAGIC</b> .....	1579
<i>V. Sarritsu ; N. Sestu ; D. Marongiu ; X. Chang ; Q. Wang ; M. Saba ; F. Quochi ; A. Mura ; G. Bongiovanni</i>	
<b>ULTRAFAST CARRIER COOLING AND THERMALIZATION IN LEAD IODIDE PEROVSKITE PROBED WITH TWO-DIMENSIONAL ELECTRONIC SPECTROSCOPY</b> .....	1580
<i>Johannes M. Richter ; Federico Branchi ; Franco Valduga De Almeida Camargo ; Baodan Zhao ; Richard H. Friend ; Giulio Cerullo ; Felix Deschler</i>	
<b>SMALL POLARONS IN 2D PEROVSKITES</b> .....	1581
<i>Daniele Cortecchia ; Jun Yin ; Muhammad D. Birowosuto ; Shu-Zee A. Lo ; Gagik G. Gurzadyan ; Annalisa Bruno ; Jean-Luc Brédas ; Cesare Soci</i>	
<b>REAL-TIME VIEW OF LIQUID-LIKE SCREENING AND LARGE POLARON FORMATION IN LEAD HALIDE PEROVSKITES</b> .....	1582
<i>Prakriti P. Joshi ; Kiyoshi Miyata ; Xiaoyang Zhu</i>	
<b>IMPACT OF PHOTON RECYCLING ON CARRIER RECOMBINATION PROCESSES IN CH<sub>3</sub>NH<sub>3</sub>PBBR<sub>3</sub> SINGLE CRYSTALS REVEALED BY TIME-RESOLVED TWO-PHOTON-EXCITATION MICROSCOPY</b> .....	1583
<i>Takumi Yamada ; Yasuhiro Yamada ; Yumi Nakaike ; Atsushi Wakamiya ; Yoshihiko Kanemitsu</i>	
<b>PEROVSKITE LASER INTEGRATED ON A CONVENTIONAL SI<sub>3</sub>N<sub>4</sub> PHOTONIC PLATFORM</b> .....	1584
<i>Piotr J. Cegielski ; Stefanie Neutzner ; Caroline Porschatis ; Holger Lerch ; Jens Bolten ; Stephan Suckow ; Ajay R. S. Kandada ; Bartos Chmielak ; Annamaria Petrozza ; Thorsten Wahlbrink ; Anna Lena Giesecke</i>	
<b>SCALABLE AND LOW COST FABRICATION METHODS FOR WAVELENGTH TUNABLE SOLUTION PROCESSED PEROVSKITE DISTRIBUTED FEEDBACK LASERS</b> .....	1585
<i>Philipp Brenner ; Florian Mathies ; Dorothee Kapp ; Uli Paetzold ; Aina Quintilla ; Gerardo Hernandez-Sosa ; Ian Howard ; Uli Lemmer</i>	
<b>NANOPATTERNING-ENHANCED PEROVSKITE LUMINOPHORES</b> .....	1586
<i>Giorgio Adamo ; Behrad Gholipour ; Kar Cheng Lew ; Daniele Cortecchia ; Harish N. S. Krishnamoorthy ; Annalisa Bruno ; Jin-Kyu So ; Muhammad D. Birowosuto ; Nikolay I. Zheludev ; Cesare Soci</i>	
<b>RANDOM LASING IN SOLUTION-PROCESSED PEROVSKITE THIN FILMS</b> .....	1587
<i>Anna Safdar ; Yue Wang ; Thomas F. Krauss</i>	
<b>OPTIMIZING ABSORPTION AND SCATTERING CROSS SECTION OF METAL NANOSTRUCTURES FOR ENHANCING LIGHT COUPLING INSIDE PEROVSKITE SOLAR CELLS</b> .....	1588
<i>Omar A. M. Abdelraouf ; Hany A. Ali ; Nageh K. Allam</i>	
<b>DYNAMIC DISORDER IN ABX<sub>3</sub> (A=CH<sub>3</sub>NH<sub>3</sub>, CS; B=PB; X=BR<sub>3</sub>, Cl<sub>3</sub>) PEROVSKITES</b> .....	1589
<i>Driele Von Dreifus ; Omer Yaffe ; Yinsheng Guo ; Trevor Hull ; Guilherme Szpak ; Octavi E. Semonin ; Alexander N. Beecher ; Jonathan S Owen ; Louis E. Brus ; Marcos A. Pimenta</i>	
<b>ULTRASENSITIVE DETECTION OF SEMICONDUCTOR LUMINESCENCE WITH HIGH TIME-AND SPACE-RESOLUTION</b> .....	1590
<i>Felix Koberling ; Sebastian Tannert ; Christian Litwinski ; Manoel Veiga ; Volker Buschmann ; Matthias Patting ; Marcus Sackrow ; Michael Wahl ; Rainer Erdmann ; Christian Wolf ; Christian Kaufmann ; Humberto Rodríguez Alvarez</i>	
<b>CHARGE CARRIER INJECTION AT THE HETEROINTERFACE IN CH<sub>3</sub>NH<sub>3</sub>PBI<sub>3</sub> PEROVSKITE SOLAR CELLS STUDIED BY TIME-RESOLVED PHOTOLUMINESCENCE AND PHOTOCURRENT IMAGING SPECTROSCOPY</b> .....	1591
<i>Taketo Handa ; Daiki Yamashita ; David M. Tex ; Ai Shimazaki ; Atsushi Wakamiya ; Yoshihiko Kanemitsu</i>	
<b>LATTICE DISTORTIONS DRIVE ELECTRON-HOLE CORRELATION WITHIN MICROMETER SIZE LEAD-IODIDE PEROVSKITE</b> .....	1592
<i>Giulia Grancini ; Daniele Viola ; Marina Gandini ; Davide Altamura ; Eva Arianna Aurelia Fogna ; Valerio D'Innocenzo ; Ilaria Bargigia ; Cinzia Giannini ; Giulio Cerullo ; Annamaria Petrozza</i>	
<b>FREE EXCITONS AND EXCITON-PHONON COUPLING IN CH<sub>3</sub>NH<sub>3</sub>PBI<sub>3</sub> PEROVSKITE SINGLE CRYSTALS AT LOW TEMPERATURES</b> .....	1593
<i>L. Q. Phuong ; Y. Nakaike ; A. Wakamiya ; Y. Kanemitsu</i>	
<b>DIRECT COMB SPECTROSCOPY BY QUANTUM-ZENO-EFFECT ASSISTED DETECTION</b> .....	1594
<i>Akira Ozawa ; Josue Davila-Rodriguez ; Theodor W. Hänsch ; Thomas Udem</i>	
<b>FEMTOSECOND LASER PROCESSING FOR SINGLE NV-WAVEGUIDE INTEGRATION IN DIAMOND</b> .....	1595
<i>Belén Sotillo ; Vibhav Bharadwaj ; John Patrick Hadden ; Stefano Rampini ; Andrea Chiappini ; Cristina Armellini ; Luigino Criante ; Toney T. Fernandez ; Roberto Osellame ; Maurizio Ferrari ; Roberta Ramponi ; Paul E. Barclay ; Shane M. Eaton</i>	
<b>ROOM-TEMPERATURE ULTRAFAST NONLINEAR SPECTROSCOPY OF SINGLE MOLECULES WITH BROADBAND DETECTION</b> .....	1596
<i>Matz Liebel ; Costanza Toninelli ; Niek F. Van Hulst</i>	
<b>SUB-50-FS KERR LENS MODE-LOCKED THIN-DISK LASERS</b> .....	1597
<i>C. Paradis ; N. Modsching ; M. Gaponenko ; F. Labaye ; F. Emaury ; A. Diebold ; I. Graumann ; B. Deppe ; C. Kränkel ; V. J. Wittwer ; T. Südmeyer</i>	
<b>7-W, 2-CYCLE SELF-COMPRESSED PULSES AT 2.1 MICRON FROM A HO:YAG THIN DISK LASER OSCILLATOR</b> .....	1598
<i>Jinwei Zhang ; Ka Fai Mak ; Nathalie Nagl ; Marcus Seidel ; Ferenc Krausz ; Oleg Pronin</i>	
<b>PHASE AND AMPLITUDE SINGLE-SHOT MEASUREMENT BY USING TIME-LENS AND ULTRAFAST TIME-HOLOGRAPHY</b> .....	1599
<i>Alexey Tikan ; Serge Bielawski ; Christophe Szwej ; Stéphane Randoux ; Pierre Suret</i>	
<b>FIBER FREE ALL SOLID STATE MULTIPASS SPECTRAL BROADENING DOWN TO 10 FS FOURIER LIMIT</b> .....	1600
<i>Kilian Fritsch ; Jonathan Brons ; Markus Poetzlberger ; Vladimir Pervak ; Ferenc Krausz ; Oleg Pronin</i>	
<b>ELLIPTICITY DEPENDENCE OF HIGHER-ORDER HARMONICS IN SOLIDS: UNRAVELING THE INTERPLAY BETWEEN INTRABAND AND INTERBAND DYNAMICS</b> .....	1601
<i>N. Klemke ; G. Di Sciaccia ; Y. Yang ; G. M. Rossi ; R. E. Mainz ; N. Tancogne-Dejean ; A. Rubio ; F. X. Kärtner ; O. D. Mücke</i>	

<b>ULTRAFAST TERAHERTZ DETECTORS BASED ON 3D META-ATOMS</b> .....	1602
<i>B. Paulillo ; S. Pirotta ; H. Nong ; P. Crozat ; S. Gullet ; G. Xu ; L. Li ; E. H. Linfield ; G. A. Davies ; S. Dhillon ; R. Colombelli</i>	
<b>A FIBER COUPLED SOURCE OF IDENTICAL SINGLE PHOTONS</b> .....	1603
<i>H. Sniijders ; J. A. Frey ; J. Norman ; V. P. Post ; A. Gossard ; J. E. Bowers ; M. P. Van Exter ; D. Bouwmeester ; W. Löffler</i>	
<b>LINESHAPE SPLITTING WITH SINGLE ATOMS IN CONCENTRIC CAVITIES</b> .....	1604
<i>Chihuan Nguyen ; Adrian Utama ; Christian Kurtsiefer</i>	
<b>ON-CHIP NON-RECIPROCAL LIGHT STORAGE</b> .....	1605
<i>Moritz Merklein ; Birgit Stiller ; Khu Vu ; Pan Ma ; Stephen J. Madden ; Benjamin J. Eggleton</i>	
<b>BROADBAND MID-INFRARED SUPERCONTINUUM GENERATION IN LOW LOSS DISPERSION ENGINEERED SILICON-GERMANIUM WAVEGUIDE</b> .....	1606
<i>Milan Sinobad ; Pan Ma ; Barry Luther-Davies ; David Allieux ; Regis Orobchouk ; David J. Moss ; Stephen Madden ; Salim Boutami ; Jean-Marc Fedeli ; Christelle Monat ; Christian Grillet</i>	
<b>OBSERVATION OF BROKEN SYMMETRY IN THE MODULATION INSTABILITY RECURRENCE</b> .....	1607
<i>Arnaud Mussot ; Pascal Szriftgiser ; Corentin Naveau ; Matteo Conforti ; Alexandre Kudlinski ; François Copie ; Stefano Trillo</i>	
<b>COMMISSIONING RESULTS OF THE WORLD'S FIRST DIODE-PUMPED 10HZ PW LASER</b> .....	1608
<i>T. Spinka ; E. Sistrunk ; A. Bayramian ; J. P. Armstrong ; S. Baxamusa ; S. Betts ; D. R. Bopp ; S. Buck ; K. Charron ; J. Cupal ; R. Demaret ; R. Deri ; J. -M. Di Nicola ; A. Erlandson ; E. S. Fulkerson ; C. Gates ; J. Horner ; J. Horacek ; J. Jarboe ; K. Kasl ; D. Kim ; E. Koh ; L. Koubikova ; R. Lanning ; J. Lusk ; W. Maranville ; C. Marshall ; D. Mason ; J. Menapace ; P. Miller ; P. Mazurek ; A. J. Naylor ; J. Nissen ; J. Novak ; D. Peceli ; P. Rosso ; K. Schaffers ; T. Silva ; D. Smith ; J. Stanley ; R. Steele ; C. Stolz ; T. Suratwala ; S. Telford ; J. Thoma ; D. Vanblarcom ; J. Weiss ; P. Wegner ; B. Rus ; C. Haefner</i>	
<b>STRONG POWER UPSCALING OF THZ SOURCES BASED ON LASER FILAMENTATION IN TRANSPARENT MEDIA</b> .....	1609
<i>A. D. Koulouklidis ; I. Dey ; C. Daskalaki ; V. Yu. Fedorov ; K. Jana ; A. Mondal ; M. Shaikh ; D. Sarkar ; A. D. Lad ; G. R. Kumar ; A. Couairon ; S. Tzortzakis</i>	
<b>UPDATED ABSOLUTE FREQUENCY OF THE <sup>115</sup>IN<sup>+</sup> OPTICAL CLOCK TRANSITION</b> .....	1610
<i>Nozomi Ohtsubo ; Ying Li ; Kensuke Matsubara ; Tetsuya Ido ; Kazuhiro Hayasaka</i>	
<b>FROM OPTICAL FIBRE TO AMPLIFIERS AND HIGH POWER LASER</b> .....	1611
<i>David Payne</i>	
<b>PUTTING A SPIN ON PHOTONS</b> .....	1612
<i>Jörg Wrachtrup</i>	
<b>ATTOSECOND METROLOGY 2.0 SOLID-STATE INSTRUMENTATION PAVES THE WAY TOWARDS REAL-WORD APPLICATIONS</b> .....	1613
<i>Ferenc Krausz</i>	
<b>Author Index</b>	