

2025 Conference on Lasers and Electro-Optics Europe & European Quantum Electronics Conference (CLEO/Europe-EQEC 2025)

**Munich, Germany
23-27 June 2025**

Pages 1-670



**IEEE Catalog Number: CFP25ECL-POD
ISBN: 979-8-3315-1253-8**

**Copyright © 2025 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:	CFP25ECL-POD
ISBN (Print-On-Demand):	979-8-3315-1253-8
ISBN (Online):	979-8-3315-1252-1
ISSN:	2639-5452

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
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

High-Power 4.5-GHz Repetition-Rate Diode-Pumped Kerr-Lens Mode-Locked Laser	1
<i>Jie Tao, Wenlong Tian, Li Zheng, Peng Ye, Zhiyi Wei, Jiangfeng Zhu</i>	
Watt-Level Multi-Gigahertz-Repetition-Rate Femtosecond Optical Parametric Oscillator	2
<i>Hua Wang, Hui Tong, Wenlong Tian, Li Zheng, Qizhen Luo, Zhiyi Wei, Jiangfeng Zhu</i>	
1.06-GHz Diode-Pumped Modelocked 2.4- μm Cr:ZnS Laser	3
<i>José Miguel Pereira, Christian Pedersen, Ajanta Barh</i>	
Ultra-Low-Noise Frequency Comb at 2.3 μm	4
<i>Maciej Kowalczyk, Karolina Suliga, Jakub Jaworski, Jaroslaw Sotor</i>	
Octave Spanning Supercontinuum Generation in Ta2O5 Waveguides Driven by Femtosecond 2.1- μm Laser.....	5
<i>Sergei Tomilov, Yicheng Wang, Mykyta Redkin, Michael Müller, David R. Carlson, Martin Hoffmann, Clara J. Saraceno</i>	
Space Flight Representative and Life Time Optimised UV Laser Engineering Model for the Aeolus- 2 Mission	6
<i>Dominik Esser, Martin Giesberts, Benjamin Erben, Sebastian Nyga, Raphael Kasemann, Matthias Winzen, Heinrich Faidel, Marco Höfer, Jonas Eßer, Witalij Wirz, Sarah Klein, Martin Traub, Christian Girr, Jürgen Klein, Wolfgang Brandenburg, Marc-Till Boldt, Patrick Baer, Jenny Knöfelf, Jan Heuter, Dominik Mohr, Hans-Dieter Hoffmann, Christian Wührer, Sven Hahn, Lucía Péres Prieto</i>	
Coherent Beam Combining of Four Semiconductor Optical Amplifiers for High-Peak-Power Acousto-Optic Imaging	7
<i>Sylvie Janicot, Qin Liu, François Figliolia, François Ramaz, Maïmouna Bocoum, Patrick Georges, Gaëlle Lucas-Leclin</i>	
Wavelength Agile, Narrow-Linewidth, Nanosecond, 4 mJ, Hybrid Yb ³⁺ Fiber/Bulk 1030 nm Laser for LIDAR Applications	8
<i>Antoine Zheng, Xavier Délen, Jean-Baptiste Dherbecourt, Myriam Raybaut, Jean-Michel Melkonian, Patrick Georges, Antoine Godard</i>	
Generation of Temporally Incoherent and Arbitrarily Shaped Optical Pulses Using Semiconductor Optical Amplifier for Fusion Applications	9
<i>Loïc Meignien, Jean-Christophe Delagnes, Marc Hanna, Pierre Lebegue, Marie Froidevaux, Dimitris Papadopoulos, Frédéric Druon, Patrick Audebert</i>	
Diamond Sodium Guide Star Laser Pulsed at Larmor Frequency.....	10
<i>Xuezhong Yang, Yuxiang Sun, Yan Feng</i>	
Miniaturisation of Diode-Pumped Solid-State Lasers for Nonlinear-Optical Augmented Reality	11
<i>Goronwy Tawy, Rex H. Bannerman, Glenn Churchill, James C. Gates, Corin B. E. Gawith, Peter G. R. Smith</i>	
Solid-State Lasers with Direct Emission at 413 nm and 435 nm.....	12
<i>Moritz Badtke, Hiroki Tanaka, Sascha Kalusniak, Christian Kränkel</i>	
Red Ridge Pr:LiYF ₄ Waveguide Laser with >50% Optical Efficiency.....	13
<i>Jonathan Demaimay, Pavel Loiko, Ji Eun Bae, Gurvan Brasse, Florent Starecki, Blandine Guichardaz, Patrice Camy, Alain Braud</i>	

Efficient YLF Pr:YLF Composite Microlaser at 639 nm	14
<i>Esrom Kifle, Rémi Soulard, Julien Rouvillain, Pavel Loiko, Alain Braud, Thierry Georges, Patrice Camy</i>	
21-Fs Diode-Pumped Kerr-Lens Mode-Locked Yb:(Y,Sc)2O3 Sesquioxide Laser	15
<i>Hai-Yu Nie, Huang-Jun Zeng, Zhang-Lang Lin, Ge Zhang, Xiaodong Xu, Pavel Loiko, Chengbo Mou, Zhi-Chao Luo, Xavier Mateos, Valentin Petrov, Weidong Chen</i>	
Mode-Locked Operation of Yb:LuGG Channel Waveguide Laser Using Carbon Nanotubes	16
<i>Deok Woo Kim, Seong-Eun Lim, Xavier Mateos, Weidong Chen, Carolina Romero, Javier Rodriguez Vázquez De Aldana, Fabian Rotermund</i>	
Highly Efficient Tm ³⁺ :LiYF ₄ Cascade Laser for Telecom Wavelengths	17
<i>Moritz Badtke, Stefan Püschel, Zoe Liestmann, Hiroki Tanaka, Christian Kränkel, Sascha Kalusniak</i>	
Carrier-Envelope Offset Frequency Stabilization in Solid-State Lasers: Direct Electro-Optic Vs Pump-Power Modulation.....	18
<i>Karolina Suliga, Jaroslaw Sotor, Maciej Kowalczyk</i>	
Development of Pulse-Shape-Controlled Hybrid ArF Excimer Laser.....	19
<i>Hironori Igarashi, Atsushi Fuchlmukai, Yasuhiro Kamba, Yasuaki Moriai, Rikuo Koike, Taisuke Miura</i>	
Toward 100Hz Joule Class Ultra-Short Pulses TiSa Laser	20
<i>Pellegrina A., Kabacinski A., Jeandet A., Leroux V., Lavenu L., Chalus O., Casagrande O., Ricaud S., Simon-Boisson C.</i>	
9.3-W 2.3- μ m Fs MOPA Employing Cr:ZnS/ZnSe Polycrystal Rods	21
<i>Weibo Wu, Yuchen Wang, Xiyue Zhang, Ting Yu, Jintai Fan, Pinghua Tang, Long Zhang</i>	
Optimising Single-Frequency Intra-Cavity-Doubled Diamond Raman Lasers	22
<i>Adam Sharp, Osama Terra, Richard Pahlavani, Ondrej Kitzler, David J. Spence, Jipeng Lin, Tiago Ortega, Richard P. Mildren</i>	
A Simple 1 mJ Ti:Sapphire Booster Amplifier for the KALDERA Plasma Acceleration Drive Laser at 1 kHz	23
<i>C. Braun, J. B. Gonzalez-Diaz, T. Eichner, T. Hülsenbusch, G. Palmer, A. R. Maier</i>	
Cooling Laser Media in a Turbulent Or Instable Flow: Index-Leveling for Forced-Flow Face-Cooling of High-Power Amplifiers	24
<i>Denis Marion, Jérôme Lhermite, Christophe Féral, Mathias Lachat, Duncan Sarton, Antoine Rohm, Philippe Balcou</i>	
Stable Intracavity Frequency Up-Conversion for Mid-Infrared Spectroscopy	25
<i>Elena Fedorova, Søren M. M. Friis, Lasse Høgstedt</i>	
Exploration of Type-I Intermittency Leading to Chaos in a Passively Q-Switched Tm:YLF Laser Emitting at 2.3 μ m.....	26
<i>Matthieu Glasset, Hippolyte Dupont, Patrick Georges, Frédéric Druon</i>	
Sub-30-Fs Kerr-Lens Mode-Locked Yb:CaF ₂ Laser	27
<i>Huang-Jun Zeng, Zhang-Lang Lin, Pavel Loiko, Ge Zhang, Abdelmjid Benayad, Simone Normani, Patrice Camy, Chengbo Mou, Zhi-Chao Luo, Xavier Mateos, Valentin Petrov, Weidong Chen</i>	

Study of the Fast Dynamics of Optical Aberrations on Nd:Glass Flash-Pumped Kilojoule-Class Laser Chains Toward the Coherent Beam Combining	28
<i>Pierre Lebegue, Cyril Rapeneau, Doina Badarau, Marie Froidevaux, Joanna De Sousa, Loïc Meignien, Ivan Doudet, Nolan Chan, Benoit Wattellier, Patrick Audebert, Dimitris Papadopoulos, Frédéric Druon</i>	
1 kHz, 10 mJ Yb:CaGdAlO ₄ Amplifier	29
<i>Fengchen Zhang, Geyang Wang, Wenlong Tian, Yang Yu, Yishan Wang, Zhiyi Wei, Jiangfeng Zhu</i>	
Tunable Mid-Infrared Ultrafast Soliton Molecules from a Kerr-Lens Mode-Locked Few-Cycle Cr:ZnS Laser	30
<i>Xiyue Zhang, Yuchen Wang, Weibo Wu, Tinghui An, Yiguang Jiang, Jintai Fan, Benxue Jiang, Pinghua Tang, Gianluca Galzerano, Paolo Laporta, Long Zhang</i>	
Improvement of Beam Ellipticity and Amplification Efficiency of Two Side Cooled Yb:YAG Thin Rod Using Atomic-Diffusion-Bonding.....	31
<i>Yasuhiro Kamba, Ryo Kageyama, Atsushi Fuchimukai, Taisuke Miura, Miyuki Uomoto, Takehito Shimatsu</i>	
Sub-100 Fs, 10 W Yb:CaAlYO ₄ CPA Regenerative Amplifier a Front-End for Average Power Scaling of 0.1-1 MHz Yb-Lasers.....	32
<i>Dimitar Velkov, Lyuben S. Petrov, Kaloyan Georgiev, Jan Bartonicek, Stephan Shishkov, Xiaodong Xu, Ivan Buchvarov</i>	
Highly Efficient Cryogenically Cooled Ho: YLF Oscillator	33
<i>Miftar Ganija, Keiron Boyd, Jesper Munch</i>	
Efficient Laser Operation of Cleaving Yb:CsGd(MoO ₄) ₂ Crystal	34
<i>Ghassen Zin Elabedine, Pavel Loiko, Anatoly Pavlyuk, Nikolay Naumov, Rosa Maria Solé, Alain Braud, Patrice Camy, Magdalena Aguiló, Francesc Díaz, Xavier Mateos</i>	
Compact, High Efficiency, Continuous-Wave, Single Frequency Watt-Level 532nm and 561nm Diode-Pumped Lasers Based on a Linear Monolithic Cavity	35
<i>Christophe Bonnin, Julien Rouvillain, Thierry Georges</i>	
Balancing Orthogonal Polarizations in Ytterbium-Doped Isotropic-Crystal Lasers: Effect of Crystal Disorder	36
<i>H. Akagla, P. Loiko, G. Loas, A. Benayad, P. Camy, W. Chen, M. Vallet, M. Brunel</i>	
Fabrication of YAG/Yb:YAG Microchip/Yb:YAG Composite MOPA Using Room-Temperature Bonding	37
<i>Sadafumi Ishizuka, Tomoya Yamada, Ichiro Shoji</i>	
Numerical Model of Broadband Pulse Amplification in Cryogenic Yb:YLF Regenerative Amplifiers.....	38
<i>Alexey Yakovlev, Martin Kellert, Jelto Thesinga, Umit Demirbas, Muharrem Kilinc, Mikhail Pergament, Franz X. Kärtner</i>	
Airborne Single Longitudinal Mode UV Laser Tailored for Clear Air Turbulence Detection.....	39
<i>Johann Thurn, Raoul-Amadeus Lorbeer, Peter Mahnke, Oliver Kliebisch</i>	
Spectrally-Resolved Intensity Noise Measurement of Cr:ZnS Kerr-Lens Mode-Locked Lasers.....	40
<i>Jakub Jaworski, Maciej Kowalczyk</i>	
Kilowatt-Level Femtosecond Thin-Disk Laser Without CPA	41
<i>Xing Liu, Sizhi Xu, Xingyu He, Yubo Gao, Haotian Lu, Qitao Lue, Shuangchen Ruan</i>	

Nonlinear Pulse Compression of a Thin-Disk Amplifier to 620 Fs at 303 W, 660 kHz by a Bulk Multi-Pass Cell	42
<i>Yubo Gao, Sizhi Xu, Xingyu He, Xing Liu, Qitao Lue, Shuangchen Ruan</i>	
Liquid Face Cooled Spinning Disks for Kilowatt Yb-YAG Laser Amplifier	43
<i>Jérôme Lhermite, Christophe Féral, Denis Marion, Mathias Lachat, Antoine Rohm, Stéphane Petit, Dominique Descamps, Duncan Sarton, Marie-Christine Nadeau, Jérémy Brandam, Alexandre Mélé, Eric Mével, Laurent Lamaignère, Philippe Balcou</i>	
Wedged Thin-Disk Amplifier with 50% Extraction Efficiency in a Single Pass	44
<i>Pirmin Schweizer, Raoul-Amadeus Lorbeer, Benjamin Ewers, Jochen Speiser, Thomas Dekorsy</i>	
Novel Method for Controlling the Brightness of Laser Beams Emitted by a Thin-Disk Laser	45
<i>Ayoub Boubekraoui, Stephanie Mrzyglod, Stefan Esser, Christian Schmittner, Oliver Sawodny, Thomas Graf, Marwan Abdou Ahmed</i>	
Flat-Top Beam Shaping for High-Power High-Energy Ps Yb:YAG Lasers	46
<i>Stéphane Petit, Vincent Fortin, Maylis Lavastre, Marie-Christine Nadeau, Philippe Balcou, Dominique Descamps, Christophe Féral, Mathias Lachat, Jérôme Lhermite, Denis Marion, Eric Mevel, Antoine Rohm</i>	
Seed Spectral Shaping for 90 Fs Multi-MJ 1-KHz Laser Pulses in Yb:CaAlYO ₄ Amplifier	47
<i>Dimitar Velkov, Lyuben S. Petrov, Iriney Vasilev, Kaloyan Georgiev, Marta Mladenova, Xiaodong Xu, Anton Trifonov, Tihomir Tenev, Ivan Buchvarov</i>	
60 W Continuous-Wave Diamond Raman Laser in the Visible	48
<i>Adam Sharp, Hadiya Jasbeer, Richard Pahlavani, Ondrej Kitzler, David J. Spence, Richard P. Mildren</i>	
Ultra-Low-Noise Diamond Raman Lasers with Enhanced Linewidth Narrowing	49
<i>Zhenxu Bai, Hui Chen, Wenqiang Fan, Zhongang Zhao, Yulei Wang, Zhiwei Lu</i>	
Towards Stable, Low-Phase-Noise, and Multi-Watt Single Frequency Diamond Lasers in the Visible.....	50
<i>Osama Terra, Adam Sharp, Jipeng Lin, Tiago A. Ortega, Richard P. Mildren</i>	
Power Scaling Approach for Visible Lasers Based on Multi-Axial Mode External Resonant Second Harmonic Generation	51
<i>Manuel A. Medina, Sahar Alidousti, Callum McEwan, W. Andrew Clarkson</i>	
Generation of High-Energy Laser Pulses at 266 nm with Sub-Nanosecond Pulse Duration and 20 Hz Repetition Rate	52
<i>Kenichi Hirose, Nobuo Ohata, Hideho Odaka, Arvydas Kausas, Vincent Yahia, Takunori Taira</i>	
100 W Coherently Combined Picosecond Optical Vortices.....	53
<i>Hossein Fathi, Rafael Barros, Regina Gumenyuk</i>	
LED-Pumped Alexandrite Multipass Amplifier	54
<i>Elio Thellier, Hussein Taleb, Catherine Le Blanc, Pierre Pichon, Frédéric Druon, Patrick Georges, François Balembois</i>	
High Gain Indirectly LED-Pumped Nd:Glass Lasers.....	55
<i>Maxime Nourry-Martin, Nicolas Fermon, Catherine Le Blanc, Loïc Meignien, Patrick Audebert, Frédéric Druon, Patrick Georges, François Balembois</i>	

Off-Resonance Intracavity Upconversion Pumping for High-Power 2.3- μm Tm:YLF Laser.....	56
<i>Matthieu Glasset, Hippolyte Dupont, Lauren Guillemot, Pavel Loiko, Patrice Camy, Patrick Georges, Frédéric Druon</i>	
Electro-Optic Metasurface for Tunable External Cavity Lasers.....	57
<i>Zahra Basiri, Andrea Lanfranchi, Alessandro Tomasino, Francesco Bertot, Ileana-Cristina Benea-Chelmus</i>	
Optimizing the Linewidth of Alexandrite Lasers Emitting in the IR Or the UV for Atmospheric Lidars.....	58
<i>Lamine Seck, Alexander Munk, Michael Strotkamp, Josef Höffner</i>	
Demonstration of a Nanosecond Diode Pumped Solid State Laser Operating at 10 J, 100 Hz and Future Applications	59
<i>Mariastefania De Vido, Gary Quinn, Danielle Clarke, Luke McHugh, Paul Mason, Jacob Spear, Jodie M. Smith, Martin Divoky, Jan Pilar, Ondrej Denk, Thomas J. Butcher, Chris Edwards, Tomas Mocek, John L. Collier</i>	
A 100Hz Ti:Sapphire Amplifier Delivering >700mJ Pulses for High Energy Laser Plasma Acceleration.....	60
<i>T. Eichner, M. Jiang, J. B. Gonzalez-Diaz, T. Hülsenbusch, A. Yousefi, J. Thesinga, M. Pergament, L. Winkelmann, W. P. Leemans, A. R. Maier, G. Palmer</i>	
Picosecond Contrast Improvement for PW Class Lasers Based on Modified Stretcher Design.....	61
<i>O. Chalus, D. Papadopoulos, F. Mathieu, P. Audebert, N. Lebas, M. Charbonneau, S. Pasternak, C. Derycke, S. Ferhat, A. Pellegrina, S. Ricaud, B. Legarrec, E. Gaul, G. Cojocar, A. Toma, S. Norbaev, I. Dancus</i>	
Dielectric Grating Technology for High Power Ultrashort Laser Source.....	62
<i>Samy Ferhat, Doriane Jussey, Guillaume Croizier, Justin Rouxel, Raphael Guillemet, Sandrine Ricaud, Olivier Chalus, Mane-Si Lauree Lee, Brigitte Loiseaux</i>	
Femtosecond Upconversion Pumped 2.3- μm Thulium Laser.....	63
<i>Ji Eun Bae, Marco Gaulke, Pavel Loiko, Jonas Heidrich, Matthias Golling, Said Idlahcen, Lauren Guillemot, Thomas Godin, Frédéric Druon, Patrice Camy, Ursula Keller, Ammar Hideur</i>	
Experiments and Numerical Simulations of Ho:CALGO Regenerative Amplifier at 2.08 μm	64
<i>Anna Suzuki, Boldizsar Kassai, Sergei Tomilov, Yicheng Wang, Clara J. Saraceno</i>	
Ultra-Short Pulse Ho:YAG Slab Amplifier for Laser Processing of Infrared Optical Materials	65
<i>Lucas Groult, Jake Sanwell, Tara Van Abeelen, Adrian Dzipalski, Richard M. Carter, Duncan P. Hand, M. J. Daniel Esser</i>	
Sub-Picosecond Tm:YAP Regenerative Amplifier Operating Out of the Window of Water Vapour Absorption.....	66
<i>Joris Roman, Edgar Kaksis, Julius Lukošiusas, Kirilas Michailovas, Michailas Grišinas, Rokas Danilevicius, Andrejus Michailovas, Andrius Baltuška, Audrius Pugžlys</i>	
Resonantly Pumped Tm-Doped and Y/Lu/Gd/La Buffered CaF ₂ Lasers Tunable in Wide Wavelength Range of 1820–2062 nm.....	67
<i>Dominika Popelová, Karel Veselský, Jan Šulc, Helena Jelínková, Abdelmjid Benayad, Patrice Camy, Alain Braud, Pavel Loiko</i>	

Mid-Infrared Erbium Waveguide Laser Passively Q-Switched by Fe:ZnSe	68
<i>Ji Eun Bae, Pavel Loiko, Carolina Romero, Javier R. Vázquez De Aldana, Stanislav Balabanov, Weidong Chen, Dunlu Sun, Peixiong Zhang, Xavier Mateos, Ammar Hideur, Patrice Camy</i>	
Low-Noise, Single-Frequency, All-Fiber, 50 W-Class Laser Source at 1844 nm for Quantum Applications.....	69
<i>Kentin Poncelet, Coline Lavit, Laure Chichet, Thomas Dubé, Roopa Prakash, Germain Guiraud, Nick Traynor, Adèle Hilico, Giorgio Santarelli</i>	
Resonantly Pumped Tm,Ho:BaF ₂ and Tm,Ho:SrF ₂ Laser Systems Emitting in Atmospheric Window Around 2.04 μm	70
<i>Michal Nemeč, Dominika Popelová, Jan Šilc, Pavel Loiko, Helena Jelínková, Karel Veselský, Abdelmjid Benayad, Patrice Camy, Alain Braud</i>	
Short-Pulse, High-Energy Q-Switched Ho ³⁺ :LLF Laser for Precise Time-Of-Flight and High-Peak-Power Applications.....	71
<i>Johannes Deutsch, Katharina Goth, Madeleine Eitner, Marius Rupp, Marc Eichhorn, Christelle Kieleck</i>	
Single-Frequency Broadly Tunable Cr:ZnSe Laser.....	72
<i>Antonio Caruso, Niccolò S. Barberio, Dario Giannotti, Francesco Canella, Roberto Aiello, Pasquale Maddaloni, Paolo Laporta, Gianluca Galzerano</i>	
A Large-Area Liquid-Crystal Spatial Light Modulator for Amplitude Modulation of High-Power Infrared Laser Beams	73
<i>N. Monvoisin, O. Mesplede, G. Rouzaud, S. Montant, L. Lamainière, C. Claudet, G. Chériaux, N. Forget, A. Jullien</i>	
Integrated Platform for High Power Quantum Walk Frequency Combs	74
<i>Johannes Fuchsberger, Theodore P. Letsou, Nikola Opacak, Dmitry Kazakov, Benedikt Schwarz, Federico Capasso</i>	
Staggered Phase Flux for Frequency Comb Shaping in Fast Gain Lasers.....	75
<i>Diego Piciocchi, Alexander Dikopoltsev, Ina Heckelmann, Mathieu Bertrand, Mattias Beck, Giacomo Scalari, Jérôme Faist</i>	
High Efficiency Quantum Walk Comb Via Double Waveguide Integration.....	76
<i>Alessio Cargioli, Miguel M. Ballester, Mattias Beck, Jerome Faist</i>	
Actively Mode-Locked Monolithic Semiconductor Laser with a Tunable Repetition Frequency	77
<i>Urban Senica, Michael A. Schreiber, Paolo Micheletti, Mattias Beck, Christian Jirauschek, Jérôme Faist, Giacomo Scalari</i>	
1.55 μm Quantum Dot Lasers with Increased Modal Gain Based on Improved Gain Material with High Size Homogeneity	78
<i>Vikram Khatri, Vitalii Sichkovskiy, Larisa Popilevsky, Yaron Kauffmann, Gadi Eisenstein, Johann Peter Reithmaier</i>	
1550 nm High Power Broad Area Laser with InGaAlAs-MQWs as Active Material and Al-Free Facets.....	79
<i>Niklas Kanold, Martin Moehrle, Martin Schell</i>	
Monolithic 1550 nm Narrow Linewidth Laser by Optical Injection Locking	80
<i>Xiao Sun, Zhibo Li, Yiming Sun, Yupei Wang, Jue Wang, John H. Marsh, Stephen. J. Sweeney, Anthony E. Kelly, Lianping Hou</i>	

Over 1.3 THz Tunable All-Optical Wavelength Conversion with a Feedback-Controlled Multi-Wavelength Laser	81
<i>Pablo Marin-Palomo, Martin Virte</i>	
Selective Filtering and Amplification of THz-Range Optical Signals with an On-Chip Multi-Wavelength DBR Laser	82
<i>Garzan Arda Akin, Martin Virte, Pablo Marin-Palomo</i>	
Four-Wavelength Mode-Locked DFB Laser Using Chirped Sampled Bragg Grating	83
<i>Mohanad Al-Rubaiee, Bocheng Yuan, Yizhe Fan, Simeng Zhu, Yiming Sun, Xiao Sun, John H. Marsh, Stephen J. Sweeney, Lianping Hou</i>	
Heterogeneously Integrated Evanescently Coupled Laser Systems on SiN Emitting in the Near-Infrared Band.....	84
<i>Konstantinos Akritidis, Maximilien Billet, Max Kiewiet, Jan-Philipp Koester, Jörg Fricke, Pietro Della Casa, Hans Wenzel, Markus Weyers, Joost Brouckaert, Pol Van Dorpe, Bart Kuyken</i>	
Low Threshold 1.55- μm -Band Si-Photonics-Based Heterogeneous Integrated Quantum Dot Tunable Laser	85
<i>A. Matsumoto, S. Nakajima, C. H. Cheng, S. Okada, T. Umezawa, N. Yamamoto, K. Akahane</i>	
Design and Fabrication of Transfer-Printable Evanescently Coupled GaAs-Based Amplifier Coupons.....	86
<i>Jan-Philipp Koester, Jörg Fricke, Hans Wenzel, Pietro Della Casa, Konstantinos Akritidis, Maximilien Billet, Max Kiewiet, Joost Brouckaert, Pol Van Dorpe, Bart Kuyken, Andrea Knigge, Markus Weyers</i>	
High-Power Micro-Transfer Printed 796 nm Fabry-Perot Laser	87
<i>Max Kiewiet, Stijn Cuyvers, Maximilien Billet, Kasper Van Gasse, Bart Kuyken</i>	
Monolithically Integrated Dual-Comb Generator Based on a Generic Platform Photonic Integrated Circuit.....	88
<i>Pablo López-Querol, Clara Quevedo-Galán, José Manuel G. Tijero, Ignacio Esquivias, Antonio Pérez-Serrano</i>	
Monolithically Integrated Low Repetition Rate Mode-Locked Lasers	89
<i>Jessica César-Cuello, Alberto Zarzuelo, Robinson C. Guzmán, Guillermo Carpintero</i>	
Advances in Deep Ultraviolet Semiconductor Laser: From Material Challenges to Device Performance.....	90
<i>M. Kushimoto, Z. Zhang, A. Yoshikawa, K. Aoto, Y. Honda, C. Sasaoka, H. Amano</i>	
Demonstration of a BIC Polariton Laser in a GaN Waveguide	91
<i>V. Develay, H. Souissi, I. Septembre, L. Doyennette, C. Brimont, E. Cambril, S. Bouchoule, B. Alloing, J. Zúñiga-Pérez, O. Bahrova, D. Solnyshkov, G. Malpuech, T. Guillet</i>	
Chip-Integrated Ultra-Narrow Linewidth Laser at 640 nm	92
<i>Lisa V. Winkler, Albert Van Rees, Philip P. J. Schrinner, Marcel Hoekman, Ronald Dekker, Adriano R. Do Nascimento, Peter J. M. Van Der Slot, Christian Nölleke, Klaus-J. Boller</i>	
Monolithic Dual-Wavelength DBR Diode Laser at 633 nm Suitable for Raman Spectroscopy in Fluorescent Environments	93
<i>Aghigh Jalehdoost, Kay Sowoidnich, André Müller, David Feise, Katrin Paschke, Bernd Sumpf, Martin Maiwald</i>	

HighLy Collimated Gaussian-Beam Emission of VCSEL in the Visible Red Spectral Range for Sensing and Fiber Applications	94
<i>Michael Jetter, Lena Engel, Farnaz Khamseh, Arina Farsian, Michael Zimmer, Peter Michler</i>	
Low-Power Optical Injection into Suppressed Longitudinal Modes for Wideband Optical Frequency Comb Generation in Gain-Switched Discrete Mode Lasers	95
<i>Daniel Plaza-Vas, María Duque Gijón, Cristina Masoller, Jordi Tiana-Alsina, Íngel Valle, Nathalie Vermeulen, Ana Quirce</i>	
Enhancement of Frequency Comb Bandwidth in Gain-Switched Integrated Semiconductor Lasers Via Mutual Coupling	96
<i>Diarmuid O'Sullivan, John McCarthy, Frank Peters, Bryan Kelleher</i>	
Dual-Wavelength Operation of a VCSEL for Cryogenic Communication	97
<i>Patrik Rajala, Behzad Namvar, Jukka Viheriälä, Teemu Hakkarainen, Heikki Virtanen, Topi Uusitalo, Mircea Guina</i>	
Birefringence-Induced Polarization Dynamics in Multimode Spin-VCSEL.....	98
<i>Uliana Diiankova, Tobias Pusch, Rainer Michalzik, Mariusz Drong, Markus Lindemann, Nils C. Gerhardt, Martin R. Hofmann</i>	
Quasi-PT Symmetry: A Pathway to Better Laser Performance	99
<i>Babak Olyaeefar, Ece Karabey, Enes Seker, Ramy El-Ganainy, Abdullah Demir</i>	
Experimental and Theoretical Investigation of Thermal Crosstalk in RSOA Array.....	100
<i>David Coenen, Huseyin Sar, Negin Golshani, Damien Leech, Hsiao-Lun Wang, Stuart Smyth, Sulakshna Kumari, Filippo Ferraro, Yoojin Ban, Herman Oprins, Joris Van Campenhout</i>	
Electro-Absorber/Modulator Recovery Time for High Energy Pulse Burst Monolithic Mode-Locked Tapered Laser	101
<i>Dmitri Boiko, Severin Oeschger, Patrick Flückiger, Sylvain Boust, Maxime Meghnagi, Tom Vimont, Guillaume Daccord, François Dupont, Eva Izquierdo, Jean-Pierre Legoec, Thomas Cossuet, Michel Garcia, Olivier Parillaud, Michel Krakowski</i>	
Thermal Dynamics and Dimensional Heat Dissipation Analysis in Mid-IR Quantum Cascade Lasers	102
<i>I. Vrubel, E. Cherotchenko, V. Dudelev, D. Mikhailov, D. Chistyakov, A. Babichev, A. Lyutetskiy, S. Slipchenko, N. Pikhtin, A. Gladyshev, D. Papylev, I. Novikov, V. Kuchinskii, L. Karachinskii, A. Egorov, G. Sokolovskii</i>	
High-Temperature Operation of Tuneable 780 nm DBR Lasers for Spectroscopic Applications	103
<i>Heike Christopher, Jörg Fricke, Pietro Della Casa, André Maaßdorf, Hans Wenzel, Andrea Knigge</i>	
Narrow-Linewidth, Fully Integrated Chip-Based Laser System in the Red Spectral Range.....	104
<i>Jovana Nojic, Alexander Eras, Lisa Winkler, Dimitri Mayzlin, Mateus Corato-Zanarella, Matthias Lommel, Christian Nölleke</i>	
Transverse Mode Control and Synchronization in Coupled Broad-Area VCSELs.....	105
<i>Jules Mercadier, Stefan Bittner, Marc Sciamanna</i>	
Space-Qualified Ridge Waveguide Optical Amplifiers for Ultra-Cold Atom Experiments on the ISS	106
<i>Karl Häusler, Jan Baumann, Carsten Netzel, Anna Mogilatenko, Johannes Glaab, Jos E. Boschker, Jörg Fricke, Andre Maaßdorf, Hans Wenzel, Andrea Knigge, Ahmad Bawamia, Andreas Wicht</i>	

Undamped Effective Rabi Frequency Triggers Harmonic Frequency Combs in Ultrafast Semiconductor Laser	107
<i>Carlo Silvestri, Massimo Brambilla, Franco Prati, Mariangela Gioannini, Lorenzo Columbo</i>	
Modeling Dispersion and Cavity Engineering Effects on Mode-Locked Quantum Cascade Laser Operation	108
<i>L. Seitner, M. Schreiber, M. Rinderle, J. Stowasser, M. Haider, C. Jirauschek</i>	
Locking the VCSEL Polarization in the Horizontal and Diagonal Polarization Basis	109
<i>Michael Jetter, Michael Zimmer, Katharina Dahler, Peter Michler</i>	
Power Scaling of Single Frequency 2 μm GaSb-Based VECSEL.....	110
<i>Steffen Adler, Peter Holl, Elke Diwo-Emmer, Andreas Bächle, Marcel Rattunde</i>	
Coupling and Fabrication for Micro-Transfer-Printed O-Band Quantum Dot Lasers on Silicon Nitride Platforms	111
<i>Thi Ngoc Lam Tran, Tom Reep, Max Kiewiet, Arturo Fernandez Gamez, Dongbo Wang, Kasper Van Gasse, Gunther Roelkens, Bart Kuyken</i>	
Highly Stabilized Integrated Frequency Comb Quantum-Dash Laser Via Voltage-Controlled Temperature Feedback Loop	112
<i>Youcef Driouche, Guy Aubin, Abderrahim Ramdane, Kamel Merghem</i>	
Advanced Mid-IR Photonic Integrated Circuits Based on Monolithic Integrated Quantum Cascade Lasers and Detectors and Plasmonics.....	113
<i>B. Hinkov, M. David, G. Marschick, F. Jaeschke, E. Arigliani, X. Gsodam, F. Pilat, A. Schwaighofer, A. Dabrowska, A. Evirgen, S. Pes, B. Schwarz, B. Lendl, G. Strasser</i>	
Quantum Cascade Laser Integration on Photonic Integrated Circuits for Compact Mid-Infrared Sensing	114
<i>Tingting Zhai, Harindra Kumar Kannoja, David Gachet, Geert Van Steenberge, Bart Kuyken</i>	
Widely Tunable 2.1 μm III-V-Silicon Hybrid Integrated Laser Based on a Single Microring Resonator.....	115
<i>Jincheng Wei, Ruijun Wang, Zhengqi Geng, Chengao Yang, Zhichuan Niu, Siyuan Yu</i>	
Miniature Quantum Cascade Surface Emitting Ring Lasers	116
<i>Réka-Eszter Vass, Philipp Täschler, David Stark, Mathieu Bertrand, Emilio Gini, Mattias Beck, Jérôme Faist</i>	
Low-Loss Tunnel Junction Integration in Mid-Infrared VCSELs	117
<i>Andrea Simaz, Gerhard Böhm, Anna Köninger, Mikhail A. Belkin</i>	
Broad Wavelength Band GaSb SLEDs for Mid-IR Optical Coherence Tomography and Spectroscopy	118
<i>Jukka Viheriälä, Ifte Khairul Alam Bhuiyan, Joonas Hilska, Markus Peil, Mircea Guina</i>	
Ring Shaped Lithographic Aperture VCSEL.....	119
<i>Giacomo Graziano, Marc Ganzhorn, Stefano Tirelli, Donato Bonfrate, Martin Spieser, Evgeny Zibik</i>	
Relative Intensity Noise in Multi-Mode VCSELs with and Without Polarization Control: Theory and Experiments	120
<i>Cristina Rimoldi, Marco Novarese, Lorenzo L. Columbo, Sebastian Romero Garcia, Christian Raabe, Mariangela Gioannini</i>	

Estimate of the Nonlinear Coupling Between Circular Eigenstates in a Spin-VCSEL	121
<i>Quentin Le Mignon, Ghaya Baili, Daniel Dolfi, Sophie Bouchoule, Marco Romanelli, Mehdi Alouni</i>	
A Semiconductor Membrane External-Cavity Surface-Emitting Laser (MECSEL) in a Microchip Configuration.....	122
<i>Jakob Hirlinger-Alexander, Michael Scharwaechter, Franzisca Bader, Julius Steck, Matthias Seibold, Marco Werner, Roman Bek, Hermann Kahle</i>	
In-Well Pumped Membrane External-Cavity Surface Emitting Lasers (MECSELs) for Laser Guide Star Applications	123
<i>Trevor Rubin, Mingyang Zhang, Catherine L. Nguyen, Garrett D. Cole, Hermann Kahle, Alexander R. Albrecht</i>	
Towards Red-Emitting VECSELs Based on an Active Grating Waveguide Structure	124
<i>Maxim Leyzner, Peter Gierss, Ana Cutuk, Michael Jetter, Peter Michler, Thomas Graf, Marwan Abdou Ahmed</i>	
Ultrafast Tunable Photonic Integrated Extended-DBR Pockels Laser	125
<i>Anat Siddharth, Simone Bianconi, Rui Ning Wang, Zheru Qiu, Andrey S. Voloshin, Mohammad J. Beryhi, Johann Riemensberger, Tobias J. Kippenberg</i>	
Continuous Wavelength-Sweeping of a Narrow-Linewidth Hybrid-Integrated Extended-Cavity Laser.....	126
<i>Albert Van Rees, Rob Lammerink, Wilson Tsong, Willy Bergsma, Edwin Klein, Dimitri Geskus</i>	
Monolithically Integrated GaAs-Based Ring-Resonator-Coupled Lasers.....	127
<i>Jan-Philipp Koester, Hans Wenzel, Jörg Fricke, Poojitha Sammeta, Olaf Brox, Pietro Della Casa, Andrea Knigge</i>	
Narrow Linewidth GaSb/Si ₃ N ₄ Hybrid Integrated 2 μm DBR Laser.....	128
<i>Samu-Pekka Ojanen, Nouman Zia, Jukka Viheriälä, Eero Koivusalo, Joonas Hilska, Ajwaad Quashef, Anders Wallin, Kalle Hanhijärvi, Thomas Fordell, Mircea Guina</i>	
Low-SWaP, Narrow-Linewidth, and Tunable Laser System for the Next Generation of Quantum Technologies.....	129
<i>Mateus Corato-Zanarella, Matthias Lommel, Dimitri Mayzlin, Jovana Nojic, Alexander Eras, Christian Nölleke, Björn Globisch, Christopher Haimberaer</i>	
Quantum Noise in Nanolasers: A New Approach.....	130
<i>Matias Bundgaard-Nielsen, Jesper Mørk</i>	
A Novel Surface-Emitting Laser Using Coupled InGaAs/GaAs Nano-Ridges on Si: Insights from Cathodoluminescence.....	131
<i>E. M. B. Fahmy, T. Coenen, Z. Ouyang, D. Colucci, J. Van Campenhout, B. Kunert, D. Van Thourhout</i>	
Time Crystals in Active Mode-Locked Lasers	132
<i>J. Yelo-Sarrión, R. Weng, E. R. Koch, J. Batle, J. Javaloyes, S. V. Gurevich</i>	
Spontaneous Synchronization of Transverse Modes in a Quantum-Well Laser	133
<i>Stefan Bittner, Marc Sciamanna</i>	
Efficient 970 nm Ridge Waveguide Lasers for Space-Based Power Beaming Application	134
<i>Seval Arslan, Paul S. Basler, Martin Wilkens, Marko Hübner, Igor P. Marko, Stephen J. Sweeney, Paul Crump</i>	

Improved Compact 1 kW Diode Laser Module Emitting at 780 nm for the Efficient Direct Additive Manufacturing of Aluminium.....	135
<i>M. Wilkens, S. Arslan, M. Hübner, L. Wittenbecher, J. Zender, B. Eppich, D. Martin, P. Della Casa, A. Ginolas, P. S. Basler, N. Lobo-Ploch, M. Rozycki, A. Schulze, U. Tradowsky, A. Knaub, H. Alder, P. Crump</i>	
Wavelength-Stabilized Multi-Active Region DBR Ridge-Waveguide Lasers for High Peak-Power Pulsed Operation	136
<i>H. Christopher, M. Beier, J. Fricke, S. Nozinic, A. Liero, H. Wenzel, A. Knigge</i>	
Confinement of Tamm Modes in the THz Spectral Range	137
<i>Ismael Abdourahamane, Alexis Wietzke, Simon Messelot, Jose Palomo, Solen Coeymans, Clementine Symonds, Jerome Tignon, Sukhdeep Dhillon, Boris Kuhlmeier, Juliette Mangeney</i>	
Direct Near-Field Spacetime Imaging of Phase and Group Velocities of Terahertz Surface Plasmon Polaritons in Graphene	138
<i>Simon Anglhuber, Martin Zizlsperger, Eva A. A. Pogna, Yaroslav A. Gerasimenko, Anastasios D. Koulouklidis, Imke Gronwald, Svenja Nerreter, Leonardo Viti, Miriam S. Vitiello, Rupert Huber, Markus A. Huber</i>	
Observation of Nanoscopic Thermal Expansion in Solids by Echo-Resolved Terahertz Spectroscopy	139
<i>Nicolas S. Beermann, Andreas Gebauer, Savio Fabretti, Wentao Zhang, Tomoki Hiraoka, Hassan A. Hafez, Dmitry Turchinovich</i>	
Volumetric Additive Manufacturing of Hollow-Core Photonic Crystal Fiber Structures for THz Frequencies.....	140
<i>Markus Lippl, Nicolas Couture, Daniel Häupl, David Purschke, Yujie Zhang, Jean-Michel Ménard, Daniel Webber, Nicolas Y. Joly</i>	
Time-Resolved THz Stark Spectroscopy of Molecules in Solution	141
<i>Bong Joo Kang, Egmont J. Rohwer, David Rohrbach, Michele Cascella, Robert J. Stanley, Shi-Xia Liu, Thomas Feurer</i>	
High Average Power Large-Area Photoconductive Emitter at 400 kHz Repetition Rate.....	142
<i>Mohsen Khalili, Yicheng Wang, Stephan Winnerl, Clara J. Saraceno</i>	
Cavity-Enhanced THz Generation Via Optical Rectification of Ytterbium Ultrafast Lasers	143
<i>Francesco Canella, Edoardo Suerra, Dario Giannotti, Mohsen Khalili, Yicheng Wang, Kore Hasse, Sergiy Suntsov, Detlef Kip, Clara Saraceno, Simone Cialdi, Gianluca Galzerano</i>	
Broadband, High-Power and High Repetition Rate Terahertz Time-Domain Spectrometer Based on Organic Crystal MNA	144
<i>S. Mansourzadeh, T. Vogel, A. Omar, M. F. Biggs, E. S.-H. Ho, C. Hoberg, D. J. Michaelis, M. Havenith, J. A. Johnson, C. J. Saraceno</i>	
Effect of Cumulative Gas Hydrodynamics on Two-Colour Air-Plasma Terahertz Sources at High Repetition Rates Up to 100 kHz.....	145
<i>Robin Löscher, Malte C. Schroeder, Tim Vogel, Alan Omar, Adam Hasso, Claudius Hoberg, Martina Havenith, Clara J. Saraceno</i>	
Controlling the Polarization State of Plasma-Induced THz Waves	146
<i>I. Babushkin, V. Vaicaitis, A. Demircan, S. Skupin, L. Bergé, U. Morgner</i>	

Broadband Millimetre Wave Comb Generation Via Laser-Cavity Soliton Microcombs.....	147
<i>L. Peters, A. Cooper, L. Olivieri, A. Cutrona, F. Getman, V. Cecconi, N. Paul, D. Das, M. Rowley, S. T. Chu, B. E. Little, R. Morandotti, D. J. Moss, J. S. Toterogongora, A. Pasquazi, M. Peccianti</i>	
All-Photonic THz Radar System Using Modulator-Based Optical Comb Source and Electro-Optic Detection	148
<i>Isao Morohashi, Norihiko Sekine</i>	
Sensitive Detection of 4 THz Radiation by Nonlinear Upconversion in an Organic Crystal BNA.....	149
<i>A. Vishnuradhan, W. Cui, H. Heydarian, E. K. Yalavarthi, N. Couture, A. Gamouras, J.-M. Ménard</i>	
Terahertz Generation from a Spintronic Emitter Pumped by a Two-Optical-Cycle Cr:ZnS Oscillator	150
<i>Mojtaba Aghakasiri, Daiki Okazaki, Philipp Steinleitner, Wolfgang Schweinberger, Dionysios Potamianos, Yang Gui, Aleksandar Sebesta, Behnam Abbasvand Jahedi, Tom Sebastian Seifert, Tobias Kampfrath, Shigeki Tokita, Ferenc Krausz, Alexander Weigel</i>	
External-Magnetic-Field-Free Spintronic Terahertz High-Field Emitters with One-Dimensional Photonic Crystal Structure.....	151
<i>Zehao Yang, Mingxuan Zhang, Chunyan Geng, Xiaojun Wu</i>	
Enhanced Time-Resolved Terahertz Detection Using a Plasmonic Antenna and a Semiconductor Microstructured Waveguide.....	152
<i>Hesam Heydarian, Aswin Vishnuradhan, David Girard, Ariana Rodríguez, Graham Jerrey Rivers Killaire, Arnaud Weck, Angela Gamouras, Jean-Michel Ménard</i>	
Lamb-Dip Spectroscopy in Rotational Levels of Acetonitrile Molecules Using a Narrow-Linewidth UTC-PD Terahertz Light Source	153
<i>Kohei Eguchi, Koichiro Tanaka</i>	
Terahertz Phase Imaging from a Sequence of Diffraction Patterns	154
<i>Pitambar Mukherjee, Vivek Kumar, Frédéric Fauquet, Sylvain Gigan, Patrick Mounaix</i>	
Demethylation of Cancer DNAs by Resonant High-Power Terahertz Irradiation	155
<i>Chaeyoon Kim, Seung Won Jin, Seong Cheol Lee, Donghak Oh, Soojeong Baek, Bumki Min, Hee-Jin Yang, Joo-Hiuk Son, Fabian Rotermund</i>	
On-Off-Keying Data Transmission Achieved with Terahertz-To-Optical Carrier Conversion Using Optical Comb and Electro-Optic Polymer Modulator	156
<i>Y. Matsumura, H. Kishikawa, Y. Tokizane, Y. Okamura, N. Kuse, E. Hase, J. Fujikata, M. Haraguchi, T. Kaji, A. Otomo, I. Morohashi, A. Kanno, S. Hisatake, T. Yasui</i>	
Frequency-Resolved THz Thermometry of Nanoparticle Solutions	157
<i>Tim Vogel, Fabio Novelli, Clara J. Saraceno</i>	
A Modulator for Generating High-Energy Terahertz Rate Pulse Trains.....	158
<i>Christian Rentschler, Nicholas H. Matlis, Umit Demirbas, Zhelin Zhang, Mikhail Pergament, Franz X. Kärtner</i>	
Compact, Thermoelectrically Cooled Surface Emitting THz QCL Sources.....	159
<i>Sebastian Gloor, Adrian Weisenhorn, Léo Hetier, Urban Senica, Richard Maulini, Mattias Beck, Jérôme Faist, Giacomo Scalari</i>	

Two-Color Laser Emission from Optically Cascaded Intersubband Transitions from 1.3 THz to 2 THz and Above 3 THz.....	160
<i>Marco Raffa, Valerio Digiorgio, Sebastian Gloor, Mattias Beck, Jérôme Faist, Giacomo Scalari</i>	
Coupling Measurements in Terahertz Quantum Cascade Random Lasers	161
<i>A. Invernici, M. Jaidl, Marie C. Ertl, D. Theiner, L. A. Grandits, M. Giparakis, A. M. Andrews, J. Darmo, K. Unterrainer</i>	
High-Power Coherent Emission from Arrays of Resonant-Tunneling-Diode (RTD) Oscillators.....	162
<i>Fanqi Meng, Zhenling Tang, Petr Ourednik, Jahnabi Hazarika, Michael Feiginov, Safumi Suzuki, Hartmut G. Roskos</i>	
Photonic Integrated Frequency-Domain Terahertz Spectrometer	163
<i>Lauri Schwenson, Simon Nellen, Florian Walter, Shahram Keyvaninia, Lars Liebermeister, Martin Schell, Robert B. Kohlhaas</i>	
Single-Chip for Terahertz Emission and Detection on Thin-Film Lithium Niobate Platform.....	164
<i>Xuhui Cao, Yazan Lampert, Shima Rajabali, Leticia Magalhaes, Amirhassan Shams-Ansari, Alessandro Tomasino, Marko Loncar, Ileana-Cristina Benea-Chelms</i>	
Active Inverse-Designed WDM Integrated with Surface Emitting THz Quantum Cascade Laser	165
<i>Valerio Digiorgio, Urban Senica, Paolo Micheletti, Mattias Beck, Jérôme Faist, Giacomo Scalari</i>	
Field-Resolved Detection of Broadband Terahertz Pulses with Thin-Film Lithium Niobate Integrated Microring Resonators	166
<i>Alessandro Tomasino, Jiawen Liu, Ileana-Cristina Benea-Chelms</i>	
Phased Antenna Arrays Beyond 1 THz from Lithium Niobate Photonic Circuits.....	167
<i>Yazan Lampert, Shima Rajabali, Xuhui Cao, Amirhassan Shams-Ansari, Alessandro Tomasino, Aleksei Gaier, Leticia Magalhaes, Marko Loncar, Ileana-Cristina Benea-Chelms</i>	
Terahertz Spatiotemporal Imaging by Multiangle Beam Projection	168
<i>Vivek Kumar, Pitambar Mukherjee, Lorenzo Valzania, Amaury Badon, Patrick Mounaix, Sylvain Gigan</i>	
Photo-Mixing of Chirped Ultra-Short Optical Pulses at 1 μm for the Generation of Broadband Long THz Pulses.....	169
<i>Gabriel Taton, Frederic Fauquet, Ilyes Betka, Jean-Paul Guillet, Frederic Darracq, Patrick Mounaix, Damien Bigourd</i>	
Ultrafast Dynamic Response of Nanoscale 2D Semiconductor InSe	170
<i>Mingcong Dai, Zijian Zhang, Xiaojun Wu</i>	
Route to 4-Dimensional Terahertz Near-Field Tomography.....	171
<i>Abhishek Paul, Akash Dominic Thomas, Luana Olivieri, Luke Peters, Vittorio Ceconi, Juan Sebastian Toterogongora, Alessia Pasquazi, Marco Peccianti</i>	
Strong-Field 59-MW Terahertz Source Based on High-Repetition-Rate Femtosecond Yb: YAG Laser.....	172
<i>Deyin Kong, Xiaojun Wu</i>	
Investigation of Plasmonic Mode Coupling in Three-Dimensional Metallic Wire Terahertz Metamaterials	173
<i>Simon Rossel, Wentao Zhang, Hassan A. Hafez, Savio Fabretti, Dmitry Turchinovich</i>	

Photonic Broadband Characterisation of a 415 GHz Filter	174
<i>Sebastian Mueller, Timo Noack, Martin Wittmann, Nico Vieweg, Gerd Hechtfischer, Thomas Puppe</i>	
Progress Towards a Highly Efficient, Compact, Scalable THz Pulse Source.....	175
<i>Gergo Krizsán, Bálint Jurasits, Gábor Almási, János Hebling</i>	
Mamyshev Oscillator-Pumped Organic Crystals for Single-Pulse THz Generation	176
<i>Dario Giannotti, Francesco Canella, Riccardo Gotti, Sara Pizzurro, Lorenzo Mosesso, Stefano Lupi, Federico Pirzio, Antonio Agnesi, Gianluca Galzerano</i>	
Dual Non-Diffractive Beam Generation Via Spin-And-Frequency-Multiplexed All-Dielectric Metasurfaces at Terahertz Frequencies.....	177
<i>Chunyu Liu, Fan Huang, Yanfeng Li, Quan Xu, Jianqiang Gu, Jianguang Han</i>	
Non-Destructive Dielectric Characterization of Secondary Mill Scale on Hot-Rolled Steel	178
<i>Min Zhai, Wenlong He, Alexandre Locquet, D. S. Citrin</i>	
Highly-Stable Laser-Driven Single-Cycle Intense Terahertz Source with 100 kHz Repetition Rate	179
<i>Alexandre Fahy, Léo Guiramand, Anna Martinez, Said Idlahcen, Jonathan Houard, Thomas Godin, Angela Vella, Ammar Hideur</i>	
Linearity of Fast and Highly Sensitive LiTaO ₃ Pyroelectric Detectors in the Terahertz Range.....	180
<i>Ashutosh Sharma, Vineet Gupta, Joon-Gon Son, Abhishek Gupta, János Bohus, József A. Fülöp, Thomas Gebert</i>	
Widely Tunable Optical Frequency Comb Generator on a Generic InP Platform	181
<i>Y Durvasa Gupta, Stephen Cardenas Giraldo, Patrick Runge, Martin Schell</i>	
Optimizing Terahertz Driven Electron Acceleration Efficiency Within a Ring-Like Paraboloid Vacuum Accelerator.....	182
<i>László Pálfalvi, Zerihun T. Godana, György Tóth, János Heblin</i>	
Nonlinear Nanophotonics in Thin-Film Lithium Niobate: How Many Octaves, How Few Photons?	183
<i>Martin Fejer</i>	
Monolithic Millimeter Wave Generation and Detection from Resonant Lithium Niobate Circuits	184
<i>Jiawen Liu, Tianyi Zhang, Ghalia Dhaoui, Yazan Lampert, Aleksei Gaier, Ileana-Cristina Benea-Chelms</i>	
Broadband Mid-Infrared Generation at mW-Power Level in Periodically Poled Lithium Niobate Waveguides.....	185
<i>Riccardo Brameri, Valerio Vitali, Ludovic Gauthier-Manuel, Cosimo Lacava, Federico Pirzio, Antoniangelo Agnesi, Mathieu Chauvet, Ilaria Cristiani</i>	
Backward Wave Second-Harmonic Generation in X-Cut Thin Film Lithium Niobate	186
<i>Ozan Yakar, Yesim Koyaz, Furkan Ayhan, Victor Brasch, Guillermo Villanueva, Camille-Sophie Brès</i>	
All-Optical Poling of Ultralong Silicon Nitride Spirals	187
<i>Ozan Yakar, Matthieu Borello, Xinru Ji, Tobias J. Kippenberg, Camille-Sophie Brès</i>	
GaN PIC for Fceo Detection at Low Pulse Energy	188
<i>Andrea Volpini, Ian Rousseau, Christopher Bonzon, Steve Lecomte, Davide Grassani</i>	
Colloidal Self-Assembly as Templating for 3D Second-Harmonic Photonic Crystals.....	189
<i>Thomas Kainz, Helena Weigand, Rachel Grange, Ullrich Steiner, Viola Vogler-Neuling</i>	

Nonlinear Metafiber: Unlocking Novel Pathway for Ultrafast Supercontinuum Generation in Small-Core Suspended Core Fibers.....	190
<i>Shahrzad Hosseinabadi, Johannes Hofmann, Torsten Wieduwilt, Xue Qi, Michael H. Frosz, Markus A. Schmidt</i>	
Temporal Reflection in a Nonlinear Photonic Integrated Circuit	191
<i>C. Khallouf, L. Sader, A. Bougaud, B. Little, S. T. Chu, D. J. Moss, R. Morandotti, B. Wetzel, G. P. Agrawal, J. M. Dudley, T. Sylvestre</i>	
Extending the Supercontinuum Spectrum in Fully Etched Thick Aluminum Nitride Waveguides	192
<i>Samantha Sbarra, Samuele Brunetta, Jean-François Carlin, Nicolas Grandjean, Raphaël Butté, Camille-Sophie Brès</i>	
Supercontinua in Dispersion Engineered Gallium Nitride Waveguides	193
<i>Weichen Fan, Markus Ludwig, Ian Rousseau, Ivo Arabadzhiev, Bastian Ruhnke, Thibault Wildi, Tobias Herr</i>	
Addressing Thermal Instability in Accessing Dissipative Kerr Solitons in AlGaAs-On-Insulator Microresonators.....	194
<i>Yang Liu, Yueguang Zhou, Yanjing Zhao, Chaochao Ye, Xinda Lu, Yi Zheng, Leif Katsuo Oxenløwe, Kresten Yvind, Minhao Pu</i>	
Self-Healing of Pulse Drop-Outs in Harmonically Mode-Locked Soliton Fiber Laser Through Satellite Pulse Generation.....	195
<i>H. Lin, X. Wang, B. Wang, X. Zhang, Q. Huang, W. He, M. Pang</i>	
Oscillatory Central-Frequency Pulling in Self-Starting Dynamics of NPR-Based Mode-Locked Soliton Fiber Laser	196
<i>Qi Huang, Yu Jiang, Xintong Zhang, Benhai Wang, Xiacong Wang, Wenbin He, Meng Pang</i>	
Sideband Injection Locking of a Laser Cavity-Soliton.....	197
<i>Andrew Cooper, Antonio Cutrona, Nitish Paul, Fedor Getman, Sai T. Chu, Brent E. Little, Roberto Morandotti, David J. Moss, Marco Peccianti, Alessia Pasquazi</i>	
Spontaneous Symmetry Breaking of Cavity Solitons in Coupled Resonators	198
<i>Alekhya Ghosh, Arghadeep Pal, Lewis Hill, Haochen Yan, Gian-Luca Oppo, Pascal Del'Haye</i>	
Widely Tunable Kerr Parametric Oscillation in AlGaAs-On-Insulator Microresonators	199
<i>Chaochao Ye, Yanjing Zhao, Yang Liu, Yi Zheng, Kresten Yvind, Minhao Pu</i>	
Waveguide-Based Optical Parametric Chirped-Pulse Oscillator.....	200
<i>Ming Gao, Maximilian Timmerkamp, Carsten Fallnich</i>	
Widely Tunable All-Fiber Optical Parametric Oscillator Seeded by Ultrashort Pulses at Fixed Central Wavelength	201
<i>Cassia Corso, Bartosz Fabjanowicz, Agnieszka Jamrozik, Mateusz Pielach, Yuriy Stepanenko, Katarzyna Krupa</i>	
Dual-Wavelength Optical Parametric Oscillator Based on Birefringent Silicon Nitride Waveguide	202
<i>Maximilian Timmerkamp, Ming Gao, Carsten Fallnich</i>	
Deep-Infrared Picosecond Optical Parametric Oscillator Based on CdSiP ₂ Delivering 190 mW of Average Power at 6.2 μm	203
<i>Bhanu Chauhan, Kiran Kp, K. T. Zawilski, P. G. Schunemann, M. Ebrahim-Zadeh, S. Chaitanya Kumar</i>	

Backward Wave Optical Parametric Oscillator Pumped by a Bessel Beam	204
<i>Tim Julian Wörmann, Antoine Zheng, Andrius Zukauskas, Valdas Pasiskevicius</i>	
SWIR Upconversion Quad-Detector Using an Array of PPLN Waveguides and SNSPDs	205
<i>Rex H. S. Bannerman, Noelia Palomar Davidson, Paolo L. Mennea, Glenn M. Churchill, Corin B. E. Gawith, Peter G. R. Smith</i>	
Multi-GHz Mid-IR Source Based on Continuous-Wave Parametric Amplification in a Femtosecond OPO	206
<i>Anirban Ghosh, Niladri Das, S. Chaitanya Kumar, Kavita Devi, G. K. Samanta</i>	
High-Precision Mid-Infrared Wavelength Measurement Via Waveguide-Based MIR-To-NIR Upconversion.....	207
<i>Jachin Kunz, Sebastian Wolf, Frank Kühnemann, Florian Karlewski, Peter Federsel, Lewis Wright, Corin Gawith</i>	
Raman-Enhanced Beam Self-Cleaning with Femtosecond Pulse Pumping at 1.56 μm	208
<i>Sikai Chen, Jinhui Yuan, Hong-Guang Duan, Chao Mei</i>	
Theoretical Model of Laser-Driven Proton Acceleration Via Hybrid Scheme Based on KPSI J-KAREN-P 1-PW Laser.....	209
<i>Keng-Ju Lee, Yao-Li Liu, Shivam Gupta, S. Isayama, Shih-Hung Chen, Yasuhiro Kuramitsu</i>	
Tunable Low-Noise Photonic Microwave Synthesizer Based on a Polarization Multiplexing Fiber Brillouin Cavity	210
<i>Yuyan Chen, Yihan Li</i>	
Odd- And Even-Order Brillouin Comb Generation for RF Communications	211
<i>Sharashti Saxena, Harsh Vaid, Rajveer Dhawan, Amol Choudhary</i>	
Electrical Waveform Shaping for Flat Band Tunable Brillouin Filters.....	212
<i>Kamran Afroz, Deeksha Jachpure, Amol Choudhary</i>	
Generalized Heterodyne Interferometry in Kerr Materials.....	213
<i>Arnaud Rogemont, Rajath Sawant, Aurélien Coillet, Benoit Cluzel</i>	
Background-Free Stimulated Raman Microscopy with a Broadband Frequency-Modulation Scheme	214
<i>Luca Genchi, Sergey P. Laptinok, Carlo Liberale</i>	
A Novel Simple Technique to Measure the Nonlinear Coefficient of Optical Fibres Using a Coherent Receiver	215
<i>Laurent Bramerie, Mathilde Gay, Simon Lévêque, Anaëlle Maho, Michel Joindot, Thierry Chartier</i>	
Mid-Infrared Wavelength Generation Via Intermodal Four-Wave Mixing in Thin-Film LiNbO ₃ Waveguides.....	216
<i>Anna Pennoni, Valerio Vitali, Ilaria Cristiani, Cosimo Lacava</i>	
Optical Near-To-Eye Display Based on Nonlinear Mixing	217
<i>Peter G. R. Smith, Goronwy Tawy, Corin B. E. Gawith, Rex H. Bannerman, Glenn Churchill, James C. Gates</i>	
Nonlinear Optical Properties of CdSiP ₂ Crystal at 1 μm	218
<i>Kiran Kp, Dibakar Pal, Bhanu Chauhan, K. T. Zawilski, P. G. Schunemann, M. Ebrahim-Zadeh, S. Chaitanya Kumar</i>	

Light Dynamics in Twin Microresonators with Tunable Coupling	219
<i>Arghadeep Pal, Alekhya Ghosh, Shuangyou Zhang, Lewis Hill, Haochen Yan, Hao Zhang, Toby Bi, Abdullah Alabbadi, Pascal Del'Haye</i>	
Exploring Dual-Phonon Lasing in a Two-Mode Optomechanical System	220
<i>Raúl Ortiz, Carlos Mas Arabí, Carles Milián, Alejandro Martínez</i>	
Design of Artificial Nonlinear Materials for Plasmonic Electro-Optic Modulators	221
<i>Killian Keller, Marco Dober, Joel Winiger, Arnaud Schneuwly, Michael Doderer, Michael Baumann, Juerg Leuthold</i>	
Innovative Uses of Stochastic Photonic Sources	222
<i>Jean-Christophe Delaanes, Jérôme Lhermite, Nicolas Valero, Guillaume Walter, Marie Zambelli, Guillaume Duchateau, Denis Marion</i>	
Evaluation of the Pressure Sensing Capabilities for Pure Radial Acoustic Mode Exited by Optomechanical Interaction in SMF-28 Optical Fiber	223
<i>C. A. Álvarez-Ocampo, A. S. Paterno, M. Delgado-Pinar, A. Diez, J. L. Cruz, M. V. Andrés</i>	
High-Speed Up-Conversion-Based Mid-Infrared Line-Scanner at Room Temperature.....	224
<i>Tobias Schiby, Søren M. M. Friis, Elena Fedorova, Lasse Høgstedt</i>	
Mid-Infrared-To-Telecom Wavelength Conversion Via Four-Wave Mixing in a Silicon Core Fibre.....	225
<i>Y. Mu, W. Fan, M. Huang, T. Chen, C. M. Harvey, M. Fokine, A. C. Peacock</i>	
Mid-Infrared Raman-Enhanced Four-Wave Mixing in Silicon Waveguides	226
<i>T. Chen, M. Huang, S. Sun, C. Stirling, C. Mitchell, M. Nedeljkovic, G. Z. Mashanovich, A. C. Peacock</i>	
Spatially Resolved Pressure Measurement of Antiresonant Hollow-Core Fibres Using Nonlinear Optics	227
<i>Mitchell Gerrard, Seyed Mohammad Abokhamis Mousavi, Radan Slavik, Peter Horak</i>	
Two-Color Femtosecond Source at 930 nm and 1100 nm for Two-Photon Fluorescence Microscopy	228
<i>Hao Zhang, Aimin Wang, Yizhou Liu, Lishuang Feng</i>	
Flexible Platicon Generation Via Random Backscattering in Ultra-High-Q Microresonators	229
<i>Haoyang Tan, Yi Zheng, Kresten Yvind, Minhao Pu</i>	
Advancing Remote Sensing Technology Through Long-Wave Infrared Photonic Chaos	230
<i>Sara Zamanga, Thomas Poletti, Frédéric Grillot</i>	
Ultra-Low Noise, 80 W Laser System at 532 Nm: Enabling Titanium-Sapphire Pumping and Advanced Semiconductor Inspection with Superior Noise Performance	231
<i>Marcel Holtz, Simon Reinisch, Harald Rossmeier, Pierre Laygue, Konstantinos Simeonidis, Matthias Scholz</i>	
A Ready-To-Use Compact Light Engine for Quantum Microscopy.....	232
<i>Vasile-Laurentiu Dosan, Alek Lagarrigue, Josué Ricardo Lóon Torres, Adrià Sansa Perna, Dobryna Zalvidea, Markus Gräfe, Valerio Flavio Gili, Oliver De Vries</i>	
Temporal Dynamics of Fiber Optical Poling	233
<i>Umberto Minoni, Jose Manuel Chavez Boggio, Kassahun Mamuye Tesfaye, Daniele Modotto</i>	
Quiet Point Dynamics in Photonic Molecule Microcombs	234
<i>Krishna Twayana, Marcello Girardi, Victor Torres-Company</i>	

Developing Zn-Indiffused MgO-Doped PPLN Ridge Waveguides for Type-II Telecom Photon Pair Production	235
<i>Peter Iveson, Goronwy Tawy, Glenn M. Churchill, Paolo L. Mennea, Rex H. S. Bannerman, Lewis D. Wright, Peter G. R. Smith, James C. Gates, Corin B. E. Gawith</i>	
Enhancing Scalability and Efficiency of Self-Phase Modulation-Enabled Spectral Selection	236
<i>Shih-Hsuan Chia, Yu-Wei Chen</i>	
Quantum, Nonlinear, and Nano Optics Meet.....	237
<i>M. V. Chekhova</i>	
Simultaneous Frequency Conversion and Spectral-Temporal Shaping of Single-Photon Pulses.....	238
<i>Michal Mikolajczyk, Ali Golestani, Rex H. S. Bannerman, James C. Gates, Peter G. R. Smith, Michal Karpinski</i>	
Methane Detection Using Single-Photon Upconversion in a PPLN Waveguide.....	239
<i>Ruaridh Smith, Imogen Morland, Lewis Wright, Krish Pandiyan, Andrew Weld, Xiao Ai, Arthur Cardoso, John Rarity, Corin Gawith, Loyd McKnight</i>	
Quasi-Phase Matching of Third-Order Nonlinear Processes by Direct Laser Writing	240
<i>Vincent Fortin, Mathis Carpentier, Lionel Canioni, Thierry Cardinal, Philippe Balcou, Jérôme Lhermite, Yannick Petit, Jean-Christophe Delagnes</i>	
Counterpropagating Non-Degenerate Frequency Up-Conversion in X-Cut Periodically Poled LiNbO3 Nanophotonic Wires.....	241
<i>Halvor R. Fergestad, Daiheng Fu, Vaishali B. Adya, Katia Gallo</i>	
Suppressing Parasitic Nonlinear Processes in Frequency-Degenerate Photon Pairs Emission in Layer-Poled TFLN Waveguides	242
<i>Olivia Hefti, Enrico Melani, Marco Clementi, Jean-Etienne Tremblay, Andrea Volpini, Yesim Koyaz, Homa Zarebidaki, Ivan Prieto, Olivier Dubochet, Charles Caër, Daniele Bajoni, Hamed Sattari, Camille Sophie Brès, Matteo Galli, Davide Grassani</i>	
Creation of Photon States with Negative Wigner Function with Tunable N-Level EIT Processes	243
<i>S. Ghosh, A. Gorlach, C. Mechel, M. V. Chekhova, I. Kaminer, G. Eisenstein</i>	
Intermodal-Vectorial Four-Wave Mixing in Few-Mode Fibers for Generation of Photon Pairs with Spatial-Polarization-Frequency Hybrid Entanglement.....	244
<i>Andrzej Gawlik, Marta Bernas, Kinga Zolnacz, Karol Tarnowski</i>	
Synthetic Off-Axis Quantum Holography with Undetected Light	245
<i>Sebastian Töpfer, Sergio Tovar, Josué R. León Torres, Daniel Derr, Enno Giese, Jorge Fuenzalida, Markus Gräfe</i>	
Milliwatt-Level On-Chip Green Light Source Via Second-Harmonic Generation in Silicon Nitride Microresonators.....	246
<i>Gang Wang, Ozan Yakar, Xinru Ji, Marco Clementi, Ji Zhou, Christian Lafforgue, Jiaye Wu, Jianqi Hu, Tobias J. Kippenberg, Camille-Sophie Brès</i>	
Optical Skyrmion Driven Second Harmonic Generation	247
<i>Sushanta Kumar Pal, Allam Srinivasa Rao, Hiroko Yokota, Takashige Omatsu</i>	
Broadband Multiphoton Microscopy for Nonlinear Spectroscopy of Harmonic Nanoparticles.....	248
<i>Tianhao Guo, Volodymyr Multian, Kevin Bredillet, Ameni Dhouib, Laura Vittadello, Yannick Mugnier, Ronan Le Dantec</i>	

Full Vectorial Description of Second Harmonic Generation in Silicon Nitride Waveguides Integrated with MoS ₂ Monolayers	249
<i>Nathalia B. Tomazio, Mohd Rehan, Alisson R. Cadore, Daniel F. Londono-Giraldo, Daniel A. Matos, Gustavo S. Wiederhecker, Christiano J. S. De Matos</i>	
Femtosecond Photorefractive Optical Transient Detection in the Blue	250
<i>Sukeert, S. Chaitanya Kumar, P. G. Schunemann, M. Ebrahim-Zadeh, A. Esteban-Martin</i>	
Optoacoustic Building Blocks for Photonic Neural Networks	251
<i>Jesús Humberto Marines Cabello, Grigorii Slinkov, Olivia Saffer, Niklas Braband, Andreas Geilen, Steven Becker, Birgit Stiller</i>	
Laser-Drawn Silicon Core Fibres for Raman Amplification and Wavelength Conversion	252
<i>M. Huang, A. N. Ghosh, T. Chen, L. Xu, C. M. Harvey, M. Fokine, A. C. Peacock</i>	
Generation of Cascaded Raman Vortex Lasers Using Diamond	253
<i>Hui Chen, Zhihan Zhu, Takashige Omatu, Richard P. Mildren, Zhenxu Bai</i>	
Generation of Intense Femtosecond Pulses Beyond 3000 nm Using OPCPA Combined with Transient Rotational SRS in Hydrogen	254
<i>Auguste Cernekyte, Augustinas Petrukenas, Paulius Mackonis, Aleksej M. Rodin</i>	
Experimental Study of the Structural Dependence of Stimulated Raman-Like Scattering in Solid-Core Photonic Crystal Fibres.....	255
<i>R. Lv, Y. Zi, B. Wang, H. Lin, G. Ji, J. Huang, X. Jiang, W. He, M. Pang</i>	
Ultrafast Cross-Switching of Long Wavelength Near-Infrared Pulses in Dual-Core Soft Glass Fibers for Time Gating of Spectroscopy Signals	256
<i>Sarah Pulikottil Alex, Mateusz Winkowski, Mattia Longobucco, Edgar Kaksis, Ryszard Buczynski, Audrius Pugžlys, Andrius Baltuška, Ignác Bugár</i>	
All-Optical Self-Switching of 1560nm Femtosecond Pulses in Highly Nonlinear Soft Glass Multicore Fiber.....	257
<i>Mateusz Winkowski, Mattia Longobucco, Dariusz Pysz, Ireneusz Kujawa, Ryszard Buczynski, Ignac Bugar</i>	
Continuously Tunable Frequency Conversion in Germanium Doped Photonic Crystal Fiber Pumped Near Degeneracy	258
<i>Leah R. Murphy, Mateusz J. Olszewski, Petros Androvitsaneas, Miguel Alvarez Perez, Will A. M. Smith, Anthony Bennett, Peter J. Mosley, Alex O. C. Davis</i>	
High-Efficiency Interrogator for FSBS Mechanical Vibrations in Optical Fibers.....	259
<i>Anna I. Garrigues-Navarro, Martina Delgado-Pinar, Antonio Díez, Miguel V. Andrés</i>	
Experimental Observation of of Complex Dark-Bright Soliton Coexisting Regimes in Mode-Locked Fiber Lasers	260
<i>Subrata Manna, Nithyanandan Kanagaraj</i>	
Dual-Comb Generation in Monolithic High-Q Fiber Fabry-Perot Resonators.....	261
<i>Thomas Bunel, Antonio Cutrona, Debanuj Chatterjee, Julien Lumeau, Antonin Moreau, Alexis Bougaud, Manal Arbati, Benjamin Wetzel, Alessia Pasquazi, Matteo Conforti, Arnaud Mussot</i>	
Harnessing Electro-Optic Modulation and On-Chip Temporal Interleaving Towards Versatile Frequency Comb Generation.....	262
<i>M. Arbati, A. Bougaud, B. P. Chaves, T. Bunel, S. Février, B. Little, S. T. Chu, D. J. Moss, R. Morandotti, A. Mussot, B. Wetzel</i>	

Generalized Theory of Multicolor Microcombs	263
<i>Carlo Silvestri, Justin Widjaja, Austin Lin, C. Martijn De Sterke, Antoine F. J. Runge</i>	
Phase Noise Reduction of an Electro-Optic Dual Comb Source with a Twisted Multicore Fiber.....	264
<i>Debanuj Chatterjee, Alexandre Parriaux, Géraud Bowmans, Damien Labat, Andy Cassez, Arnaud Mussot</i>	
20-GHz Structured Optical Frequency Combs Via Temporal and Spatial Modulation	265
<i>Ziang Xiao, Pengxiang Wang, Changqing Li, Gang Xu</i>	
Rapid Tuning of Optical Delay Lines Via Optical Phase Amplification in a Silicon Photonic Four-Wave Mixing Interferometer	266
<i>Yuanfei Zhang, Honghui Zhang, Zunyue Zhang, Ziyue Zhang, Hon Ki Tsang, Chester Shu</i>	
Ultrafast Dynamics in Semiconductor Nanocavities with Deep Sub-Wavelength Confinement of Light	267
<i>Gaoneng Dong, Ali Nawaz Babar, Rasmus Ellebæk Christiansen, Søren Engelberth Hansen, Søren Stobbe, Yi Yu, Jesper Mørk</i>	
Towards Integrated on-Chip Liquid Sensing Based on Correlated Photons.....	268
<i>Joschka Schöner, Chiara Lindner, Simon Herr, Frank Kühnemann, Ingo Breunig</i>	
High-Power Optical Parametric Oscillators in Silicon Nitride.....	269
<i>Yi Sun, Fuchuan Lei, Yan Gao, Victor Torres-Company</i>	
Coherent Control and Enhanced Parametric Gain by Dual-Beam Pumping of 2D Nonlinear Photonic Crystals.....	270
<i>Dena K. Wibowo, Daniel Qvarngård, Giulio Foletto, Vaishali B. Adya, Katia Gallo</i>	
Spectral Translation of Optical Frequency Combs with Optical Parametric Oscillation.....	271
<i>David A. Long, Jordan R. Stone, Garrett C. Mathews, Carl Mathurin, Matthew J. Cich, Augustine Frymire, Gregory B. Rieker, Kartik Srinivasan, Adam T. Heiniger</i>	
Wavelength and Linewidth Stability of a Nearly Degenerate Backward Wave Optical Parametric Oscillator in the Nanosecond Regime	272
<i>Antoine Zheng, Jean-Baptiste Dherbecourt, Jean-Michel Melkonian, Antoine Godard, Andrius Zukauskas, Valdas Pasiskevicius, Myriam Raybaut</i>	
Dynamics and Stability of On-Chip Dual-Pumped Degenerate Optical Parametric Oscillation.....	273
<i>Luca O. Trinchão, Eduardo S. Gonçalves, Luiz Peres, Miguel Nienstedt, Paulo F. Jarschel, Nathalia B. Tomazio, Thiago P. M. Alegre, Gustavo S. Wiederhecker</i>	
Print-And-Draw: From 3D-Printed Fused Silica Preforms to Microstructured Hollow-Core Optical Fibres.....	274
<i>Azim-Onur Yazici, Thomas Stelzer, Patrick Risch, Frederik Kotz-Helmer, Michael H. Frosz</i>	
Drill-And-Draw: Microstructured Hollow-Core Optical Fibres from Laser-Drilled Fused Silica Preforms	275
<i>Michael H. Frosz, Thomas Stelzer, Linda Uta, Dominik Esser</i>	
Measurement of Radiation-Induced Attenuation in Visible-Guiding Hollow Core Optical Fibres	276
<i>Hans Christian H. Mulvad, Ian A. Davidson, Thomas W. Kelly, Jing Meng, Konstantin Vidiajev, Tim Hoad, Victoria Smith, Taraneh B. Moghim, Austin Taranta, Yongmin Jung, Francesco Poletti, Natalie V. Wheeler</i>	

Composite Fibers Made of Glass with Embedded Yb ³⁺ Doped Crystals	277
<i>Natalia Vakula, Matiss Bardins, Khaldoon Nasser, Catherine Boussard-Plédel, Johann Troles, Wilfried Blanc, Laeticia Petit</i>	
Fabrication of Precise Fiber Bragg Grating Filters for Astronomy	278
<i>Xijie Luo, Aashia Rahman, Anna Maria Weiß, Kalaga Madhav, Martin M. Roth</i>	
Gas Flow Modelling of Hollow-Core Optical Fibre Evacuation Through Laser-Machined Channels in the Cladding	279
<i>Peter Horak, Kavitha Srinivasan, Radan Slavik, Natalie V. Wheeler</i>	
Mode Counting in Multimode Anti-Resonant Hollow Core Fibres.....	280
<i>Robbie Mears, Kerrienne Harrington, James M Stone, William J Wadsworth, Tim A Birks</i>	
Anti-Resonant Hollow Core Optical Fibres for the Vacuum-Ultraviolet.....	281
<i>Robbie Mears, Dmitry Vorobiev, Kerrienne Harrington, Briana Indahl, James M Stone, Brian Fleming, Tim A Birks, William J Wadsworth</i>	
Identification and Investigation of the Various Contributions to Confinement Loss in Hollow-Core Tube Lattice Fibers.....	282
<i>Federico Melli, Kostiantyn Vasko, Lorenzo Rosa, Fetah Benabid, Luca Vincetti</i>	
Transmission Bandwidth Enlargement with Elliptical Cladding Elements in Hollow Core Inhibited Coupling Fibers	283
<i>Federico Melli, Nedjem Eddine Merabet, Kostiantyn Vasko, Lorenzo Rosa, Fetah Benabid, Luca Vincetti</i>	
Twisted Anti-Resonant Hollow-Core Fiber as a Broadband Filter for the Sign of the Topological Charge	284
<i>Christof Helfrich, Michael H. Frosz, Francesco Tani</i>	
And the Little Prince Said: If You Please, Draw Me an Optical Fiber with Nanoparticles!	285
<i>Wilfried Blanc, Floriane Pellerin, Christelle Guillermier, Isabelle Martin, Hughes François-Saint-Cyr, Philippe Le Coustumer, Martiane Cabié, Thomas Neisius, Franck Pigeonneau, Matthieu Bellec, John Ballato</i>	
Fluorescence Properties of Ce-Doped Fiber and Glass	286
<i>Amit Yadav, Diana Galiakhmetova, Florian Lindner, Jörg Bierlich, Katrin Wondraczek, Owen McGann, Edik Rafailov</i>	
Wavelength Division Multiplexing in the Mid-Infrared Via Fluoride Optical Fibers.....	287
<i>Francesco Anelli, Boris Perminov, Andrea Annunziato, Solenn Cozic, Jean Letourneur, Maria Chernysheva, Francesco Prudenzano</i>	
Silica Optical Fiber with a Ring-Shaped Active Layer Doped with Thulium Ions.....	288
<i>Krzysztof Markowski, Piotr Miluski, Marcin Kochanowicz, Marek Lodzinski, Magdalena Lesniak, Dominik Dorosz, Marta Kuwik, Wojciech A. Pisarski, Joanna Pisarska, Jan Dorosz</i>	
Photosensitivity of Polypropylene No-Core Optical Fibers Using 248nm Laser Radiation.....	289
<i>Ivan Chapalo, Vasilis Sarakatsianos, Maria Konstantaki, Polyxeni Giouni, Eleni Grantzioti, George D. Tsididis, Theodore Manouras, Maria Vamvakaki, Stavros Pissadakis</i>	
Femtosecond Laser Direct-Write Integrated Optics Beam Combiner for the Detection of Exoplanets	290
<i>Elizabeth Arcadi, Glen Douglass, Jacinda Webb, Guillaume Tremblier, Stephanie Rossini-Bryson, Eckhart Spalding, Barnaby Norris, Peter Tuthill, Marc-Antoine Martinod, Mona. E. Morsy, Julien Lozi, Sébastien Vievard, Kyohoon Ahn, Vincent Deo, Olivier Guyon, Micheal. J. Withford, Simon Gross</i>	

PT-Symmetric Photonics in the Absence of Gain Or Loss	291
<i>Johannes Bentzien, Julien Pinske, Lukas J. Maczewsky, Steffen Weimann, Matthias Heinrich, Stefan Scheel, Alexander Szameit</i>	
A Maskless Nanopatterning Method Based on Laser Polarization Response.....	292
<i>Beliz Dogukaya, Rana Asgari Sabet, Onur Tokel</i>	
Projecting Multiphase Holograms for Maskless Lithography	293
<i>Ayan Rakshit, Antoni Wojcik, Oliver Burton, Tim Wilkinson, Hannah Joyce</i>	
Widely Tunable Second Harmonic Generation in Low-Loss Thin-Film LiNbO3 Membrane.....	294
<i>Aiman Zinaoui, Jean-David Fayssaud, Arthur De Sousa Lopes Moreira, Miguel Angel Suarez, Ludovic Gauthier-Manuel, Samuel Queste, Laurent Robert, Mathieu Chauvet, Nadège Courjal</i>	
Electrically Modulated Waveguide Grating on Thin-Film Lithium Niobate	295
<i>Zhibo Li, Xiao Sun, Jue Wang, Archie McIver, Lianping Hou, John H. Marsh, Anthony E. Kelly, Marc Sorel</i>	
Hetero-Integration of Diamond Nanostructures on AlGaIn-Based Photonic Circuits	296
<i>Domenica Bermeo Alvaro, Sinan Gündogdu, Lea M. Rektorschek, Marco E. Stucki, Maarten H. Van Der Hoeven, Julian M. Bopp, Tim Kolbe, Sylvia Hagedorn, Markus Weyers, Tommaso Pregnolato, Tim Schröder</i>	
Aluminum Nitride Waveguides with 0.12 dB/cm Propagation Loss Around the Telecommunication C-Band	297
<i>Radhakant Singh, Rijil Thomas, Mohit Raghuwanshi, Balasubramanian Sundarapandian, Lutz Kirste, Stephan Suckow, Max C. Lemme</i>	
An SU-8 Waveguide System Coupled to Site-Controlled (In)GaAs QDs	298
<i>Salvador A. Medina-Rangel, Nicola Maraviglia, John O'Hara, Luca Colavecchi, Liam O'Faolain, Emanuele Pelucchi</i>	
CLEO®/Europe-EQEC 2025 Low Index Cladding for Polymer Microring Resonator Waveguides	299
<i>Santhosh Pandian, Marina Fetisova, Petri Karvinen, Heikki Rekola, Paul Müllner, Moritz Eggeling, Rainer Hainberger, Evgenii Lepukhov, Tapio Niemi</i>	
Novel Materials and Processes for Silicon Photonics	300
<i>Dries Van Thourhout</i>	
Fabrication Tolerant Heterogeneously Integrated Lithium Niobate Modulator on Bi-Layer Silicon Nitride Using Micro Transfer Printing	301
<i>Vahid Talebi, Marcello Girardi, Yan Gao, Fabien N. A. Labbé, Victor Torres Company, Yunhong Ding, Minhao Pu, Kresten Yvind</i>	
Rapid Prototyping of Silicon Nitride Integrated Photonics Platforms for Visible to Mid-IR Circuits	302
<i>Batoul Hashemi, Cameron M. Naraine, Niloofar Majidian Taleghani, Jocelyn N. Westwood Bachman, Cameron Horvath, Bruno L. Segat Frare, Hamidu M. Mbonde, Pooya Torab Ahmadi, Stefanie Markevich, Kevin Setzer, Alexandria McKinlay, Khadijeh Mirabbas Kiani, Renjie Wang, Ponnambalam Ravi Selvaganapathy, Peter Mascher, Andrew P. Knights, Jens H. Schmid, Pavel Cheben, Mirwais Aktary, Jonathan D. B. Bradley</i>	
Ultra-High Q Silicon Nitride Microresonators Enabled Raman Lasing	303
<i>Yi Zheng, Haoyang Tan, Kresten Yvind, Minhao Pu</i>	

Silicon-Nitride-Based Integrated Photonics Platform for VIS Spectral Range	304
<i>Mateusz Slowikowski, Marcin Juchniewicz, Michal Golas, Marcin Mysliwiec, Bartlomiej Stonio, Bartosz Michalak, Marcin Lelit, Dagmara Drecka, Michal Jarosik, Krystian Pavlov, Maciej Filipiak</i>	
The Dual Function of Light-Activated TiO/Zn/Zeolite Nanomotors in Optical Sensing and Dye Degradation	305
<i>Shadab Dabagh, Rukmani Singh, Claudia Borri, Huseyin Avci, Mahdi Bahadoran, Francesco Chiavaioli</i>	
Physical Machining of Chambers, Vias, and Monolithic Mirrors in Silicon for Quantum Technologies.....	306
<i>Paul C. Gow, Glenn M. Churchill, Joel M. N. Keen, Corin B. E. Gawith, James C. Gates</i>	
Impact of Replacing Na ⁺ with Ag ⁺ on the Optical and Spectroscopic Properties of Er ³⁺ -Doped Tellurite Glasses	307
<i>Iuliia Kraskowski, Khaldoon Nasser, Chloe Hannedse, Laeticia Petit</i>	
Optical Nonlinearity Mapping and Upconversion Excitation of Defect Photoluminescence in Epitaxial-Grown Boron Nitride Layers	308
<i>Mariusz Klimczak, Bazlul Karim, Filip Bojdecki, Marcin Pastorczak, Jan Kossacki, Gabriela Szwed, Aleksandra Dabrowska, Tomasz Kazimierzczuk, Johannes Binder, Andrzej Wyszomolek</i>	
Does Photodarkening in BGSe and BGGSe Influence Nonlinear Conversion.....	309
<i>Julius Lukošiusas, Robertas Kananvicius, Regimantas Januškevicius, Justinas Ceponkus, Rokas Danilevicius, Andrejus Michailovas</i>	
Annealing in Zn Vapours for Manufacturing Large-Aperture Cr:ZnS Laser Gain Media.....	310
<i>Nazar Kovalenko, Thomas Thiel, Oleg Pronin</i>	
Fabrication of 3D Direct-Taper for the Optimization of SiN Waveguides Edge Couplers.....	311
<i>Gioele Piccoli, Yuejiao Yang, Georg Pucker, Mher Ghulinyan</i>	
Analytical and Experimental Demonstration of Fano Resonance in One-Dimensional Photonic Crystal Cavity and Waveguide System.....	312
<i>Pratip Ghosh, Akshay K. Naik</i>	
Spectroscopic Investigation and Raman Spectra of (Dy,Tb):YAG Crystals: A Possible Gain Material for Visible Laser.....	313
<i>Angela Pirri, Alberto Santonocito, Jiang Li, Paolo Matteini, Martin Nikl, Guido Toci</i>	
Very Sensitive, High Dynamic Range Fluorescence Analysis of Praseodymium- And Dysprosium-Doped Fibres with Different Core Composition.....	314
<i>Matthias Jäser, Arni Pratiwi, Martin Leich, Sonja Unger, Anka Schwuchow, Martin Lorenz, Robert Müller, Adrian Lorenz, Jan Dellith, Jakub Markiewicz, Tomasz Ragin, Piotr Miluski, Marcin Kochanowicz, Gloria Lesly Jimenez, Dominik Dorosz</i>	
Development of NIR-Rechargeable Phosphor Embedded in Active Glasses.....	315
<i>Evellyn Santos Magalhães, Minnea Tuomisto, Philippe Smet, Mika Lastusaari, Laeticia Petit</i>	
High-Performance Optical Filters for Advanced Bio-Imaging Systems: Manufacturing Challenges and Innovative Solutions	316
<i>Lucas Arzac, Fabien Lemarchand, Detlef Arhilger, Harro Hagedorn, Julien Lumeau</i>	
Bayesian Optimization for Data Selection in Bragg Grating Design Space for Machine Learning Training	317
<i>M. R. Mahani, Igor A. Nechepurenko, Yasmin Rahimof, Andreas Wicht</i>	

Nanoscale X-Ray Tomography of Fs-Laser-Written Integrated Photonics	318
<i>Karo Becker, Dmitry Karpov, Matthias Heinrich, Alexander Szameit, Pepijn W. H. Pinkse, Tom A. W. Wolterink</i>	
Fabrication of PPLNOI Waveguides Via In-Situ Poling Monitoring and Optimized Dry Etching Conditions for Efficient Frequency Conversion	319
<i>Tetiana Shusar, Hong-Seok Kim, Guhwan Kim, Jinwoo Kim, Jiho Park, Jin Tae Kim, Jaegy Park, Min-Su Kim, Jung Jin Ju, Kiwon Moon</i>	
Lithium Niobate Tantalate: Investigations of Nonlinear Optical Behavior and Ultrafast Transient Phenomena	320
<i>Niklas Dömer, Anton Pfannstiel, Jan Klenen, Julian Koelmann, Steffen Ganschow, Mirco Imlau</i>	
The Second Harmonic Generation in the ABC-Type Metamaterials.....	321
<i>Martin Miculka, Jinsong Liu, Sebastian Beer, Raihan Rafi, Denys Sevriukov, Sergiy Yulin, Vladimir Roddatis, Adriana Szeghalmi</i>	
Optical Waveguides Fabrication on Flexible PMMA Substrate Using Aerosol-Jet Printing for Automotive and Aeronautical Applications.....	322
<i>Pauline Girault, Olatz Adarraga, Ibai Santamaria Teran, Celina Vaquero Moralejo, Laurent Oyhenart, Lionel Canioni, Laurent Bechou</i>	
Compact Multimode Interference Coupler Based on Hybrid Silicon Rich Nitride-Thin Film Lithium Niobate Platform.....	323
<i>Toijam Sunder Meetei, Yong-Tak Lee, Nan Ei Yu</i>	
Suspended Waveguides for Mid-Infrared in Silicon Nitride.....	324
<i>Michal Jarosik, Marcin Juchniewicz, Michal Golas, Mateusz Slowikowski, Maciej Filipiak, Bartlomiej Stonio, Dagmara Drecka</i>	
Design and Fabrication of a Metalens for Beam Shaping in an End-Fire Optical Phased Array	325
<i>Talem Rebeda Roy, Toijam Sunder Meetei, Nan Ei Yu</i>	
The Influence of Nb ₂ O ₅ in the Linear and Nonlinear Properties of Fluorophosphates Glasses	326
<i>Artur Barbedo, José L. Clabel H., Leandro O. E. Silva, Danilo Manzani, Cleber R. Mendonça</i>	
Sm ³⁺ -Doped SrTi(PO ₄) ₂ Phosphor-In-Glass for Inorganic Colour Conversion in LEDs.....	327
<i>Jeena Rose Jose, Gin Jose, P R Biju</i>	
Coefficient of Thermal Expansion of Ultra-Stable Materials Measured with 10 ⁻¹⁰ /K Uncertainty	328
<i>Noah R. Syring, Tobias Ohlendorf, Uwe Sterr, Thomas Legero</i>	
Temperature-Dependent Spectroscopy of Praseodymium-Doped Oxides.....	329
<i>Ole Hahn, Noémie Sandré, Sascha Kalusniak, Moritz Badtke, Christian Kränkel</i>	
Characterization of Astrophotonic Components with the CHara ARray Integrated Optics Testbench (CHARIOT).....	330
<i>Aline N. Dinkelaker, Kévin Barjot, Alyssa V. Mayer, Lucas Labadie, Nicholas J. Scott, Narsireddy Anugu, Gail Schaefer, Aurélien Benoît, Jacopo Siliprandi, Robert R. Thomson, Kalaga Madhav</i>	
Multifunctional Phosphors with Ultra-Broadband Near-Infrared Emission (700 - 1700 Nm)	331
<i>Karolina Sadowska, Jakub Markiewicz, Tomasz Ragin, Marcin Kochanowicz, Piotr Miluski, Jacek Mariusz Zmojda</i>	

Photonic Crystal Surface Emitting Lasers Over the Entire Visible Spectrum Based on Colloidal Nanocrystals	332
<i>Ivo Tanghe, Tom Vandekerckhove, Margarita Samoli, Amelia Waters, Dulanjan Harankahage, Mikhail Zamkov, Zeger Hens, Christian Seassal, Hai-Son Nguyen, Dries Van Thourhout, Pieter Geiregat</i>	
Non-Destructive 2D Profiling of Refractive Index and Dopant Distributions in Yb-Doped Glass Preforms	333
<i>Rosemary C. Clark, Nilotpal Choudhury, Jayanta K. Sahu, Michalis N. Zervas</i>	
Stimulated-Emission, Phonon Sidebands and Energy-Transfer Upconversion in Ho ³⁺ :MF ₂ Crystals for Lasers at 2-3 μ m	334
<i>Ngoc Quynh Hoa Nguyen, Pavel Loiko, Abdelmjid Benayad, Patrice Camy, Alain Braud</i>	
μ -Raman/Luminescence Spectroscopy of Ultrafast Laser Inscribed Waveguides in Er ³⁺ :LiYF ₄ for Refractive Index Engineering	335
<i>Ji Eun Bae, Pavel Loiko, Carolina Romero, Javier R. Vázquez De Aldana, Xavier Mateos, Abdelmjid Benayad, Alain Braud, Patrice Camy</i>	
Towards a VUV Cw Laser Light Source	336
<i>Simon J. Herr, Hiroki Tanaka, Anna-Rosa Waidhas, Gaetano Bonetti, Milena Hugenschmidt, Matthias Bickermann, Frank Kühnemann</i>	
Fabrication of Perovskite Semiconductor Devices for Solar-Pumped Lasers	337
<i>Yosuke Kume, Taiki Sakaguchi, Takaaki Ishikawa, Shijun Shi, Masato Soutome, Takashi Kondo, Ichiro Shoji</i>	
Laser Waveguides by a Hybrid Ceramic Process	338
<i>Francesco Picelli, Jan Hostaša, Laura Esposito, Andreana Piancastelli, Guido Toci, Barbara Patrizi</i>	
Wafer-Scale Diamond Grinding of 3D Optical Accessible Vacuum Cells for Quantum Technologies	339
<i>Joel M. N. Keen, Paul C. Gow, Glenn M. Churchill, Corin B. E. Gawith, James C. Gates</i>	
Fabrication of Polymer Waveguide Networks by Hot Imprint Replication for Multi-Functional Sensing	340
<i>Yash Bhatia, Lei Zheng, Axel Günther, Bernhard Roth</i>	
Wafer-Scalable Fabrication of Highly Efficient Plasmonic Substrates Via Simple Self-Assembly Approach	341
<i>Vasanthan Devaraj, Jongmin Lee, Minjun Kim, Thomas Zentgraf</i>	
Monolayer-Thick GaN/AlN Quantum Well Anodes and Far-UVC Field Emission Device at 226 nm	342
<i>Dmitri Boiko, Pierre Demolon, Jean-François Carlin, Emma Eriksson, Arno Hoogerwerf, Kevin Bach Gravesen, Asger Brimnes Gardner, Marc-Alexander Dubois, Peter Tønning, Emil Zanchetta Ulsig, Mercedes Marin, Johan Tingsborg, Nicolas Volet, Nicolas Grandjean</i>	
Black Quartz for Infrared Photodetection.....	343
<i>Raffaele De Palo, Annalisa Volpe, Pietro Patimisco, Andrea Zifarelli, Angelo Sampaolo, Antonio Ancona, Vincenzo Spagnolo</i>	
Nanostructured Organic Photodetectors for Differential Measurements.....	344
<i>Jan Schardt, Martina Gerken</i>	
Self-Driven and High-Performance Photodetector Based on Topological Insulator BiSb/Si Heterojunction for Visible Light Communication	345
<i>Hongguang Sun, Zhao Ye, Ying Qiu, Jin Tao, Qiuyun Fu</i>	

Towards the Realization of Smart Windows for Joint Solar Energy Harvesting and Visible Light Communication	346
<i>Marco Meucci, Mauro Aresti, Ali Umair, Francesco Bruni, Francesco Meinardi, Sergio Brovelli, Jacopo Catani</i>	
Hybrid Mid-Infrared Supermirrors with Ion-Beam-Sputtered Coatings	347
<i>Lukas W. Perner, Valentin J. Wittwer, Gar-Wing Truong, Garrett D. Cole, Thomas Südmeyer</i>	
Group Delay Dispersion Measurements of Novel Mid-Infrared Mirrors	348
<i>Ulrich Galander, Maximilian Prinz, Lukas W. Perner, Oliver H. Heckl</i>	
Advanced PDK Elements for a Mid-Infrared Ge-On-Si Platform (MIRPIC)	349
<i>Andrzej Polatynski, Jacek Olszewski, Marcin Lelit, Aleksandra Pasnikowska, Aleksandra Bieniek-Kaczorek, Pawel Bortnowski, Lukasz Kozlowski, Krzysztof Anders, Stanislaw Stopinski, Piotr Wisniewski, Mateusz Slowikowski, Marcin Juchniewicz, Dorota Pierscinska, Kamil Pierscinski, André Richter, Ryszard Piramidowicz</i>	
Micro-Tapered Long Period Grating for Mid-Infrared Wavelengths.....	350
<i>Francesco Anelli, Antonella Maria Loconsole, Solenn Cozic, Francesco Prudenzano</i>	
Mid-Infrared Fluoride Fiber Micro-Lenses for Inline Beam Shaping	351
<i>Tinghui An, Yuchen Wang, Wenkai Zhao, Xiyue Zhang, Weibo Wu, Lu Deng, Xinqiang Yuan, Yiguang Jiang, Long Zhang</i>	
Pixelated Holographic Printing of Light-Reconfigurable Diffractive Optical Elements on Azobenzene Materials	352
<i>Alex Berdin, Arri Priimägi</i>	
Epitaxial Growth and Spectroscopy of Sm ³⁺ :LiYF ₄ Crystalline Layers for Orange Waveguide Lasers	353
<i>Jonathan Demaimay, Pavel Loiko, Gurvan Brasse, Abdelmjid Benayad, Patrice Camy, Alain Braud</i>	
Individual Authentication Method for Semiconductor Industry Using Optical Characteristics of Inkjet-Printed WGM-Microdisks.....	354
<i>Naoya Tate, Wang Weiheng, Seigo Kitazaki, Jinghan Chen, Hiroaki Yoshioka, Naoki Yoshida, Kaoru Sumiya, Morihisa Hoga, Ken Takano, Shinya Takyu, Tsutomu Matsumoto</i>	
SLM-Based Optical Computing Platform for Designing Polychromatic Flat Optics.....	355
<i>Filipe Camarneiro, Manuel J. L. F. Rodrigues, Aamod Shanker, Ana Dias, Diogo E. Aguiam</i>	
A Hybrid Fiber-Solid-State Laser with 3D-Printed Intracavity Lenses	356
<i>Simon Angstenberger, Pavel Ruchka, Mario Hentschel, Tobias Steinle, Harald Giessen</i>	
On-Fiber 3D Printed Broadband Radial and Azimuthal Vector Beam Generator.....	357
<i>Diana Gonzalez-Hernandez, Andrea Bertocini, Innem V. A. K. Reddy, Carlo Liberale</i>	
Femtosecond Laser-Assisted Free-Form 3D Printing on Fiber Tip for Micro Fluidic Sensing Applications.....	358
<i>Ribal Beyrouti, Pauline Girault, Laurent Oyhénart, Laurent Béchou, Lionel Canioni</i>	
High-NA Quasi-Parabolic Microlenses Fabricated by Two-Photon Polymerization for Linear and Nonlinear Microscopy	359
<i>Behjat S. Kariman, Alessandra Nardini, Mario Marini, Claudio Conci, Manuela T. Raimondi, Roberto Osellame, Giuseppe Chirico, Giulio Cerullo, Rebeca Martínez Vázquez</i>	

3D Soft Imprint Lithography for Characterization of Polycrystalline $\chi(2)$ Materials.....	360
<i>Üile-Linda Talts, Andrea Morandi, Helena Weigand, Bruno Melo, Romain Quidant, Rachel Grange</i>	
Ionic-Driven Optical Tuning: Unlocking Dynamic Refractive Index Control with PEDOT:PSS.....	361
<i>P. Franceschini, A. Tognazzi, V. M. Demartis, L. Carletti, E. Menshikov, I. Alessandri, A. C. Cino, F. Torricelli, C. De Angelis, M. A. Vincenti</i>	
Tunable Optical Filters Using Barium Strontium Titanate as Electro-Optical Material.....	362
<i>Mojdeh Vakili, Yating Ruan, Lambert Alff, Sascha Preu</i>	
Optical Phase Transition in Tin Diselenide for Photonic Non-Volatile Memory Applications.....	363
<i>Rakshitha Kallega, Ramesh Karupannan, Shankar Kumar Selvaraja</i>	
Programmable Light-Driven Fabrication of Azopolymer Microstructures	364
<i>Marcella Salvatore, I Komang Januariyasa, Francesco Reda, Fabio Borbone, Stefano Luigi Oscurato</i>	
Laser Cooling of Yb-Doped KY3F10 to 170 K.....	365
<i>Stefan Püschel, Zoe Liestmann, Christian Kränkel, Hiroki Tanaka</i>	
Nanoscale Petahertz-Electronics for Field-Resolved Spectroscopy	366
<i>Phillip D. Keathley</i>	
Two-Octave-Spanning Dual-Oscillator Field-Resolved Infrared Spectrometer Recording at kHz Rates.....	367
<i>Dionysios Potamianos, Philipp Steinleitner, Aleksandar Sebesta, Amaj Chamankar, Hojjat Heydarian, Behnam A. Jahedi, Pragma Verma, Claudio Cavecchi, Gabriele Politi, Sebastian Gröbmeyer, Vladimir Pervak, Ferenc Krausz, Alexander Weigel</i>	
Field-Resolved Infrared Differential Molecular Fingerprinting of Liquid Samples.....	368
<i>Zheng Wei, Sanchi Maithani, Wolfgang Schweinberger, Lorenzo Gatto, Sebastian Gröbmeyer, Igor Kukhtevich, Aleksandar Sebesta, Claudio Cavecchi, Abhijit Maity, Csaba Liber, Ferenc Krausz, Alexander Weigel</i>	
Flexible Ultrafast Single-Shot Imaging Based on Acousto-Optical Shaping and Hyperspectral Capture	369
<i>Alisson Rodrigues De Paula, Saïd Idlahcen, Denis Lebrun, Pierre-Henry Hanzard, Ammar Hideur, Thomas Godin</i>	
Practical Pump-Probe Spectroscopy Considerations for High-Speed and Low-Noise Measurements.....	370
<i>Matthias Velsink, Maksym Illienko, Stefan Witte</i>	
Optimising Resonant Dispersive Wave Generation in Hollow Capillary Fibre for Few-Femtosecond Soft X-Ray Transient Absorption Spectroscopy.....	371
<i>Tim Klee, Jacob P. Lee, Miguel Manresa Nalda, Christian Brahms, John C. Travers, John W. G. Tisch, Jon P. Marangos, Clément Ferchaud</i>	
High-Harmonic Generation Directly Driven with 250 MW Thin-Disk Oscillator System	372
<i>Moinuddin Kadiwala, Yasmin Kopp, Nazar Kovalenko, Semyon Goncharov, Oleg Pronin</i>	
High Repetition Rate, High Average Power XUV Sources Based on High Harmonic Generation.....	373
<i>Bastian Manschwetus, Thomas Braatz, Sebastian Starosielec, Supriya Rajhans, Esmerando Escoto, Malte Sumfleth, Dominic Laumer, Hossein Goudarzi, Christoph M. Heyl, Marek Wieland, Mark J. Prandolini, Tais Gorkhover, Markus Drescher, Michael Schulz, Robert Riedel</i>	

Recent Upgrades of ELI-ALPS High Repetition Rate Lasers	374
<i>Imre Seres, Barnabás Gilicze, Tamás Bartyik, Zsolt Bengery, Zsolt Kovács, Bernát Vinkó, Zoltán Várallyay, Péter Jójárt, Ádám Börzsönyi, Evgeny Shestaev, Maxim Tschernajew, Nico Walther, Christian Grebing, Sven Breitkopf, Tino Eidam, Jens Limpert</i>	
Full Characterization of Few-Fs Pulses Tunable in the Vacuum Ultraviolet	375
<i>José R. C. Andrade, Martin Kretschmar, Rostyslav Danylo, Stefanos Carlström, Tobias Witting, Alexandre Mermillod-Blondin, Serguei Patchkovskii, Misha Yu Ivanov, Marc J. J. Vrakking, Arnaud Rouzée, Tamas Nagy</i>	
Single-Pulse Phase Spectrum Measurement of Femtosecond Mid-Infrared Pulses at 50 MHz	376
<i>Zhihao Deng, Gabriel Demontigny, Denis Seletskiy, Takuro Ideguchi</i>	
A Technique for the Characterization of the Time-Dependent Polarization State of Few-Cycle Laser Pulses: D-TURTLE	377
<i>Oscar Pérez-Benito, Rosa Weigand</i>	
A-Swing Ptychographic Retrieval of Scalar and Vector Ultrashort Pulses.....	378
<i>Cristian Barbero, Íñigo J. Sola, Enrique García-García, Cruz Méndez, Benjamín Alonso</i>	
Spatio-Temporal Characterization of Few-Cycle Laser Pulses in the Mid-Infrared.....	379
<i>Roland S. Nagymihály, Bálint Kiss, Miguel Miranda, Matias Charrut, Paulo T. Guerreiro, Levente Lehotai, Rajaram Shrestha, Eric Cormier, Rosa Romero</i>	
Generation of Broadband Multi-MJ LWIR Pulses in Multicolor-Pumped ZGP NOPCPA	380
<i>Rokas Jutas, Joris Roman, Ignas Astrauskas, Aref Imani, Paolo Carpeggiani, Pavel Polynkin, Edgar Kaksis, Tobias Floery, Jonas Kolenda, Tadas Bartulevicius, Kirilas Michailovas, Andrejus Michailovas, Andrius Baltuška, Audrius Pugžlys</i>	
MHz-Rate Cr:ZnS Amplifier Providing 2.7 W of Pulses with Sub-10-Fs Transform Limit at 2.3 μm	381
<i>Wei Liang, Džiugas Kimbaras, Alexander Fuerbach, Philipp Steinlechner, Claudio Cavecchi, Sebastian Gröbmeyer, Daiki Okazaki, Ferenc Krausz, Alexander Weigel</i>	
High-Power-Seed Femtosecond Long-Wave Infrared Difference Frequency Generators.....	382
<i>Songyin Yu, Zhenyu Yang, Mengke Qin, Zhaowei Zhang</i>	
Application of External Electric Field on Laser Filaments for Ultrafast Mid-Infrared Sub-Cycle Pulse Stabilization	383
<i>Neil Irvin Cabello, Shuto Nakamura, Yue Zhao, Takao Fuji</i>	
Laser Pulse Shaping Capability at 2050 nm for Dielectric Laser Acceleration.....	384
<i>Luca Genovese, Christoph Mahnke, Sarper H. Salman, Ingmar Hartl, Franz X. Kaertner, Huseyin Cankaya</i>	
Key Milestones in Femtosecond Lasers: From Scientific Breakthroughs to Industrial Impact.....	385
<i>Ursula Keller</i>	
A Compact Fiber Device Providing a Petahertz of Coherent Bandwidth.....	386
<i>Sarah Haller, Sarah Rebecca Hutter, Philipp Sterk, Alfred Leitenstorfer</i>	
A Compact Zigzag Compressor for Spectrally-Divided CPA.....	387
<i>E. Kaksis, Zh. Guo, V. Stummer, A. Pugžlys, H. Zeng, A. Baltuška</i>	
Towards an Efficient Gas-Based Sono-Photonic Michelson Modulator	388
<i>Yannick Schrödel, Emilian Ghabashi Nejad, Sören Soennecken, Jan Helge Dörsam, Tino Lang, Anne Harth, Mario Kupnik, Christoph M. Hey</i>	

Post-Compression of a Q-Switched Laser in a Multi-Pass Cell	389
<i>Arthur Schönberg, Peer Biesterfeld, Marc Seitz, Nayla Jimenez, Tino Lang, Marcus Seidel, Prannay Balla, Lutz Winkelmann, Sven Fröhlich, Philip Mosel, Ingmar Hartl, Francesca Calegari, Uwe Morgner, Milutin Kovacev, Christoph M. Heyl, Andrea Trabattoni</i>	
Quasi-Phase Matched Four-Wave Mixing in Gas-Filled Multipass Cell: An Experimental Study	390
<i>Antoine Comby, Florent Guichard, Michele Natile, Xavier Délen, Marc Hanna</i>	
Temporal Pulse Shaping Technique for Self-Phase Modulation Tailoring	391
<i>Gautier Parize, Michele Natile, Florent Guichard, Antoine Comby, Marc Hanna, Patrick Georges</i>	
100 μ J-Level Pulse Compression Down to 23 Fs in a Single-Stage Gas-Filled Herriott Multipass Cell	392
<i>Michal Pietrzak, Arkadiusz Hudzikowski, Aleksander Gluszek, Jaroslaw Sotor</i>	
Re-Evaluating the V-Parameter: Insights into Spatio-Spectral Homogeneity in Nonlinear Post-Compression	393
<i>Maximilian Karst, Lucas Eisenbach, Tobias Heuermann, Wilhelm Eschen, Philipp Gierschke, Maximilian Benner, Robert Klas, Arno Klenke, Jens Limpert</i>	
Nonlinear Compression of a 2.08- μ m Regenerative Amplifier with Bulk Multipass Cell	394
<i>Boldzsar Kassai, Anna Suzuki, Alan Omar, Yicheng Wang, Martin Hoffmann, Clara J. Saraceno</i>	
Post-Compression with Enhanced Temporal Pulse Quality Via Chirped Ellipse Rotation	395
<i>Esmerando Escoto, Andrea Zablah Ticas, Supriya Rajhans, Christoph M. Heyl</i>	
Multi-Mirror Multi-Pass Cells for Compression of Energetic Narrowband Laser Pulses into the Femtosecond Regime	396
<i>Gaspard Beaufort, Nayla Jimenez, Gunnar Arisholm, Victor Hariton, Ayhan Tajalli, Ingmar Hartl, Anne-Lise Viotti, Marcus Seidel</i>	
Double-Pass Multipass Cell Compressor for Peak Power Enhancement of μ J Pulse Energies	397
<i>Alan Omar, Martin Hoffmann, Clara J. Saraceno</i>	
Yb-Based Cascaded Multi-Pass Cell Post-Compression Setup for kHz Laser-Plasma Acceleration	398
<i>Victor Koltalo, Louis Daniault, Jaismeen Kaur, Rodrigo Lopez-Martens</i>	
Hollow-Core Fibres for Stable Trains of Wavelength-Tuneable Ultraviolet Pulses at 10 MHz Repetition Rate	399
<i>Martin Butryn, Mouhamad Abo Koura, Markus Lippl, Michael H. Frosz, Nicolas Y. Joly, Francesco Tani</i>	
Single-Cycle 2.6 Fs Pulses Via Two-Stage Plasma Self-Compression	400
<i>Yu-En Chien, Chun-Wei Hsieh, Ming-Shian Tsai, Ming-Chang Chen</i>	
Tunable Wavelength by Adjusting SPM and SRS in Pulse Non-Linear Post-Compression Scheme	401
<i>Aref Imani, Edgar Kaksis, Alessandra Bellissimo, Audrius Pugžlys, Andrius Baltuška, Paolo A. Carpegiani</i>	
Sub-50 Fs Self-Compression of 5- μ m Pulses in a Hollow-Core Fiber	402
<i>Martin Bock, Usman Sapaev, Ji Eun Bae, Anton Husakou, Joachim Herrmann, Tamas Nagy, Dennis Ueberschaer, Uwe Griebner</i>	
Sub-Cycle Pulse Compression Origins from Yb:KGW Amplifier	403
<i>Zekun Pi, Hee-Yong Kim, Eleftherios Goulielmakis</i>	

Towards a Compact Single-Diode-Pumped Ti:Sapphire Astrocomb.....	404
<i>Ewan Allan, Abdullah Alabbadi, Hanna Ostapenko, Pablo Castro-Marin, Richard A. McCracken, Pascal Del'Haye, Derryck T. Reid</i>	
Mode-Locked Monolithic Ti:Sapphire Laser with 17 GHz Repetition Rate	405
<i>Torben Fiehler, Ulrich Wittrock</i>	
Low Noise Repetition Rate Multiplication of a Modelocked Er Fiber Laser with a V-Cavity.....	406
<i>Jacob Lampen, Kevin F. Lee, Jie Jiang, Martin E. Fermann</i>	
Temporal Compression of an Electro-Optic Fiber Laser with Flexible Repetition Rate in the Multi-GHz Range	407
<i>Duncan Sarton, Jérôme Lhermite, Jean-Christophe Delagnes, Philippe Balcou, Charles Lacampagne, Denis Marion</i>	
CW-Seeded Parametric Combs with Sub-100 Mrad Carrier-Envelope Phase Noise	408
<i>Jintao Fan, Jue Wang, Haosen Shi, Günter Steinmeyer, Minglie Hu</i>	
Efficient Few-Cycle Pulse Amplification Using an Optical Parametric Multi-Pass Cell Amplifier.....	409
<i>Supriya Rajhans, Esmerando Escoto, Arthur Schönberg, Nikolas Rupp, Ingmar Hartl, Christoph M. Heyl, Tino Lang</i>	
A Universal CEP-Stable OPCPA Seeder for High-Power Amplifiers	410
<i>Raman Maksimenka, Simone Bux, Christina Alexandridi, Benoit Bussi�ere, Nicolas Thir�e, Thomas Pinoteau, Franck Falcoz, Yoann Pertot</i>	
High-Repetition Rate 2.3-Cycle Shortwave-Infrared Source for Next-Generation Field-Resolved Spectroscopy	411
<i>Felix Ritzkowsky, Matthew Yeung, Gian Luca Dolso, Lu-Ting Chuo, Philip D. Keathley</i>	
Yb-Pumped Chirped-Pulse Optical Parametric Oscillator Based on Pellin-Broca Prisms	412
<i>Miguel Mor�an Coto, Richard A. McCracken</i>	
Widely-Tunable, Narrow-Linewidth Picosecond Optical Parameter Oscillators Based on Intracavity Dispersion Management.....	413
<i>Zhenyu Yang, Songyin Yu, Mengke Qin, Zhaowei Zhang</i>	
Single-Shot Pulse Retrieval of Femtosecond Bright Squeezed Vacuum	414
<i>Yuval Kern, Ido Nisim, Michael Birk, Andrei Rasputnyi, Zhaopin Chen, Pavel Sidorenko, Ido Kaminer, Oren Cohen, Michael Kr�uger</i>	
Phase Noise Properties of Super-Continuum Generation in All-Normal Dispersion Fibers	415
<i>Matis Marcadier, Nicolas Forget, Yoann Pertot, Aurelie Jullien</i>	
Generation of 39 Fs, 3.1 MW Pulses from a Gain-Managed Mode-Locked Fiber Oscillator	416
<i>Ziheng Zhuang, Yuhua Lu, Shan Wang, Di Lin, Jianping Li, Songnian Fu, Yuwen Qin</i>	
Study of Nonlinearities in Terahertz-Repetition-Rate mJ-CPA	417
<i>Vinzenz Stummer, Edgar Kaksis, Audrius Pug�zlys, Andrius Baltu�ska</i>	
High Power Quantum Walk Comb at 1.6 μm with a Repetition Rate of 2.3 GHz.....	418
<i>Lucius Miller, Bahareh Marzban, Mathieu Bertrand, Alexander Dikopoltsev, Giacomo Scalari, J�r�me Faist</i>	

A Novel All-Normal Dispersion Photonic Crystal Fiber Design for Low-Noise Coherent Supercontinuum Generation with 1030 nm Pumping.....	419
<i>R. Morel, V. Thibaut, M. Marcadier, A. Jullien, N. Forget, A. Cassez, V. Andrieux, S. Garzandat, A. Kudlinski, J. M. Dudley, T. Sylvestre</i>	
Single-Shot Carrier-Envelope Phase Measurement at 586 kHz Using Optical Fourier-Transform Interferometry.....	420
<i>Chen Guo, Miguel Miranda, Ann-Kathrin Raab, Anne-Lise Viotti, Paulo Tiago Guerreiro, Vitor Amorim, Piotr Matyba, Rosa Romero, Helder Crespo, Anne L'Huillier, Cord L. Arnold</i>	
4D Near-Field Electron Tomography	421
<i>Tamir Shpiro, Ron Ruimy, Kaizad Rustomji, Ido Kaminer</i>	
Time-Domain Terahertz Spectrometer with 1-18 THz Spectral Coverage Based on a Cr:ZnS Oscillator	422
<i>Daiki Okazaki, Mojtaba Aghakasiri, Philipp Steinleitner, Wolfgang Schweinberger, Dionysios Potamianos, Yang Gui, Aleksandar Sebesta, Behnam Abbasvand Jahedi, Shigeki Tokita, Ferenc Krausz, Alexander Weigel</i>	
Ultrafast Imaging Below the Diffraction Limit with High Harmonic Deactivation Microscopy	423
<i>Tanya W. P. Van Horen, Kevin Murzyn, Pieter J. Van Essen, Zhonghui Nie, Leo Guery, Maarten Van Der Geest, Stefan Witte, Peter M. Kraus</i>	
Fundamental Limits on Ultrafast Electron Holography.....	424
<i>Walter Schaap, Chen Mechel, Ron Ruimy, Arthur Niedermayr, Yonatan Israel, Alexey Gorlach, Rafal Dunin-Borkowski, Jom Luiten, Ido Kaminer</i>	
Spatiotemporal Wavevector Dynamics in Transverse Mode-Locked Beams	425
<i>Jan Wichmann, Michael Zwillich, Carsten Fallnich</i>	
Post-Compression of an Ytterbium Laser in Two Steps for Attosecond Spectroscopy	426
<i>Nicolas Lericheux, Thierry Auguste, Matthieu Guer, Titouan Gadeyne, Olivier Girad, Hussein Taleb, Fabien Lepetit, Fabrice Réau, Olivier Tcherbakoff, Pascal Salière, Jean-François Hergott, Hugo Marroux</i>	
Dual-Comb Generation in III-V Semiconductor Laser: Transverse Modes Versus Modeless Cavities.....	427
<i>Mohamed Nadrani, Baptiste Chomet, Adrián Bartolo, Nathan Vigne, Luc Le Gratiet, Grégoire Beaudoin, Konstantinos Pantzas, Isabelle Sagnes, Fernando Gonzalez-Posada Flores, Stéphane Blin, Arnaud Garnache</i>	
Broadband Mode-Locked III-V/LiNbO3 Microcomb Laser	428
<i>Xujia Zhang, Yuyao Guo, Tianyi Li, Zekun Cui, Jianping Chen, Kan Wu</i>	
Versatile SESAM Platform for 1560 nm Operation Based on Strain-Free, InP-Based MBE Growth.....	429
<i>Alexander Dohms, Steffen Breuer, Lars Liebermeister, Martin Schell, Robert B. Kohlhaas</i>	
Composition-Controlled Recovery Time of SWIR (2 – 2.4 μm) GaSb-Based SESAMs	430
<i>M. C. Schuchter, M. Gaulke, N. Huwyler, M. Golling, M. Guina, U. Keller</i>	
Fast Recovery Dynamics of GaSbBi-Based SESAMs for High-Fluence Operation	431
<i>M. C. Schuchter, J. Hilska, M. Peil, E. Koivusalo, M. Gaulke, U. Keller, M. Guina</i>	
Dramatic Enhancement of Supercontinuum Generation by Using Dissonant Two-Color Laser Fields	432
<i>Tsuneto Kanai, Chengxiang Jin, Hibiki Tsunekawa, Atsunori Sakurai, Toshiki Sugimoto</i>	
Ultrafast Time-Stretch Spectroscopy Using Broadband Mamyshev Oscillator at 1.7 μm	433
<i>Xiaoxiao Wen, Huajun Tang, Jixiang Chen, Yitian Tong, Kenneth Kin-Yip Wong</i>	

High Vacuum Compatible Large Dynamic Range Mechanical Deformable Mirror for Aberration Correction at Full Laser Power.....	434
<i>Alok K. Pandey, Lionel Nicolas, Jérôme Legrand, Xavier Levecq</i>	
Spatial Mode Cleaning and Nonlinear Compression of an Innoslab-Based Laser in a Gas-Filled Multipass Cell.....	435
<i>Jie Guo, Luqi Guo, Zichen Gao, Jinfeng Li, Yuguang Huang, Xiaoyan Liang</i>	
Suppression of Carrier-Phase Random-Walk in Harmonically Mode-Locked Fiber Laser Through Kelly Sidebands Enhancement.....	436
<i>Benhai Wang, Wenbin He, Xiacong Wang, Xintong Zhang, Qi Huang, Meng Pang</i>	
All-Fiber Picosecond Optical Parametric Oscillator at 933 nm Based on Raman-Assisted XMPI in a Step-Index PM Fiber.....	437
<i>Arnaud Viry, Raphaël Florentin, Thierry Robin, Kilian Le Corre, Hervé Gilles, Sylvain Girard, Mathieu Laroche</i>	
Diode-Pumped Femtosecond Alexandrite Oscillators and Towards Regenerative Amplification.....	438
<i>Tobias Grätzer, Manuel Zeyen, Daniel Hug, Bojan Resan</i>	
Comparison of Metaheuristic Algorithms for Supercontinuum Control.....	439
<i>Mathilde Hary, Teemu Koivisto, John M. Dudley, Goëry Genty</i>	
AI-Driven Design of High-Performance Optical Thin Film Coatings for Ultrafast Lasers.....	440
<i>Utsa Chattopadhyay, Florian Carstens, Andreas Wienke, Ingmar Hartl, Nihat Ay, Christoph M. Heyl, Henrik Tünnermann</i>	
Controlling the Group Velocity of a Bessel Beam.....	441
<i>Lilian Franchois, Valeria V. Belloni, Remo Giust, Luc Froehly, François Courvoisier</i>	
A Fiber Laser Source for Parallel Dual-Window Multiplex SRS (DWM-SRS): Single-Shot Ch-Stretching and Fingerprint Imaging.....	442
<i>Gabriele Di Noia, Francesco Crisafi, Fedele Pisani, Mujeeb Rahman, Andrea Ragni, Federico Monti, Eleonora Erriquez, Gianluca Galzerano, Giulio Cerullo, Matteo Negro</i>	
Self-Starting Mamyshev Oscillator at 915 nm Using an Intra-Cavity SESAM.....	443
<i>Arnaud Viry, Raphaël Florentin, Thierry Robin, Kilian Le Corre, Hervé Gilles, Sylvain Girard, Mathieu Laroche</i>	
Single-Shot Spatially-Multiplexed Ultrafast Imaging with 682 Billion Frames Per Second.....	444
<i>Dilem Eslik, Ugur Tegin</i>	
White-Light Seeded, Collinear OPCPA Front-End for LPA Drive Lasers at 800 nm.....	445
<i>Thomas Hülsenbusch, Timo Eichner, Caterina Vidoli, Tino Lang, Lutz Winkelmann, Guido Palmer, Andreas R. Maier</i>	
Ballistic Photon Imaging by Direct Two-Photon Sensor Gating.....	446
<i>Viktor Kadan, Andriy Dmytruk, Darya Akhtaryarazar, Igor Dmytruk, Arian Goodarzi, Ihor Pavlov</i>	
Ultrafast Laser Source Tunable Around 920 nm for Quantum Applications.....	447
<i>Tigran Mansuryan, Lamine Ferhat, Johan Boulet, Sébastien Février</i>	
Generation of 1300-Nm Femtosecond Laser Based on the Optical Parametric Amplification with Dual 1560-Nm CPA Laser System.....	448
<i>Rong Xu, Yizhou Liu, Aimin Wang</i>	

Generation of Sub 50-Fs Pulses at 920 nm by Frequency-Doubling Using an Aperiodically-Poled Lithium-Niobate Crystal.....	449
<i>Robert Herda, Axel Friedenauer</i>	
Highly Sensitive Dispersion Characterization of Silicon Nitride Waveguides Using Femtosecond Time-Of-Flight Measurements	450
<i>Nathalie Vermeulen, Ryu Niigaki, Takashi Inoue, Hugo Thienpont, Koyo Watanabe</i>	
Spatio-Temporal Couplings in Ultrashort Vortex Pulses Generated by Spiral Phase Plates.....	451
<i>Erick R. Baca-Montero, Volodymyr I. Fesenko, Oleksiy V. Shulika</i>	
Nonlinear Polarization Rotation in Bulk Multipass Cells for Mode-Locking Applications	452
<i>Semyon Goncharov, Marius Puetz, Oleg Pronin</i>	
Implementation of a Single-Shot Dispersion Scan at 2 μm for Optimizing a High-Power Few-Cycle OPCPA Source.....	453
<i>Caroline Juliano, Ivan Sytceвич, Roya Garayeva, Daniel Díaz Rivas, Miguel Canhota, Chen Guo, Anne-Lise Viotti, Anne L'Huillier, Cord L. Arnold</i>	
Advancing Few-Cycle Pulse Diagnostics with the Amplitude Swing Method.....	454
<i>Miguel López-Ripa, Óscar Pérez-Benito, Benjamín Alonso, Rosa Weigand, Íñigo Sola</i>	
Bulk Lateral Shearing Interferometry Applied to Spatiotemporal Pulses in the Visible and Near-Infrared	455
<i>Miguel López-Ripa, Cristian Barbero, Íñigo Sola, Benjamín Alonso</i>	
1.5 mJ, 350 Fs Spectral Broadening in a Gas-Filled Concave-Convex Multipass Cell.....	456
<i>Kevin Schwarz, Christoph Fenzl, Tomin Joy, Kilian Fritsch, Valdas Maslinskas, Oleg Pronin</i>	
Electro-Optic Frequency Combs for High Flux X-Ray Generation Via High-Intensity Laser-Particle Interactions at CERN.....	457
<i>Eva Roiková, Andrea Latina, Vlad Musat, Vitaliy Goryashko, Eduardo Granados</i>	
Temporal Contrast Enhancement of Gemini Laser System with a Nonlinear Temporal Filter at the Front End.....	458
<i>O. Chekhlov, S. Hawkes, Y. Tang, C. Hernandez-Gomez, P. P. Rajeev</i>	
Calculation of Phase Aperture Kerr-Lens Mode-Locking	459
<i>Masaki Tokurakawa, Ayu Konno</i>	
Simultaneous Linear and Nonlinear Optical Autocorrelation Measurement with Fabry-Pérot Laser Diodes.....	460
<i>Adrian F. Chlebowski, Lukasz A. Sterczewski, Jaroslaw Z. Sotor</i>	
Discovery of a Hybrid Exciton State by Attosecond Spectroscopy.....	461
<i>Simone Bonetti, Nicola Di Palo, Giacomo Inzani, Gian Luca Dolso, Matteo Talarico, Martin Zakerstein, Giacomo Fiorentini, Rocío Borrego-Varillas, Mauro Nisoli, Marco D'Alessandro, Nicolas Tancogne-Dejean, Umberto De Giovannini, Davide Sangalli, Matteo Lucchini</i>	
Subcycle Band-Structure Videography of Graphene	462
<i>Vincent Eggert, Giacomo Inzani, Manuel Meierhofer, Jakob Helml, Lasse Münster, Robert Wallauer, Sarah Zajusch, Suguru Ito, Leon Machil, Hao Yin, Christian Kumpf, François C. Bocquet, Changhua Bao, Jens Gödde, F. Stefan Tautz, Rupert Huber, Ulrich Höfer</i>	
Quantum Tomography of Nonperturbative Harmonic Light from Solids.....	463
<i>Ido Nisim, Zhaopin Chen, Ido Kaminer, Michael Krüger</i>	

Entangled Bright States of Light Via with Matter-Light-Correlations in Harmonic Generation.....	464
<i>Ihar Babushkin, Sili Yi, Olga Smirnova, Misha Ivanov</i>	
Attosecond Magnetic Pulses from Ring-Current Gating Schemes.....	465
<i>Alba De Las Heras, Franco P. Bonafé, Carlos Hernández-García, Angel Rubio, Ofer Neufeld</i>	
Fast Spectroscopic Imaging Using Extreme Ultraviolet Interferometry.....	466
<i>G. S. Matthijs Jansen, Hannah C. Strauch, Fengling Zhang, Stefan Mathias, Thorsten Hohage, Stefan Witte</i>	
Unveiling Photoinjection Dynamics.....	467
<i>Vladislav S. Yakovlev, Manoram Agarwal</i>	
From In-Situ Sub-Cycle Pulse Characterization to Quantitative in Silico High-Harmonic Generation Predictions	468
<i>Rafael De Q. Garcia, Fabian Scheiba, Maximilian Kubullek, Roland E. Mainz, Naglis Kriunas, Miguel A. Silva Toledo, Giulio Maria Rossi, Franz X. Kärtner</i>	
Exploring the Effects of Pulse Duration on High-Order Harmonic Generation with Tunable Multi-Pass Cell Post-Compression	469
<i>Saga Westerberg, Melvin Redon, Ann-Kathrin Raab, Gaspard Beaufort, Marta Arias Velasco, Chen Guo, Ivan Sytceovich, Robin Weissenbilder, Cord Arnold, Anne L'Huillier, Anne-Lise Viotti</i>	
Relativistic High-Harmonic Generation from Liquid Leaf Targets at kHz Rate	470
<i>Antoine Cavagna, M. Eder, J. Kaur, A. Kalouguine, S. Haessler, E. Chowdhury, Rodrigo Lopez-Martens</i>	
Ion-Based Hard X-Ray High-Harmonic Generation with a Transverse Disruptive Pulse for Quasi-Phase-Matching.....	471
<i>Hsu-Hsin Chu, Yao-Li Liu, Shin-Chi Kao, Chih-Hao Pai</i>	
A High Repetition-Rate High Harmonic Generation Setup for Time-Resolved Molecular Spectroscopy	472
<i>Lorenzo Pratolli, Katinka Horn, Erik Månsson, Fabio Frassetto, Luca Poletto, Laura Silletti, Ammar Bin Wahid, Ana Olivera E Silva, Teodora F. Grigorova, Christian Brahms, John C. Travers, Christoph M. Heyl, Terry Mullins, Vincent Wanie, Francesca Calegari</i>	
Stabilization of an Ultrathin Liquid Sheet Target System for Ion Acceleration at 1 kHz Repetition Rate.....	473
<i>Tibor Gilinger, Elod Buzás, Máté Karnok, Attila P. Kovács, Ádám Kovács, Botond Bencsik, Károly Osvay</i>	
The KALDERA Ti:Sapphire Drive-Laser for Laser Plasma Acceleration at High Repetition Rates	474
<i>G. Palmer, Juan B. González-Díaz, T. Eichner, C. Braun, M. Jiang, T. Hülsenbusch, C. Werle, L. Winkelmann, C. Vidoli, A. Yousefi, M. Schnepf, M. Kirchen, W. Leemanns, A. R. Maier</i>	
Fiber-Based High-Energy 1550 nm Laser for Generating High-Order Harmonics.....	475
<i>Anastasiia Mikhneva, Djamilia Boukhaoui, Said Idlahcen, Jonathan Houard, Ivan Blum, Thomas Godin, Leo Guiramand, Foued Amrani, Frédéric Gérôme, Fetah Benabid, David Gauthier, Hamed Merdji, Willem Boutu, Angela Vella, Ammar Hideur</i>	
Recent Developments on the High Repetition Rate Petawatt Laser of ELI ALPS.....	476
<i>Roland S. Nagymihály, Levente Lehotai, Viktor Pajer, János Bohus, Nóra Csernus-Lukács, Balázs Tari, Mikhail Kalashnikov, Franck Falcoz, David Armier, Philippe Demengeot, Ádám Börzsönyi</i>	

Progress in Optical Synchronization for 2×10 PW Laser System at ELI-NP	477
<i>Daniel Ursescu, Andrei Nazú, Alice Dumitru, Stefan Popa, Dan Gh. Matei, Cristian Alexe, Ioan Dancus, Ana-Maria Lupu, Dmitrii Nistor, Antonia Toma, Lidia Vasescu, Claudiu A. Stan</i>	
Strong Field Electron Emission Driven by a Bright Squeezed Vacuum.....	478
<i>Andrei Rasputnyi, Jonas Heimerl, Jonathan Pöllöth, Stefan Meier, Francesco Tani, Maria Chekhova, Peter Hommelhoff</i>	
Simultaneous Referencing in Attosecond Transient Spectroscopy Via Application of Predictive Neural Networks.....	479
<i>Marko Hollm, Sergej Neb, Florence Burri, Lukas Gallmann</i>	
High Contrast, Ultrabroadband, Hybrid Frontend for Next Generation High Intensity Laser Systems.....	480
<i>Roland S. Nagymihály, Mikhail Kalashnikov, Levente Lehotai, Viktor Pajer, János Bohus, Nóra Csernus-Lukács, János Csontos, Szabolcs Tóth, Balázs Tari, Ernestas Kucinskas, Ignas Balciunas, Tomas Stanislauskas, Ádám Börzsönyi</i>	
Proof-Of-Concept Experiment on Quasi-Phase-Matching of High-Order Harmonic Generation Using a Transverse Disruptive Pulse and Selected-Zoning Method.....	481
<i>Yao-Li Liu, Shin-Chi Kao, Yi-Yong Ou Yang, Zhong-Ming Zhang, Hsu-Hsin Chu</i>	
Characterisation of Liquid Solution Sheets from Various Nozzle Diameters for Laser Ion Acceleration.....	482
<i>Attila P. Kovács, Máté Karnok, Noémi Tóth, Tibor Gilinger, Javaria Razzaq, Károly Osvay</i>	
Laser-Driven X-Ray Sources at ELI Beamlines: Recent Results from Commissioning and User Operation.....	483
<i>O. Hort, U. Chaulagain, T. Parkman, L. Jurkovicová, M. Lamac, J. Vábek, A. Morabito, Y. Pulnova, M. Stanek, M. Raclavský, J. Nejd</i>	
Maximizing Conversion Efficiency in $3 \mu\text{m}$ Optical Parametric Chirped Pulse Amplifier with Pulse Front Tilt.....	484
<i>Pritha Dey, Lutz Ehrentraut, Johannes Tümmler, Stefan Eisebitt, Matthias Schnürer</i>	
Effect of Light Ellipticity on the Laser Excitation and Energy Absorption by Fused Silica: Ab Initio Simulations and Experimental Measurements.....	485
<i>Thibault J.-Y. Derrien, Peter Jürgens, Mark Mero, Marc J. J. Vrakking, Alexandre Mermillod-Blondin</i>	
Closed-Loop Noble Gas Recycling System for Cost-Effective High-Harmonic Generation.....	486
<i>J.-H. Oelmann, L. Guth, T. Heldt, T. Pfeifer, J. R. Crespo López-Urrutia</i>	
A High Repetition HHG Source of Ultrafast XUV Pulses for the SXP Instrument at the European XFEL.....	487
<i>Pranav Bhardwaj, Patrik Grychtol, Michael Heber, David Doblas-Jiménez, Vahagn Vardanyan, Serguei Molodtsov, Manuel Izquierdo</i>	
Controlled Particle Acceleration in Low-Density Gas Plasma Using THz Standing Waves.....	488
<i>Szabolcs Turnár, Zoltán Tibai, László Pálfalvi, Gábor Almási, Csaba Korpa, János Hebling</i>	
Machine Learning-Based Stoichiometric Analysis of BaSrTiO ₃ (BST) Via Synthetic LIBS Spectra Generated from a Two-Zone Plasma Model.....	489
<i>Amogh M S, Sebin Sebastian Xavier, Jeena Rose Jose, P R Biju, Reji Philip</i>	
Time Modulated Illumination for Single Molecule Localization Microscopy	490
<i>A. Illand, F. Matos, M. Lengauer, P. Jouchet, E. Fort, S. Lévêque-Fort</i>	

Three-Photon Image-Scanning-Microscopy Enabling Deep Super-Resolution Imaging	491
<i>Anton Classen, Stanislav Vitha, Mia Pacheco, Dylan McCreedy, Alexei V. Sokolov, Girish S. Agarwal, Aart J. Verhoef, Alma Fernández</i>	
Structured Detection for Enhanced Resolution and Optical Sectioning Microscopy	492
<i>Alessandro Zunino, Giacomo Garrè, Eleonora Perego, Sabrina Zappone, Mattia Donato, Nadine Vastenhouw, Giuseppe Vicidomini</i>	
Multidimensional Coherent Imaging Spectroscopy of Transition Metal Dichalcogenides	493
<i>Steven T. Cundiff</i>	
Broadband Hyperspectral SRS Microscopy with Fiber and Solid-State Sources for Bioimaging and Semiconductor Inspection	494
<i>Shun Takahashi, Kento Kamei, Kenichi Oguchi, Kazuhiro Kuruma, Spencer J. Spratt, Hikaru Akaboshi, Yusuke Wakamoto, Takuya Maeda, Yasuyuki Ozeki</i>	
Hadamard-Multiplexed Multispectral Fluorescence Microscopy.....	495
<i>Emma X. Abbey, Hans-Peter Looch</i>	
NIR Multispectral Image Fusion Technique for Epigraphic Analysis of Archaeological Finds.....	496
<i>Yossef Danan, Amir Shemer, Wael Abed Al-Haq, Orel Shlezinger, Ori Gleisner, Ariel Schwarz</i>	
Using Speckle Suppression Approach for Improving Interrogation of Step-Index, Multimode Optical Fiber Bragg Gratings	497
<i>Ivan Chapalo, Andreas Ioannou, Vasilis Sarakatsianos, Kyriacos Kalli, Stavros Pissadakis</i>	
Fibre Vector Bend Sensor Based on Femtosecond Laser-Written Integrated Optical Coupler with Bragg Gratings	498
<i>Anastasiia Koidan, Timothy Lee, Robert R. Thomson, Gilberto Brambilla, Martynas Beresna</i>	
Temperature-Insensitive Fibre Bragg Grating	499
<i>Zipei Song, Mohan Wang, Frank P. Payne, Patrick S. Salter, Tongyu Liu, Steve J. Elston, Martin J. Booth, Stephen M. Morris, Julian A. J. Fells</i>	
Tilted FBG Sensing in Microfluidic Chips Through Spectral Discretization.....	500
<i>Lucero M. Hernandez-Cedillo, Ander Zornoza, Joseba Zubia, Joel Villatoro</i>	
Multichannel Chromatic Dispersion Measurement Using Long-Period Fibre Gratings : Tests of Wine Fermentation Monitoring	501
<i>Thomas Allsop, Andreas Ioannou, Kyriacos Kalli, Evelyne Aguera, Alain Samson, Peggy Riggou, Bernard Dussardier</i>	
Next-Generation Photonic Integrated Interrogators for Accurate Vital Signs Monitoring	502
<i>Aleksandra Bieniek-Kaczorek, Stanislaw Stopinski, Krzysztof Anders, Anna Jusza, Krzysztof Wojtiuk, Ryszard Piramidowicz</i>	
Virtual Staining of Label-Free Tissue.....	503
<i>Aydogan Ozcan</i>	
Hybrid Deep-Neural Network in Digital Holographic Microscopy	504
<i>Rémi Kieber, Maxime Jacquot</i>	
All-Fiber Microendoscopic Polarization Sensing at Single-Photon Level Aided by Deep-Learning.....	505
<i>Martin Bielak, Dominik Vašinka, Miroslav Ježek</i>	

High-Resolution and High-Speed EUV Ptychography: Quantitative Imaging with Enhanced Material Contrast.....	506
<i>Chang Liu, Leona Licht, Wilhelm Eschen, Daniel S. Penagos Molina, Jens Limpert, Jan Rothhardt</i>	
High-Speed Computational Imaging with Path-Corrected Fly-Scan Ptychography.....	507
<i>Augustas Karpavicius, Matthias Gouder, Jacob Seifert, Aaron Rivera Sanchez, Stefan Witte</i>	
Ptychographic Imaging Ellipsometry with Visible and Extreme Ultraviolet Light.....	508
<i>Matthias Gouder, Fengling Zhang, Mengqi Du, Stefan Witte</i>	
Incoherent Lateral Shearing Digital Holographic Microscopy.....	509
<i>Jaromír Behal, Miroslav Ježek</i>	
Infrared Digital Holography for Structural Analysis of Historical Structures	510
<i>Eugenio Pugliese, Massimiliano Locatelli, Giorgio Lacanna, Riccardo Meucci</i>	
3-Watt, 3-Optical-Cycle Mid-IR Cr:ZnS Laser System for High Performance Dual Comb Spectroscopy	511
<i>Sergey Vasilyev, Igor Moskalev, Yury Barnakov, Mike Mirov, Andrey Muraviev, Dmitrii Konnov, Roderik Krebbers, Simona Cristescu, Konstantin Vodopyanov</i>	
Bicolor Fiber-Cavity-Enhanced Dual-Comb Spectro-Microscopy.....	512
<i>Bingxin Xu, Stephan Fraundienst, Sambit Mitra, Rute Fernandes, Michael Förg, Thomas Hümmer, Theodor W. Hänsch, Nathalie Picqué</i>	
Dual-Comb-Spectroscopy for Rare-Earth-Element Detection	513
<i>Christina Hofer, Andrew Jarymowycz, Hope Dannar, John J. McCauley, Errol Bowman, Dylan P. Tooley, Avery Wong, Arthur K. Mills, Mark C. Phillips, R. Jason Jones, David J. Jones</i>	
Time and OAM-Resolved Pump-Probe Measurement with Ultrawide Temporal Dynamic Range Using Dual-Comb Asynchronous Optical Sampling Technique.....	514
<i>Akifumi Asahara, Kaoru Minoshima</i>	
Wide-Range Luminescent Thermometer Based on Periodic Layer ALD-Encapsulated Ga ₂ O ₃ :Cr Optical Microcavities	515
<i>Manuel Alonso-Orts, Ruben J. T. Neelissen, Daniel Carrasco, Marco Schowalter, Andreas Rosenauer, Emilio Nogales, Bianchi Méndez, Martin Eickhoff</i>	
Electrode Optimization for on Chip Resonant Electro-Optic Frequency Combs	516
<i>Andrea Volpini, Samuel Häusler, Giovanni Finco, Gaoyuan Li, Charles Caër, Jannis Serge Holzer, Hamed Sattari, Homa Zarebidaki, Ivan Pietro Gonzales, Peter Niklaus, Steve Lecomte, Rachel Grange, Christoph Wildfeuer, Davide Grassani</i>	
High-Speed Tunable Interferometric Spectral Shaper for VCSEL Manufacturing Inspection	517
<i>Antoine Rouxel, Karim Ben Saddik, Stéphane Calvez, Antoine Monmayrant, Guilhem Almuneau</i>	
Optical Frequency Reconstruction with Microcavity Assemblies.....	518
<i>Anton Saetchnikov, Andreas Ostendorf</i>	
Towards Fully Loss-Corrected SRS Imaging	519
<i>Nick S. Lemberger, Kristin Wallmeier, Carsten Fallnich</i>	

Detection of Cotinine (Spiked in Human Urine) Using Plasmonic Quasi Crystal as SERS-Active Substrate	520
<i>Sibashish Chakraborty, Rishabh Vij, Venu Gopal Achanta, Satish Kumar Dubey</i>	
Whispering-Gallery Mode Enhanced SERS Sensing	521
<i>Davide D'Ambrosio, Naveed Ahmed Chishti, Benedetta Catalano, Giulia Rusciano, Antonio Sasso, Gianluca Gagliardi</i>	
Optimization of Laser Induced Periodic Surface Structures for Surface Enhanced Raman Spectroscopy of Extracellular Vesicles.....	522
<i>Simon A. Barter, Neil G. R. Broderick, Francesco Merola</i>	
Polarization-Sensitive Single-Object Microscopy Reveals the Structure of a Synthetic Light-Harvesting Complex.....	523
<i>Maxim S. Pshenichnikov, Alexey V. Kuevda, Mónica K. Espinoza Cangahuala, Richard Hildner, Thomas L. C. Jansen</i>	
Microscopic Magnetic Field Imaging with Hot Atoms	524
<i>Jordan Brass, Sebastian J. B. Bisdee, Mohammed T. Rasheed, Carrie Weidner, Cyril Torre</i>	
Imaging the Reflection Phase of Nanophotonic Structures	525
<i>Niels F. L. Alferink, Melissa J. Goodwin, Victor Barolle, Paul Balondrade, Alexandre Aubry, Ad Lagendijk, Willem L. Vos</i>	
Ultra-Wideband Portable MEMS FTIR Spectrometer Towards the MIR Spectral Fingerprint Region	526
<i>Mazen Erfan, Mohamed G. Mahmoud, Kirillos E. Matta, Mohamed A. Mousa, Ahmed S. Kishka, Islam Samir, Mohamed H. Al Haron, Mina Gad, Bassem Mortada, Tarik Bourouina, Yasser M. Sabry</i>	
Aperture-Less Stimulated Raman Photothermal Microscopy in Epi-Configuration	527
<i>Kristin Wallmeier, Nick Lemberger, Carsten Fallnich</i>	
Passive On-Chip Tri-Axial Fiber-Optic Accelerometer with Nano-G Level Noise Floor	528
<i>Minzhi Hong, Kuangqi Li, Jiakang Xu, Shiyu Yan, Yuhan Xiao, Ping Lu, Chaotan Sima</i>	
Affordable High-Frequency Interrogation of Optical Fiber Speckle Sensors with Event-Based Cameras.....	529
<i>Tomás Lopes, Joana Teixeira, Catarina Monteiro, Tiago Ferreira, Nuno A. Silva</i>	
Scalable High-Fidelity Photon Detection Using a 20-Channel Spatially-Multiplexed SNSPD Array	530
<i>O. P. Page, I. Konyshv, K. Welz, W. Pernice, S. Ferrari</i>	
Mesoscopic Theory of Wavefront Shaping to Focus Waves Deep Inside Disordered Opaque Media	531
<i>Bart A. Van Tiggelen, Ad Lagendijk, Willem L. Vos</i>	
Optical Detection of Single Sub-15 nm Objects Using Elastic Scattering Strong Coupling.....	532
<i>Mohammadreza Aghdaee, Oluwafemi S. Ojambati</i>	
Multidimensional Fluorescence Spectroscopy for Chemical Chromatography.....	533
<i>Hans-Peter Loock, Monique Bueno, Travis Ferguson, Sarah Klose, Adam Bernicky</i>	
Generation and Detection of Optoacoustic Waves in Liquids by the Photothermal Lens Technique.....	534
<i>Eduardo V. Bergmann, Gustavo V. B. Lukasiewicz, Bernhard Lendl, Anderson R. Sampaio, Vitor S. Zanuto, Mauro L. Baesso, Luis C. Malacarne, Nelson G. C. Astrath</i>	
Simultaneous Multichannel A-Scans in Photonic Time Stretch OCT	535
<i>Weiqing Liao, Shouju Liu, Chao Wang</i>	

Extreme Amplification in Ultrasensitive Interferometric Phase Metrology	536
<i>Andreu Molina-García, Adolfo Esteban-Martín, José Angel Picazo Bueno, Fernando Silva, Javier García-Monreal, Germán J. De Valcárcel</i>	
Laser Machining of Micro-Channels in Hollow-Core Optical Fibers for Improved Gas Exchange	537
<i>Timothy Lee, Andres M. Biondi V., Thomas W. Kelly, Martynas Beresna, Ian A. Davidson, Radan Slavík, Natalie V. Wheeler</i>	
Integrated UV-C Source-Sensor Platform Based on Efficient Ultrafast Fourth Harmonic Generator and Two-Dimensional Sensor.....	538
<i>Tim Klee, Benjamin T. Dewes, Nathan D. Cottam, Joseph J. Broughton, Mustaqeem Shiffa, Tin S. Cheng, Sergei V. Novikov, Oleg Makarovskiy, Amalia Patané, John W. G. Tisch</i>	
Random Temporal Signals (RATS) Method for Measuring High-Reflectance Coatings Via a Cavity Ring-Down Configuration.....	539
<i>Jiri Junek, Karel Židek</i>	
AI-Enabled Optical Inspection of Microoptics Integration with Photonic MEMS Chips for Wideband FTIR Spectroscopy.....	540
<i>Ali Khater, Ahmed Abdelkhalek, Mohamed Metwally, Omar El Nahhas, Mohamed Ismail, Hoda El Gibally, Ahmed Mostafa, Mazen Erfan, Mohamed H. Al Haron, Bassem Mortada, Momen Anwar, Yasser M. Sabry</i>	
Quantitative Schlieren Xray Tomography for the 3D Determination of Chemical and Structural Composition of Batteries.....	541
<i>Herve Hugonnet, Kyeoreh Lee, Jo Sugeun, Jun Lim, Yongkeun Park</i>	
Cross-Talk Simulation for an FBG-Based Underwater Acoustic Sensor Array Using VPI Photonics	542
<i>Omer Faruk Dinc, Faruk Uyar, Tolga Kartaloglu, Ekmel Ozbay, Ibrahim Ozdur</i>	
Compressive Ghost Imaging with Customized Speckles	543
<i>Elif Sünnetci, Hakan Alici, A. Serhan Basdemirci, Hasan Yilmaz</i>	
Microring Resonator Based Force Sensor, with Real-Time Temperature-Induced Resonance Shift Cancellation.....	544
<i>Sahar Safarloo, Wouter Westerveld, Peter G. Steeneken, Amir A. Zadpoor, Mohammad J. Mirzaali</i>	
Miniature Mid-IR Spectrometer Based on a Ge-Si Photonic Integrated Circuit and a Linear Detector Array for Trace Gas Detection	545
<i>Filip Labaj, Jerzy Kalwas, Stanislaw Stopinski, Krzysztof Anders, Rafal Ciechanski, Krzysztof Machalowski, Ryszard Piramidowicz</i>	
Efficient Production of Photon Bunching from Laser Light for Rangefinding	546
<i>Darren Ming Zhi Koh, Xi Jie Yeo, Justin Yu Xiang Peh, Christian Kurtsiefer, Peng Kian Tan</i>	
3D-Printed Assembly Including Micro-Optics for Efficient Direct Light Coupling	547
<i>Muhammad Shaukat Khan, Ivan Shishkin, Ali Roshanghias, Andreas Tortschanoff</i>	
Chirped-Pulse Φ -OTDR and Seismic Noise Interferometry: Enhancing Distributed Optical Sensing for Seismic Applications.....	548
<i>Jorge Canudo, Javier Preciado-Garbayo, Pascual Sevillano, Jesus Subias, Miguel Gonzalez-Herraez, Hugo F. Martins, Beatriz Gaité-Castrillo, Jose Benito Bravo-Monge, Irene De Maria, Miguel Rodriguez-Plaza</i>	
On the Impact of Distortions in Coded Hyperspectral Systems	549
<i>Léo Paillet, Antoine Rouxel, Hervé Carfantan, Simon Lacroix, Antoine Monmayrant</i>	

Two-Photon Bessel Beam Light-Sheet Microscopy with Time-Domain Ptychography.....	550
<i>Imraan Badrodien, Pieter Neethling, Gurthwin Bosman</i>	
Multicolor Wavefront Shaping	551
<i>L. Bert Mulder, Maël Hubert, Tamara A. M. Tromp, Ad Lagendijk, Willem L. Vos</i>	
Single-Shot Measurement of Electron Density Distribution Under Ultrashort Laser Pulse Irradiation.....	552
<i>Seitaro Kumo, Tomohiro Fukui, Qinru Zheng, Nobuhiro Kaku, Yuta Teshima, Kenta Tokumi, Jyunya Hattori, Yanming Zhang, Yusuke Ito</i>	
Incoherent Diffraction Imaging with Pseudo-Thermal Light Sources.....	553
<i>Peer Biesterfeld, Pablo San Miguel Claveria, Sebastiao Antunes, Matilde Fernandes, Matilde Garcia, Matilde Nunes, Lucas Ansia Fernandez, Gareth O. Williams, Sven Fröhlich, David Theidel, Philip Mosel, Ihsan Fsaifes, Andrea Trabattoni, Marco Piccardo, Jean-Christophe Chanteloup, Milutin Kovacev, Hamed Merdji, Marta Fajardo</i>	
Development of a Portable Optical Frequency Comb and Application to Open-Path Atmospheric Measurement	554
<i>Ryo Mitsumoto, Kazumichi Yoshii, Shin-Ichi Yamamoto</i>	
Electro-Optic Frequency Comb Spectroscopy Using Tailored Reconfigurable Modulation.....	555
<i>Jordi Navarro-Alventosa, Vicente Durán</i>	
Wavefront Shaping with Varying Degrees of Freedom	556
<i>Maël Hubert, L. Bert Mulder, Timon J. Vreman, Tamara A. M. Tromp, Ad Lagendijk, Willem L. Vos</i>	
Amplified Surface-Enhanced Infrared Absorption Signal Using Analytical Compensation of Information Loss	557
<i>Seongjin Lee, Jongwon Lee</i>	
Simultaneous Measurement of Optical Amplitude and Phase Spectra Using Beam-Scanning Angular Surface Plasmon Resonance Sensor with Heterodyne Interferometry	558
<i>K. Murata, T. Nose, Y. Tokizane, E. Hase, T. Minamikawa, T. Yasui</i>	
Single-Shot Coherent Brillouin Scattering for Gas Particle Velocimetry	559
<i>Stefan Karatodorov, Maria Mitrou, Alexandros Gerakis</i>	
Silicon Photonic MEMS Chip for Photothermal Spectroscopy Gas Sensing	560
<i>Ahmed Mahrous, Mazen Erfan, Johannes P. Waclawek, Ahmed Mostafa, Nicolas Pavy, Frédéric Marty, Elyes Nefzaoui, Yasser M. Sabry, Bernhard Lendl, Tarik Bourouina</i>	
Sensitive Photoacoustic Gas Sensor for NO _x Detection Using Hybrid Resonant Modes	561
<i>Zhiyu Feng, Tailin Li, Wenzhe Wang, Shiyu Yan, Chaotan Sima</i>	
High-Speed CO ₂ Spectroscopy in the Short-Wave Infrared Using a Dual-Comb MIXSEL.....	562
<i>M. Gaulke, M. C. Schuchter, N. Huwlyer, M. Golling, B. Willenberg, C. R. Phillips, U. Keller</i>	
Fast Detection of Multispecies Liquid Evaporation by Mid-IR Broadband Supercontinuum Source and Upconversion Spectrometer.....	563
<i>Yueyu Lin, Paola Formica, Roderik Krebbers, Amir Khodabakhsh, Simona M. Cristescu</i>	
Methods for Temperature Profile Reconstruction from Incomplete Measurements in Incoherent Raman OFDR.....	564
<i>Thibault North, Matteo Ravasi</i>	

Correlation Between Double-Pulse Signal Characteristics and Brillouin Backscatter Spectrum in Optical Fibers	565
<i>Vishwakarma Vishal Santosh, Sumeet Kumar Sinha, Deepak Jain</i>	
Room-Temperature Fourier Transform Spectroscopy from the UV to the THz with a Thin-Membrane Pyroelectric Detector	566
<i>Jakub Mnich, Grzegorz Gomólka, Jaroslaw Sotor, Lukasz A. Sterczewski</i>	
Flat-Top Supercontinuum Laser for C-H Bond Spectroscopy in NIR-III Region	567
<i>Huajun Tang, Jixiang Chen, Xiaoxiao Wen, Yitian Tong, Kenneth K. Y. Wong</i>	
CLEO®/Europe-EQEC 2025 Time-Coupled Mode Theory Optimized Gold Core-Shell Particles for Surface-Enhanced Infrared Absorption	568
<i>Zihao Liu, Jing Ni, Zhouzhuo Tang, Xia Yu</i>	
Exploring the Potential of Fluoride Optical Fibers for Sensing in the Mid-Infrared.....	569
<i>Francesco Anelli, Antonella Maria Loconsole, Sebastien Venck, Francesco Prudeniano</i>	
Complex Speckle Illumination for Quantitative Phase Imaging	570
<i>Aleksandra Ivanina, Maxim Marshall, Ksenia Abrashitova, Tristan Van Leeuwen, Lyubov V. Amitonova</i>	
Real-Time Condition Monitoring of an Uncrewed Aerial Vehicle Using a Scattering-Based Specklemeter Interrogator	571
<i>Przemyslaw Falak, Toby King-Cline, Timothy Lee, Bruno Moog, Pawel Maniewski, Robert Entwistle, Martynas Beresna, Christopher Holmes</i>	
Compressive Photoluminescence Tomography Via 3D Structured Light: Limits of the Method.....	572
<i>Šárka Lisková, Jiri Hlubucek, Karel Židek</i>	
Femtosecond Laser Fabricated Integrated Light Pattern Generator	573
<i>Paolo Maran, Giovanni Castiglioni, Petra Paiè, Alessia Candeo, Abhiram Rajant, Francesco Ceccarelli, Roberto Osellame, Andrea Bassi, Francesca Bragheri</i>	
Fast and Efficient Speckle Customization with Binary Amplitude Modulation.....	574
<i>Hakan Alici, Elif Sünnetci, A. Serhan Basdemirci, Hasan Yilmaz</i>	
Reconfigurable Helico-Conical Beams Based on Coordinate Transformation.....	575
<i>Dongye Xu, Zehui Lu, Meng Guo, Haifeng Liu, Wei Lin, Hao Zhang, Bo Liu</i>	
Surface Scanning of Structured Metal Artefacts with Two-Photon Dual-Comb LiDAR	576
<i>Alexander J. M. Nelmes, Hollie Wright, Derryck T. Reid</i>	
Characterization of 466 nm DFB Laser Diode for Underwater FMCW LiDAR Applications.....	577
<i>Wataru Kokuyama, Hidemi Tsuchida, Yoshiaki Nakajima</i>	
Long-Distance Ranging and Hyperspectral LiDAR Using Free-Running Dual-Comb Lasers	578
<i>L. Lang, S. L. Camenzind, B. Willenberg, J. Pupekis, H. Soghomonyan, A. Nussbaum-Lapping, R. Presl, P. Ray, J. Taher, T. Hakala, A. Kukko, J. Hyypä, A. Wieser, U. Keller, C. R. Phillips</i>	
Three Dimensional Mapping of H ₂ Plumes with Raman LIDAR.....	579
<i>Andrew Lockwood, Charlie Ironside</i>	
Industrial Non-Destructive Inspection by Mid-Infrared Optical Coherence Tomography	580
<i>Coraline Lapre, Christian Rosenberg Petersen, Ole Bang, Niels Møller Israelsen</i>	

Cantilever-Enhanced Photoacoustic – Instrument for Field Measurements of Black Carbon.....	581
<i>Tommi Mikkonen, Juho Karhu, Joel Kuula, Aki Virkkula, Erkki Ikonen, Hilikka Timonen, Markku Vainio, Tuomas Hieta</i>	
Self-Correction for Sensitive Resonant Photoacoustic Gas Analyzer	582
<i>Xuan Wang, Linbo Tian, Yufu Xu, Ke Chen, Liqun Sun</i>	
Detection of Impurities in Hydrogen Using Quartz-Enhanced Photoacoustic Spectroscopy	583
<i>Andrea Zifarelli, Chaofan Feng, Giansergio Menduni, Lei Dong, H. Wu, V. Spagnolo, P. Patimisco</i>	
Photothermal Lens-Based Trace Water Detection in Organic Solvents Using Quantum Cascade Laser as Pump Source	584
<i>Gustavo V. B. Lukasiewicz, Elizandra Sehn, Alicja Dabrowska, Hongtu Cheng, Leopold Lindenbauer, Bernhard Lendl</i>	
In-Fiber Mach–Zehnder Interferometer Sensor for Ultrasound Sensing	585
<i>Ningbo Chen, Shuo Tang, Zhang Jianran, Yulong Cao, Jiqiang Kang, Kenneth K. Y. Wong</i>	
High-Resolution and Broad-Dynamic-Range Fiber Temperature Sensing Via Photopolymer Self-Growing Micro-Cones.....	586
<i>Lingyi Xiong, Wenyu Wang, Jianwei Huang, Shaoxiang Duan, Wei Lin, Hao Zhang, Haifeng Liu, Bo Liu</i>	
Investigations on the Laser Spectral Purity in High-Resolution Distributed Acoustic Sensors Based on Optical Frequency Domain Reflectometry	587
<i>Clément Charliac, Vincent Kemlin, Ines Ghorbel, Luc Pastur, Vincent Crozatier</i>	
Simultaneous Bending and Twist Measurement Using a Simple Multimode Fibre Sensor with Selective Mode Excitation.....	588
<i>Shouju Liu, Yue Feng, Yuanli Yue, Chao Wang</i>	
Enabling Maximum Precision in Polarimetric Fiber Sensors Using Fisher Information	589
<i>Tiago D. Ferreira, Catarina Monteiro, Nuno A. Silva</i>	
Flat Space Fibre Telescope	590
<i>Erez N Ribak, Tzachi Levin</i>	
Optical Wavefront Shaping and Extinction on Small Particles, Clusters, and 3D Finite Samples	591
<i>Ad Lagendijk, Allard P. Mosk, Willem L. Vos</i>	
A New Method for Removing Internal Scattering Noise in iToF Camera.....	592
<i>Yansong Du, Jingtong Yao, Feiyu Jiao, Yuting Zhou, Qiang Jin, Bangyao Wang, Kang An, Zhaoxiang Jiang, Xun Guan</i>	
Light Propagation in Oil-Immersed Weakly Disordered Glass	593
<i>Arnaud Poisson, André Lecomte, Jean-Louis Auguste, Armand Passelergue, Vincent Couderc, Christine Restoin, Alessandro Tonello</i>	
Multimode Imaging with Hollow-Core Fibres	594
<i>K. Harrington, J. G. M. N. Neto, R. Mears, José C. A. Rocha, J. M. Stone, W. J. Wadsworth, A. J. Jesus-Silva, T. A. Birks, D. B. Phillips</i>	
Transverse Doppler Velocimetry of Optically Propelled Microparticles in Anti-Resonant Hollow-Core Fiber.....	595
<i>Rui Wang, Chenjie Liang, Yi Jiang, Shangran Xie</i>	

Impulsively-Driven Motion of 100 nm Particles in Hollow Core Photonic Crystal Fibre at Atmospheric Pressure.....	596
<i>Soumya Chakraborty, Gordon K. L. Wong, Philip St. J. Russell, Nicolas Y. Joly</i>	
Compact, Micro-Optic Hollow Core Fibre Device for Fibre-Enhanced Gas-Phase Raman Spectroscopy	597
<i>Thomas W. Kelly, Ian A. Davidson, Natalie V. Wheeler, Yongmin Jung</i>	
Distributed Few-Mode Fiber Point Sensor.....	598
<i>Lars Grüner-Nielsen, Mads H. Vandborg, Karsten Rottwitt, Mikael Lassen</i>	
In-Situ X-Ray Monitoring Using Specialty Optical Fibers and Determination of Their Synchrotron X-Ray Computed Tomography Imaging Conditions.....	599
<i>Ali Karatutlu, Zehra Gizem Mutlay, Esra Kendir Tekgül, Andriy Budnyk, Gianluca Iori, Philipp Hans, Fareeha Hameed, Bülend Ortaç</i>	
Experimental Demonstration of a Low-Cost Petabit-Per-Second SDM Network Node	600
<i>D. A. Shaji, R. S. Luis, B. J. Puttnam, D. Orsuti, M. S. Neves, B. Boriboon, G. Di Sciullo, Qi Wu, S. Gross, A. Ross-Adams, M. J. Withford, S. Shinada, F. P. Guiomar, P. P. Monteiro, L. Palmieri, A. Marotta, A. Mecozzi, C. Antonelli, H. Furukawa</i>	
Design for Ultra-Low Birefringence in Trench-Assisted Multicore Fibers Via Stress Rod Implementation.....	601
<i>Gustavo Ocampo, Kunimasa Saitoh</i>	
Digital Precoding for Improved Transmission in Multi-Mode Fiber Using Photonic Lanterns	602
<i>S. Rajbhandari, N. M. Mathew, M. P. Yankov, D. Kong, L. Grüner-Nielsen, L. K. Oxenløwe, S. O. Forchhammer</i>	
Broadband and High-Density Interposer Based on Ultrafast Laser Inscribed Waveguides.....	603
<i>Andrew Ross-Adams, Michael J. Withford, Simon Gross</i>	
All-Dielectric Metasurface System for Sorting and Shaping of Orbital Angular Momentum Modes.....	604
<i>Jimmy D. Tran, Andrei Lavrinenko, Toshio Morioka, Leif K. Oxenløwe, Radu Malureanu</i>	
Twisted Talbot Effect: Self-Imaging in Angle and Orbital Angular Momentum.....	605
<i>Matias Eriksson, Jianqi Hu, Benjamin A. Stickler, Sylvain Gigan, Robert Fickler</i>	
Brownian-Bridge Integrated Kramers-Kronig Framework for Orbital Angular Momentum Mode Demultiplexing and Demodulation in Turbulence.....	606
<i>Mariam Alkhatari, Ramzil Galiev, Ravi K. Saripalli, Rashed Alblooshi, Faheem Ahmad, Felix Vega</i>	
Effect of Polarization Mode Dispersion on Spontaneous Parametric Down Conversion Photon Pairs in Coincidence Counting	607
<i>T. J. Walstra, D. J. De Ruiter, C. Okonkwo, T. D. Bradley, P. W. H. Pinkse</i>	
The Rome Quantum Key Distribution Network and the EuroQCI Program.....	608
<i>Carlo Liorni, Giuseppe De Falco, Stefano Pepe, Alessia Suprano, Massimiliano Dispenza</i>	
Quantum Communication with Photonic Integrated Circuits on a CubeSat.....	609
<i>Jonas Pudelko, Ömer Bayraktar, Joost Vermeer, Luca Vill, Imran Khan, Winfried Boxleitner, Stefan Petscharnig, Christoph Pacher, Gerd Leuchs, Christoph Marquard</i>	
Variational Optical Processors.....	610
<i>Charles Roques-Carmes, Aviv Karnieli, David A. B. Miller, Shanhui Fan</i>	

Key Design Issues in Uplink Deep Space Optical Communications.....	611
<i>Giulio Cossu, Ernesto Ciaramella</i>	
PCM Assisted Compact Optical Beamformer: A Step Towards Next-Gen Wireless Communication	612
<i>Nabarun Saha, Giuseppe Brunetti, Caterina Ciminelli</i>	
Demonstration of 3D-Printed Optical Antennas for Pervasive Optical Wireless Communication with Non-Optical, Commercial Materials	613
<i>Mauro Aresti, Marco Meucci, Satoshi Iketani, Cristiana Lofrumento, Caterina Credi, Jacopo Catani</i>	
Fibre-Based Dynamic Speckle Generation for Emulation of Atmospheric Turbulence	614
<i>Debparna Majumder, Kyle R. H. Bottrill, Periklis Petropoulos</i>	
Frequency Agile Dual-Chirp Microwave Waveform Generation with MZM.....	615
<i>Mukund Jha, Atul Khanna, Lakshay Kumar, Rajveer Dhawan, Amol Choudhary</i>	
Ultra-Fast Wavelength Switching DS-DBR Laser with Enhanced Coherence Enabled by Optical Injection Locking	616
<i>Zichuan Zhou, Selina Farwell, Michael Wale, Zhixin Liu</i>	
Dielectric Metasurface Diffraction Neural Network-Based Mode, Wavelength, Polarization Division Demultiplexer	617
<i>Zehui Lu, Shaoxiang Duan, Hao Zhang, Wei Lin, Haifeng Liu, Bo Liu</i>	
Tunable MOEMS Microring Resonator Based on in-Plane Bending Through Rotary Comb Drives	618
<i>Nicolas Hanine, Alessio Buzzin, Lorenzo Giannini, Ahmadreza Alaeddini, Nicola Pio Belfiore, Rita Asquini</i>	
Data Driven Simulation of Semiconductor Optical Amplifiers by Means of bi-LSTM and Transformer Machine Learning Models	619
<i>G. Moustakas, S. Deligiannidis, N. Argyris, S. Dris, P. Bakopoulos, C. Mesaritakis, A. Bogris</i>	
A Novel Air-Gap Ring-Core Fiber for Low Inter-Core Crosstalk and Enhanced Fiber-Fuse Resistance.....	620
<i>Aditi Mehta, Takaaki Minamikawa, Yusaku Ueno, Takeshi Takagi, Kazunori Mukasa, Michael Galili, Leif K. Oxenløwe, Karsten Rottwitt, Toshio Morioka</i>	
Simultaneous Transmission of Baseband and RF Over Fiber	621
<i>Shruti, Rajveer Dhawan, Baljinder Singh Heera, Amol Choudhary, Abhishek Dixit</i>	
Orthogonal Sampling with a Single Photodiode.....	622
<i>Souvaraj De, Janosch Meier, Younus Mandalawi, Ranjan Das, Nora Meyne, Kai Baaske, Thomas Kleine-Ostmann, Thomas Schneider</i>	
MZM-Based FMCW Radar Receiver for Multi-Target Detection.....	623
<i>Lakshay Kumar, Atul Khanna, Mukund Jha, Rajveer Dhawan, Amol Choudhary</i>	
Exploiting Propagation and Polarization Effects of Multimode Fibers for In-Network Physical Layer Key Distribution.....	624
<i>Dennis Pohle, Dominic Fröming, Eduard Jorswieck, Norbert Hanik, Jürgen W. Czariske</i>	
1-Tb/s/3.9-Km FSO Communications with WDM-PAM4 Technology and MEMS-Based Four-Lens Setup.....	625
<i>Chun-Cheng Liang, Yen-Jen Chen, Jia-Hui Chou, Wei-Ting Huang, Feng-Ti Chen, Hai-Han Lu</i>	

Time-Domain Jacobi-Pulse-Sequence Transceiver	626
<i>Paulomi Mandai, Janosch Meier, Gouri Krishnan, Thomas Schneider</i>	
Transition-Based Feedback-Equalizer for Error Mitigation in High-Speed Short-Reach Optical Communication System.....	627
<i>Benedictus Yohanes Bagus Widhianto, Hao-Chun Tsui, Jyehong Chen</i>	
Brillouin-Based Carrier Amplification for Kramers-Kronig Receivers.....	628
<i>Priyanshu Kumar Pandey, Rajveer Dhawan, Baljinder Singh Heera, Amol Choudhary</i>	
Complex Valued Kernels for Mitigation of Signal Distortions in Parametrically Amplified Optical Links.....	629
<i>Long H. Nguyen, Sonia Boscolo, Stylianos Sygletos</i>	
Polarization Dependence of a 100G Simplified PolMux Heterodyne Coherent Receiver for Optical Access Networks	630
<i>D. Izquierdo, P. Sevillano, M. Barrio, N. Herguedas, J. Ciudad-Real, I. Garcés</i>	
Low-Loss Stress-Optic Phase Modulator in Standard Optical Fiber	631
<i>Alice Christian-Edwards, Paolo L. Mennea, Rex H. S. Bannerman, Peter G. R. Smith, Corin B. E. Gawith, Patrick M. Ledingham, James C. Gates</i>	
Ptychographic Imaging with a Fiber Endoscope Via Wavelength Scanning	632
<i>Kyriakos Skarsoulis, Konstantinos Makris, Christophe Moser, Demetri Psaltis</i>	
Ultrafast All-Optical Cross-Switching Schemes as Logical Operations Based on Dual-Wavelength Interaction in Soft Glass Multicore Fiber	633
<i>Sarah P. Alex, Edgar Kaksis, Dariusz Pysz, Ryszard Buczynski, Audrius Pugžlys, Andrius Baltuška, Ignác Bugár</i>	
Heterogeneous III-V-On-SOI EAM for High Speed Communication.....	634
<i>Akeem Safiriyu, Amin Souleiman, Salim Faci, Anne-Laure Billabert, Catherine Algani, Joan Ramirez</i>	
Bias Circuit-Integrated DC-160 GHz Ultra-Broadband Photodetector for Advanced Optical Fiber Communication	635
<i>Toshimasa Umezawa, Shinya Nakajima, Atsushi Matsumoto, Kouichi Akahane, Naokatsu Yamamoto</i>	
High-Speed Lithium Tantalate-Based Silicon Photonic Modulators	636
<i>Margot Niels, Tom Vanackere, Ewoud Vissers, Tingting Zhai, Patrick Nenezic, Jakob Declercq, Cédric Bruynsteen, Shengpu Niu, Arno Moerman, Olivier Caytan, Nishant Singh, Sam Lemey, Xin Yin, Sofie Janssen, Peter Verheyen, Neha Singh, Dieter Bode, Martin Davi, Filippo Ferraro, Philippe Absil, Sathishkumar Balakrishnan, Joris Van Campenhout, Günther Roelkens, Bart Kuyken, Maximilien Billet</i>	
Programmable Photonic Chips as Versatile Physical Unclonable Functions.....	637
<i>Georgios Aias Karydis, George Sarantoglou, Benoit Charbonnier, Olivier Castany, Stéphane Brisson, Quentin Wilmart, Charis Mesaritakis, Adonis Bogris</i>	
Bypassing the Von Neumann Bottleneck Via Direct 300-GHz RF Conversion of Optical Computation Results	638
<i>Junnosuke Kokubu, Ko Sato, Ayaka Yomoda, Satoki Kawanishi, Ryo Sugano, Mantaro Imamura, Hitomi Uemura, Shun Fujii, Taksumi Tanabe</i>	

Efficient High Energy Frequency-Doubled Nanosecond Yb-Doped 49-Core Fiber Laser.....	639
<i>M. Bahri, S. Sarvarzadeh, A. Klenke, C. Jauregui, J. Nold, N. Haarlammert, T. Schreiber, J. Limpert</i>	
976 nm Swept-Source FDML-MOPA Laser for Multiphoton Microscopy	640
<i>Stefan Meyer, Tonio Kutscher, Kimberley Goodwin, Jan Wenzel, Sebastian Karpf</i>	
Dispersion-Less Picosecond Soliton Fiber Laser	641
<i>Mostafa I. Mohamed, Aurélien Coillet, Philippe Grellu</i>	
Efficient Multiphoton Microscopy at Microwatt Power Levels Employing a GMN Amplifier	642
<i>Katarzyna Kunio, Grzegorz Sobon, Jakub Boguslawski</i>	
Repetition-Controllable Gain-Managed Nonlinear Fiber Amplifier for Biological Imaging	643
<i>Duanyang Xu, Jikun Yan, James Read, Sumeet Mahajan, Lin Xu</i>	
Study of the Dynamics of a High-Energy Normal-Dispersion Fiber Optical Parametric Chirped-Pulse Oscillator.....	644
<i>Tristan Guezennec, Saïd Idlahcen, Laurent Provino, Adil Haboucha, Thomas Godin, Ammar Hideur</i>	
Kilowatt Average Powers from a Nanosecond, Polarization Maintaining, Large Mode Area Yb Fiber Amplifier	645
<i>Erin S. Lamb, Jose Pincha, Ishu Goel, Robert S. Windeler, Simona Ovtar, Vasiliy Lukonin, Ian Sun, Shantanu Pandit, Jeffrey W. Nicholson</i>	
Yb-Fiber Nonlinear Ultrafast Amplifier Seeded at Different Wavelengths	646
<i>Sara Pizzurro, Riccardo Gotti, Francesco Canella, Dario Giannotti, Gianluca Galzerano, Antonio Agnesi, Federico Pirzio</i>	
Ytterbium Hybrid Fiber/Bulk 343-Nm Laser System for High Altitude Wind Lidar Measurements.....	647
<i>Jonathan Pouillaude, Pierre Pichon, Xavier Délen, Patrick Georges, Laurent Lombard</i>	
Femtosecond Optical Vortices Generation from an All-Fiber Amplifier	648
<i>Hao He, Weijia Luo, Jiajie Chen, Shan Wang, Di Lin, Songnian Fu, Yuwen Qin</i>	
All-PM Fiber System Based on Soliton Self-Frequency Shift for Ho:YLF Amplifier Seeding	649
<i>Lea Schlotmann, Frithjof Haxsen, Jörg Neumann, Dietmar Kracht</i>	
Repetition Rate and Wavelength Flexible Femtosecond Laser Pulse Generation Based on Nonlinear Optical Gain Modulation.....	650
<i>Zhi Cheng, Jiaqi Zhou, Yan Feng</i>	
Development of Tm-Doped LMA Fibres for High-Power Amplifiers/Lasers Operating in the 2 μ m Spectral Range.....	651
<i>Pavel Honzatko, Jan Aubrecht, Ivo Barton, Martin Grabner, Michal Kamradek, Ivan Kasik, Ondrej Podrazky, Bara Svejkarova, Petr Varak, Pavel Peterka</i>	
Fiber-Based CPA System at 2050 nm with Multi- μ J Pulse Energy at High Repetition Rate	652
<i>Zbigniew Laszcznych, Aleksa Stefanovic, Mathias Lenski, César Jauregui, Jens Limpert</i>	
Multipass Cell Compression of an Ultrafast Tm-Fiber Laser Delivering 1.3 mJ, 130 W, Sub-Two Cycle Pulses at 1.9 μ m	653
<i>Ziyao Wang, Warunya Röder, Tobias Heuermann, Chang Liu, Philipp Gierschke, Yi Zhang, Maximilian Karst, Mathias Lenski, Lucas Eisenbach, Jan Rothhardt, Jens Limpert</i>	

All-Fiberised Picosecond 1.75 μm Thulium Fibre Laser.....	654
<i>Matthew D. Gerard, Ibrahim H. Abughazaleh, Panuwat Srisamran, Duanyang Xu, David J. Richardson, Lin Xu</i>	
High Power Single-Frequency 1762 nm Laser for Barium Ion Optical Qubits.....	655
<i>Said Hamdi, Kentin Poncelet, Coline Lavit, Thomas Dubé, Nicholas Traynor, Giorgio Santarelli, Germain Guiraud</i>	
Multi-Millijoule Nanosecond Fiber Amplifier at 2.8 μm	656
<i>Martin Bernier, Quentin Perry-Auger, Stanislav Leonov, Daiying Zhang, Yigit Ozan Aydin, Darren Kraemer, Réal Vallée</i>	
Amplification of a Single-Frequency Interband Cascade Laser Around 3240 nm Using a Dysprosium-Doped Fluoride Fiber.....	657
<i>Louis-Charles Michaud, Tommy Boilard, Réal Vallée, Martin Bernier</i>	
8.6 W Single-Frequency Fluoride Fiber MOPA at 3.5 μm	658
<i>Lu Zhang, Shijie Fu, Quan Sheng, Junxiang Zhang, Wei Shi, Jianquan Yao</i>	
Q-Switched Mode-Locking in Er-Doped ZBLAN Fibre Laser Employing Carbon Nanotube Saturable Absorber	659
<i>Boris Perminov, Aram Mkrtchyan, Yuriy Gladush, Dmitry V. Krasnikov, Albert G. Nasibulin, Maria Chernysheva</i>	
Spectral Peaking in the Mode-Locked Mid-Infrared Fibre Laser.....	660
<i>Zeqing Li, Jiapeng Huang, Weiyi Sun, Liming Chen, Wei Lin, Cong Jiang, Zhuozhao Luo, Meng Pang</i>	
Suppression of Inter-Pulse Amplified Spontaneous Emission in High Peak Power Amplifier Based on an Er-Yb Doped Fiber	661
<i>Svitlana Pavlova, Emre Yagci, Koray Eken, Emre Altay, Ihor Pavlov</i>	
Compact Ultrafast Fiber Lasers.....	662
<i>Grzegorz Sobon</i>	
Narrow-Bandwidth Dissipative Solitons in the Anomalous Dispersion Regime with Large Spectral Tunability	663
<i>Maolin Dai, Bowen Liu, Yuanjun Zhu, Yifan Ma, Sze Yun Set, Shinji Yamashita</i>	
Few-Mode Energy-Managed Soliton Fiber Laser	664
<i>Mostafa I. Mohamed, Mincheng Tang, Aurélien Coillet, Vincent Couderc, Philippe Grellu</i>	
Pulse Scalability in All-Fiber Energy-Managed Soliton Laser.....	665
<i>Xingliang Li, Mostafa I. Mohamed, Aurélien Coillet, Philippe Grellu</i>	
Self-Starting Thulium-Doped All-Fibre Mamyshev Oscillator	666
<i>Dennis C. Kirsch, Mikhail E. Likhachev, Svetlana S. Aleshkina, Mikhail V. Yashkov, Maria Chernysheva</i>	
Spatial Beam Cleaning in Ytterbium Spatiotemporal Mode-Locked Fiber Laser	667
<i>Guohao Fu, Wasyhun A. Gemechu, Jose A. Alvarez-Chavez, Fabio Mangini, Karolina Stefanska, Stefan Wabnitz</i>	
Integrated Fabry-Perot Output Coupler for Mamyshev Fiber Oscillator.....	668
<i>Riccardo Gotti, Sara Pizzurro, Antonio Agnesi, Antonin Moreau, Julien Lumeau, Federico Pirzio</i>	

Real-Time Observations on Vector Soliton Pair Formation in a Self-Mode-Locked Tm-Doped Fibre Laser.....	669
<i>Dennis C. Kirsch, Anastasia Bednyakova, Maria Chernysheva</i>	
Microjoule Ultrafast Yb-Fiber Laser in Tunable Repetition-Rate	670
<i>Xiangming Xiao, Wenmi Shi, Chenyang Gao, Yang Gui, Gengji Zhou</i>	
GLS Waveguide Array: A Novel Saturable Absorber for Mid-Infrared Mode-Locked Fiber Lasers	671
<i>Ha Trong Thuy, Gayathri Bharathan, Luyi Xu, Alex Fuerbach</i>	
Harmonics Generation in Large-Mode-Area Cr:ZnS Waveguide Amplifier	672
<i>Alexander Rudenkov, Vladimir L. Kalashnikov, Maksim Demesh, Nikolai Tolstik, Evgeni Sorokin, Irina T. Sorokina</i>	
A New Platform for Compact Solid-State Yellow Lasers: Waveguides in Dy,Tb:LiLuF4	673
<i>Davide Baiocco, Ignacio Lopez-Quintas, Javier R. Vázquez De Aldana, Alessandro Di Maggio, Fabio Pozzi, Mauro Tonelli, Alessandro Tredicucci</i>	
From Single to Multiple Solitons in a GaN Mode-Locked Polariton Laser	674
<i>T. Guillet, V. Develay, O. Bahrova, H. Souissi, C. Brimont, L. Doyennette, E. Cambril, S. Bouchoule, B. Alloing, J. Zúñiga-Pérez, T. Ackemann, D. Solnyshkov, G. Malpuech</i>	
All-Fiber Power-Scaling of a Small-Core Thulium-Doped Fiber Laser at 1931 nm.....	675
<i>Jan Lautenschläger, Clément Romano, Dominik Lorenz, Julian Schneider, Dieter Panitzek, Marc Eichhorn, Christelle Kieleck</i>	
Non-Linear Fiber Amplifier for Shaping the Optical Pulses Emitted by a Gain-Switch Laser Diode	676
<i>Jean-Bernard Leourt, Razane Ouarradi, Yves Hernandez</i>	
Watt-Level Ultrafast Praseodymium-Doped Fluoride Fiber Amplifier at 1.3 μm	677
<i>Junya Takano, Tatsuki Yamada, Takao Fuji</i>	
Continuously Tunable Bi-Doped Germanosilicate Fiber Laser from 1400nm to 1479nm	678
<i>Ziwei Zhai, Jayanta K. Sahu</i>	
29 dB Gain Single-Pass Bismuth-Doped Fiber Amplifier Operating in the Short Wavelength Range of the O-Band	679
<i>Serge Dedeyan, Simon Boivinet, Monika Bouet, Vincent Andrieux, Sarah Garzandat, Andy Cassez, Hicham El Hamzaoui, Laurent Bigot</i>	
Watt-Level O-Band Bismuth-Doped Fiber Amplifier	680
<i>Aleksandr Donodin, Dmitrii Stoliarov, Vitaly Mikhailov, Egor Manuylovich, Jiawei Luo, David J. Digiovanni, Sergei K. Turitsyn</i>	
Innovative Pure-Erbium-Doped VLMA Fibers Delivering High Peak Power at 1.5 μm for Eye-Safe Solutions.....	681
<i>Y. Leventoux, B. Leconte, R. Dauliat, S. Vidal, M. Castaing, S. Février, K. Wondraczek, J. Dain, E. Delevaque, R. Jamier, P. Roy</i>	
Yb-Doped Large Mode Area Fibers Produced by Powder Sintering for High Peak Power Narrow-Linewidth Laser Source.....	682
<i>Amélie Chervet, Baptiste Leconte, Guillaume Caussain, Raphaël Jamier, Julien Didierjean, Katrin Wondraczek, Philippe Roy</i>	
Polarisation Properties of Few-Mode Highly Birefringent Fibres.....	683
<i>Konstantin K. Bobkov, Michalis N. Zervas</i>	

Bose-Einstein Beam Condensation in Optical Multimode Fibers	684
<i>Jiaxuan Zhang, Jintao Fan, Chao Mei, Günter Steinmeyer, Minglie Hu</i>	
Tm-Doped Fibers Manufactured Using Direct Nanoparticle Deposition	685
<i>Pauli Kiiveri, Ville Aallos, Juha Harra, Ossi Kimmelma, Mikko Kuusisto, Päivi Kyllönen, Camilla Parviainen, Hannu Husu, Jijo Paul, Steffen Novotny</i>	
Efficiency Scaling of High Power and High Energy Tm-Doped Fiber Lasers	686
<i>Mathias Lenski, Qian Xu, Philipp Gierschke, Ziyao Wang, Tobias Heuermann, Christopher Aleshire, Christian Gaida, César Jáuregui, Jens Limpert</i>	
Ultrafast 2.1- μm Mode-Locked Tm:Ho:ZBLAN Fiber Laser	687
<i>Hiroki Kawase, Nur Atikah Binti Azali, Takao Fuji</i>	
High-Power Actively-Pulse-Shaped 2 mJ Nanosecond-Pulsed Tm ³⁺ -Doped Photonic Crystal Fiber Amplifier Emitting at 2048 nm	688
<i>Julian Schneider, Dominik Lorenz, Clément Romano, Dieter Panitzek, Jan Lautenschläger, Marc Eichhorn, Christelle Kieleck</i>	
Instantaneous Output Power of 0.2 kW Achieved in a Quasi-Continuous-Wave-Pumped Thulium-Doped Fiber Laser	689
<i>Changshun Hou, Ziwei Zhai, Nilotpal Choudhury, Tom Harris, Jayanta K. Sahu, Johan Nilsson</i>	
Monolithic 272W High Efficiency Tm-Doped Nested-Ring Fibre Laser.....	690
<i>Richard Švejkar, Martin P. Buckthorpe, Bára Švejkarová, Peter C. Shardlow, W. Andrew Clarkson</i>	
35 W Core-Pumped Holmium Fiber Laser.....	691
<i>Jan Pokorný, Bára Švejkarová, Jan Aubrecht, Michal Kamrádek, Ivo Barton, Ivan Kašík, Pavel Honzátko, Pavel Peterka</i>	
All-PM Fiber Frequency Combs Delivering 70 fs Pulse at 10 GHz Repetition Rate	692
<i>Simon Boivinet, Debanuj Chatterjee, Alice Houard, Alexandre Kudlinski, Siddharth Sivankutty, Matteo Conforti, Francesco Tani, Arnaud Mussot</i>	
Fully Programmable Kerr Comb Mode-Locked Fiber Laser	693
<i>Alexis Bougaud, Manal Arbat, Bruno P. Chaves, Antonio Cutrona, Arnaud Mussot, Thomas Bunel, Alessia Pasquazi, Benjamin Wetzel</i>	
Relative Intensity Noise Characterization of Supercontinuum Generation in Multimode Fibers	694
<i>Francesca Gallazzi, Inés Cáceres Pablo, Arun Surendran, Zahra Eslami, Goëry Genty</i>	
Compact, Long-Term Stable 3–10 μm MID-IR Supercontinuum Generation from 150-PS Thulium Ultrafast Laser Source	695
<i>Dmitry Gaponov, Vincent Tombelaine, Sébastien Venck, Franck Joulain, Jean Letourneur, Samuel Poulain, Guillaume Huss</i>	
Low-Noise Supercontinuum Using a 1.85 μm fs Pump and a Normal Dispersion ZBLAN Fibre	696
<i>Shreesha Rao D. S., Anupama Rampur, Ole Bang, Alexander M. Heidt</i>	
Supercontinuum Generation with Ultralong Ring Fibre Lasers in Highly Nonlinear Fibres	697
<i>Inés Cáceres, Laura Hernández, Francesca Gallazzi, Pedro Corredera, Goëry Genty, Juan Diego Ania</i>	

Efficient Anti-Resonant Hollow-Core Fiber-Based Pulse Compressor for High-Energy Ytterbium Fiber Laser.....	698
<i>Jikun Yan, Dunayang Xu, Seyed Mohammad Abokhamis Mousavi, Yongmin Jung, David Richardson, Francesco Poletti, Lin Xu</i>	
Demonstration of Deep UV Fiber Delivery Patchcord Down to 213 nm	699
<i>Frédéric Delahaye, Foued Amrani, Maciej Popenda, Ali Al Dhaybi, Kostiantyn Vasko, Ando Randriamahefa, Benoit Beaudou, Frédéric Gerome, Fetah Benabid</i>	
High-Efficiency Flexible Transmission of Broadband Mid-Infrared Ultrafast Pulses in Hollow-Core Photonic Crystal Fibre.....	700
<i>Wei Lin, Zeqing Li, Yuewen Teng, Jiapeng Huang, Yun Zhao, Zhuozhao Luo, Weiyi Sun, Cong Jiang, Ruochen Yin, Yu Zheng, Xin Jiang, Meng Pang</i>	
Self-Phase Modulation Induced Beam Quality Degradation in Hollow-Core Fibers.....	701
<i>Bowen Chen, Tim Kùhlthau, Thomas Graf, Marwan Abdou Ahmed</i>	
Polarization-Maintaining Hollow-Core Fibers for Radially and Azimuthally Polarized Light	702
<i>Tim Kùhlthau, Bowen Chen, Götz Kleem, Thomas Graf, Marwan Abdou Ahmed</i>	
Optimized Compensation of High Third Order Dispersion of Few-Meters-Long Commercially Available Hollow Core Fibres	703
<i>Andrea Villa, Bartłomiej Siwicki, Iacopo Tempra, Martin Engelbrecht</i>	
Overcoming Depolarization in TMI-Limited Polarization-Maintaining Fiber Amplifiers	704
<i>Friedrich Möller, Gonzalo Palma-Vega, Till Walbaum, Thomas Schreiber</i>	
Experimental Investigations on Passive Stabilization of Coherently Combined Multicore Fiber Systems.....	705
<i>Felix Wanitschke, César Jauregui, Arno Klenke, Yahia Khalil, Mehran Bahri, Jens Limpert</i>	
100 W All-Fiber Side-Pump Combiner on a Passive Large-Pitch Photonic Crystal Fiber	706
<i>Yakup Midilli, Bartu Simsek, Bülend Ortaç</i>	
Improvement of Beam Stability in Yb-Doped Tapered Fiber Amplifiers.....	707
<i>Likhachev Mikhail, Mikhailov Egor, Gromova Yulia</i>	
O-Band Mode-Locked Femtosecond Praseodymium-Doped Fluoride Fiber Laser Using a Nickel Metal-Organic Framework	708
<i>Harith Ahmad, Bilal Nizamani, Muhamad Zharif Samion, Saliha Mutlu, Sevil Savaskan Yilmaz, Nergis Arsu, Kavintheran Thambiratnam, Bülend Ortaç</i>	
Efficient Green Ho:ZBLAN Fiber Laser with 450-Nm Diode Pumping.....	709
<i>Esrom Kifle, Pavel Loiko, Solenn Cozic, Thiphaine Rault, Thierry Georges, Gilles Recoque, Alain Braud, Patrice Camy</i>	
Output Power of Noble Gas Fiber Lasers Pumped by Microwave Radiation	710
<i>Igor Bufetov, Alexey Gladyshev, Dmitry Komissarov, Sergey Nefedov, Alexey Kosolapov, Vladimir Velmiskin, Alexander Mineev</i>	
Photoacoustic Spectroscopy Using a Widely Tunable Pulsed Cascaded Raman Fiber Laser.....	711
<i>Abhigyan Goswami, Swathi Padmanabhan, Sarthak Dash, Jaya Prakash, Vr Supradeepa</i>	
Broadband All-Fiber-Based Seed Source for Cryogenic Yb:YLF Amplifiers at 1016 nm	712
<i>Martin Kellert, Sedigheh Malekmohamadi, Marvin Edelmann, Mikhail Pergament, Franz X. Kärtner</i>	

Numerical Modeling of Bi-Doped Phosphosilicate Fiber Amplifiers	713
<i>Michelangelo Federico, Federica Poli</i>	
Widely Tunable O-Band High-Power Laser.....	714
<i>Dmitrii Stoliarov, Aleksandr Donodin, Caolán Murphy, Vitaly Mikhailov, Shane Duggan, Jiawei Luo, David J. Digiovanni, Frank Smyth, Sergei K. Turitsyn</i>	
A ~88% Internal Slope Efficiency of a Ho:ZBLAN Waveguide Chip Laser at 2.1 μm	715
<i>Junha Jung, Yongsop Hwang, Dale E. Otten, Ju Han Lee, David G. Lancaster</i>	
A Fiberized Multichannel ~2.1 μm Ho:ZBLAN Planar Waveguide Laser Array for Atmospheric Transmission Applications	716
<i>Dale E. Otten, Dmitrii Y. Stepanov, David G. Lancaster</i>	
Microring Lasers Based on Single Crystal Er:Gd ₂ O ₃ Thin Films on Silicon	717
<i>Xuejun Xu, Tomohiro Inaba, Takuma Aihara, Atsushi Ishizawa, Takehiko Tawara, Haruki Sanada</i>	
430-Fs Mode-Locked Fiber Laser at 1560 nm Using NiFeP as a Novel Saturable Absorber.....	718
<i>Radomyr Diachenko, Kwanil Lee</i>	
A 20 μm -Core PM Endlessly Single-Mode Photonic Crystal Fiber for Delivery of High-Power Single Frequency Lasers.....	719
<i>S. Vidal, L. Gibert, M. Zambelli, T. Ratel, M. Berisset, L. Provino, A. Monteville, R. Pouyet, O. Le Goffic, S. Claudot, T. Chartier, C. Pierre, M. Castaing</i>	
Temperature-Dependent Emission Spectra Around 800 nm and 1800 nm of the Thulium-Doped Fibers Pumped at 1565 nm	720
<i>Bára Švejkarová, Martin Grábner, Jan Aubrecht, Pavel Peterka</i>	
Dispersion-Managed Compact All-Fiber Ytterbium-Based Mamyshev Oscillator	721
<i>Benedikt Schuhbauer, Frithjof Haxsen, Uwe Morgner, Jörg Neumann, Dietmar Kracht</i>	
Talbot Effect Between Bend-Localised Modes in Multicore Fibre Array	722
<i>Wenhong Lai, Philip St. J. Russell, Yang Chen, Xin Jiang</i>	
Enhancing Microcomb Efficiency Via Pump Recycling in a Chip-Integrated Gain Medium	723
<i>Mahmoud A. Gaafar, Bastian Ruhnke, Thibault Wildi, Markus Ludwig, Alexander Ulanov, Thibault Voumard, Kai Wang, Milan Sinobad, Jan Lorenzen, Henry Francis, Jose Carreira, Michael Geiselmann, Neetesh Singh, Franz X. Kärtner, Sonia M. Garcia-Blanco, Tobias Herr</i>	
Flat Supercontinuum Generation with High-Order Soliton Pre-Compression	724
<i>Minghe Zhao, Ruoao Yang, Xinyi Chen, Haonan Li, Honglei Yang, Aimin Wang, Qian Li, Zhigang Zhang</i>	
Higher-Order Mode Pumping in Erbium-Doped Fiber Amplifiers.....	725
<i>Robert Petersen, Lars Grüner-Nielsen, Poul Kristensen, Karsten Rottwitt</i>	
Ultrashort Power-Dips in Fourier Domain Mode-Locked Lasers: Impact of Picosecond Carrier Recovery.....	726
<i>Özüm Emre Asirim, Robert Huber, Christian Jirauschek</i>	
Optimization of Mode Locking in a Tm-Doped Fiber Oscillator with Frequency Shifted Feedback	727
<i>Pius Marcellinus Eshun, Frithjof Haxsen, Jörg Neumann, Dietmar Kracht</i>	

U-Shaped Relative Intensity Noise Characteristics of High Spectral Purity Higher Order Cascaded Random Raman Fiber Laser	728
<i>Shantanu Dambare, V. Meher, V. Balaswamy</i>	
Ultra-Short-Pulse Laser Beam Delivery Through Inhibited-Coupling Hollow-Core Crystal Fiber at 2 μm	729
<i>Frédéric Delahaye, Alexandre Gorse, Dmitry Gaponov, Vincent Tomblaine, Benoît Beaudou, Guillaume Huss, Frédéric Gérôme, Fetah Benabid</i>	
Low-Noise Supercontinuum in a Normal Dispersion ZBLAN Fibre Employing a Pump with Cascaded Compression.....	730
<i>Shreesha Rao D. S, Anupamaa Rampur, Ole Bang, Alexander M. Heidt</i>	
1.7 μm Flexible Nanosecond Pulse Generation.....	731
<i>Ji-Xiang Chen, Huajun Tang, Xiaoxiao Wen, Yitian Tong, Yang Xiao, Jiqiang Kang, Kenneth Kin-Yip Wong</i>	
Nonlinear Refractive Index of Chalcogenide Glass in the Mid-Infrared Region	732
<i>Satoshi Nakamura, Jonathan De Clermont-Gallerande, Takenobu Suzuki, Yasutake Ohishi</i>	
A Polarization Maintaining Cladding Light Stripper with Ultra-Low Backscattering, Based on 20/400- μm Double Clad Fiber.....	733
<i>Jihwan Kim, Ju Han Lee</i>	
A Dual-Wavelength Pumped 544 W Er/Yb Co-Doped Fiber Amplifier.....	734
<i>Guanzhong Li, Yuexuan Cai, Dan Li, Qirong Xiao, Mali Gong, Ping Yan</i>	
Herriott Cell Optical Isolators and Amplifiers - Rayleigh Length of the Beam Envelope	735
<i>Johann Gabriel Meyer, Andrea Zablah, Kristaps Kapzems, Nazar Kovalenko, Oleg Pronin</i>	
Tunable Phosphosilicate Fiber Oscillator Mode-Locked with a Nonlinear Inline Interferometer.....	736
<i>Gerrit Gercke, Marvin Edelmann, Jingyi Cui, Franz X. Kärtner, Mikhail Pergament</i>	
Hysteresis-Free Piezoelectric Phase Controller for Optical Fibers at kHz Bandwidth for Coherent Beam Combination.....	737
<i>William Kerridge-Johns, Zedi Zhang, Dominic Blackledge, Johan Nilsson</i>	
Intelligent Control of Mode-Locked Fiber Laser Via Residual Neural Network	738
<i>Wei Zhu, Chuhui Zhang, Xueming Liu</i>	
DC-Assisted Reconfigurable Integrated Silicon-Organic Terahertz Detectors.....	739
<i>Francesco Bertot, Alessandro Tomasino, Ileana-Cristina Benea-Chelmus</i>	
Hollow-Core Waveguides for Spectroscopy in the Extreme Ultraviolet	740
<i>Muhammad Thariq, Theodor Strobl, Takashi Sukegawa, Theodor W. Hänsch, Thomas Udem, Akira Ozawa</i>	
TMOKE Coupled Waveguide System: A New Approach for Non-Reciprocal Transmission	741
<i>Kimhong Chao, Fei Mao, Nathalie Bardou, Vy Yam, Laurent Vivien, Béatrice Dagens</i>	
Efficient Phase Shifter with Inkjet-Printed Liquid Crystal on an Integrated Photonics Platform.....	742
<i>Lukas Van Iseghem, Umar Khan, Ewout Picavet, Pierre Edinger, Alain Yuji Takabayashi, Peter Verheyen, Niels Quack, Kirstin B. Gylfason, Klaartje De Buysser, Jeroen Beeckman, Wim Bogaerts</i>	

Subwavelength Metamaterials: From On-Chip Devices to Free-Space Beams.....	743
<i>Robert Halir, Miguel Barona-Ruiz, Alejandro Sánchez-Sánchez, Laureano Moreno-Pozas, Jose Manuel Luque-Gonzalez, Carlos Pérez-Armenta, Pablo Ginel-Moreno, Jose De-Oliva-Rubio, Alejandro Sánchez-Postigo, Alejandro Ortega-Moñux, J. Gonzalo Wangüemert-Pérez, Pavel Cheben, Íñigo Molina-Fernández</i>	
Experimental Demonstration of Ultra-Wideband Tapers, Splitters and Crossings with sub-0.1dB Loss Through Computationally Efficient and Data-Driven Eigenmode Expansion.....	744
<i>Mehmet Can Oktay, Bahrem Serhat Danis, Ujal Rzaev, Emir Salih Magden</i>	
Compact, Low Loss Edge Couplers for Hybrid Integration of Blue Lasers.....	745
<i>Han Wang, Konstantinos Akritidis, Pieter Neutens, Mateusz Hajdel, Henryk Turski, Bart Kuyken, Pol Van Dorpe</i>	
Grating Couplers for Interfacing Ultra-Stable Laser Resonators with Photonic Integrated Chips	746
<i>Max Schittenhelm, Mika Gaedtke, Steffen Sauer, Sebastian Häfner, Stefanie Kroker</i>	
Optical Wavelength Interleaver Using Cross-Coupled and Direct-Coupled All-Pass Filters	747
<i>Sangwoo Kim, Kyoungsik Yu</i>	
Frequency Conversion in Periodically Poled Thin-Film Lithium Tantalate Photonic Integrated Circuits	748
<i>Nikolai Kuznetsov, Zihan Li, Chengli Wang, Tobias J. Kippenberg</i>	
Spontaneous Parametric Down-Conversion Photon Pair Generation in a Small Footprint X-Cut Periodic Poled Lithium Niobate Micro-Resonator	749
<i>Hyeon Hwang, Woojin Noh, Mohamad Reza Nurrahman, Guhwan Kim, Kiwon Moon, Jung Jin Ju, Hansuek Lee, Min-Kyo Seo</i>	
The Piezoelectric Influence on Adiabatic Frequency Conversion in Lithium Niobate Whispering Gallery Resonators	750
<i>Alexander Mrokon, Dongsung Shin, Karsten Buse, Ingo Breunig</i>	
Signal Boosting in Plasmonic Waveguides by Interdigital Transducer-Generated Surface Acoustic Waves	751
<i>Rohit, Kuntal Barman, Liang-Yun Lee, Cheng-Yi Cheng, Jian-Jang Huang</i>	
Enhanced Supercontinuum Spectral Broadening in Thin Film Lithium Niobate Tapered Waveguides	752
<i>Pierre Demongodin, Yesim Koyaz, Christian Lafforgue, Homa Zarebidaki, Davide Grassani, Hamed Sattari, Camille-Sophie Brès</i>	
Grating-Based Polarization Conversion and Mode Hybridization in LiNbO3 Nanophotonic Waveguides.....	753
<i>Tiantong Li, Katia Gallo</i>	
Phase Symmetry Breaking for All-Optical Computing with Microresonators	754
<i>Arghadeep Pal, Alekha Ghosh, Shuangyou Zhang, Lewis Hill, Toby Bi, Pascal Del'Haye</i>	
Photonic Molecule-Based Refractive Index Sensor Using Coupled Fabry-Perot Resonators.....	755
<i>S. Hadi Badri, Davide Monopoli, Artem S. Vorobev, Giovanna Calò, Liam O'Faolain</i>	
Cavity Optomechanics with Polymer-Based Multi-Membrane Structures.....	756
<i>Lukas Tenbrake, Sebastian Hofferberth, Stefan Linden, Hannes Pfeifer</i>	

Propagation of Chiral Whispering Gallery Modes in Microrings Enabled by Tilted Angular Gratings	757
<i>Jinghan Chen, Hayato Matsubayashi, Adrian Abazi, Frederik Van Schoonhoven, Yuji Oki, Carsten Schuck, Hiroaki Yoshioka</i>	
Higher-Order Nonlinear Chirality in AlGaAs Metasurfaces	758
<i>Piyush Jangid, Hong-Gyu Park, Yuri Kivshar, Sergey Kruk</i>	
Metasurface-Based Intelligent Measurement of Total Angular Momentum Spectra for Beams	759
<i>Lang Li, Chunqing Gao, Shiyao Fu</i>	
High-Resolution OAM-Multiplexed Holography Based on Cascaded Metasurfaces	760
<i>Xiao Jin, Thomas Zentgraf</i>	
Multifunctional Diffractive Optical Element for Microcavity Mode Control	761
<i>Antoine Rouxel, Cindy Peralle, Stéphane Calvez, Oliver Gauthier-Lafaye, Antoine Monmayrant</i>	
High-Harmonic Generation Driven by Out-Of-Equilibrium Electron Dynamics in Near-Zero Index Heterogeneous Nanostructures	762
<i>Matteo Silvestri, Ambaresh Sahoo, Luca Assogna, Paola Benassi, Carino Ferrante, Alessandro Ciattoni, Andrea Marini</i>	
Analysis of Phase Modulation Performance in Metasurface Diffusers with Designed Complex Amplitude Transmittance	763
<i>Yuanhao Jiang, Tomohiro Maeda, Tomoya Suzuki, Hideyuki Sotobayashi</i>	
Time-Domain Physical Unclonable Functions Using Ring Resonators	764
<i>L. Van Der Hoeven, D. Stellinga, D. J. De Ruiter, M. C. Velsink, P. W. H. Pinkse</i>	
CLEO®/Europe-EQEC 2025 Highly Performing Chiral Mirror by Multilayer of Anisotropic Media	765
<i>Andrea Alessandrini, Leone Di Mauro Villari, Matteo Venturi, Luca Assogna, Matteo Silvestri, Carino Ferrante, Paola Benassi, Davide Tedeschi, Andrea Marini</i>	
Compact All-Optical Differentiator of Multi-Orders Enabled by a Single-Layer Metasurface.....	766
<i>Niu Liu, Zhelin Lin, Zhenyu Xing, Yuhui Hu, Yuxuan Liao, Xinliang Zhang, Cheng Zhang</i>	
Purcell Effect of Plasmonic Perovskite Scintillators	767
<i>Michal Makowski, Wenzheng Ye, Dominik Kowal, Francesco Maddalena, Christophe Dujardin, Liang Jie Wong, Muhammad Danang Birowosuto</i>	
Interfacing Quantum Dots with Silicon-Nitride Circuits at Telecom Wavelengths Using Photonic Wire Bonding at Cryogenic-Temperatures	768
<i>Daniel Wendland, Ulrich Pfister, Florian Hornung, Lena Engel, Hendrik Hügtnig, Elias Herzog, Ponraj Vijayan, Raphael Joos, Erik Jung, Michael Jetter, Simone L. Portalupi, Wolfram H. P. Pernice, Peter Michler</i>	
Optical Switching Between Resonant Wavelengths of a Gallium Phosphide (GaP) Cavity	769
<i>Daniela Satián-Guamán, Laura Mercadé, Maria Morant, Paula Mourinho, Víctor J. Gómez, Alejandro Martínez, Roberto Llorente</i>	
Characterization of Light Scattering in Microresonator Via Symmetry Breaking of Counterpropagating Light	770
<i>Arghadeep Pal, Alekhya Ghosh, Haochen Yan, Toby Bi, Ibrahim El Mazbouh, Shuangyou Zhang, Lewis Hill, Pascal Del'Haye</i>	

Arrayed Waveguide Gratings on Integrated Thin-Film Lithium Tantalate	771
<i>Shivaprasad U. Hulyal, Jianqi Hu, Chengli Wang, Jiachen Cai, Grigory Lihachev, Tobias J. Kippenberg</i>	
Probabilistic Photonic Computing with Chaotic Light.....	772
<i>Frank Brückerkhoff-Plückelmann, Hendrik Borras, Holger Fröning, Wolfram Pernice</i>	
Electrically Controlled Exceptional Points in Intersubband Polaritonic Metasurfaces	773
<i>Beomjoon Kim, Hyeongju Chung, Gerhard Boehm, Mikhail A. Belkin, Jongwon Lee</i>	
Analog Inverse Discrete Fourier Transform for Optical Pattern Generation Using Thin-Film Lithium Niobate Waveguides with Phase-Change Material	774
<i>Ivonne Bente, J. Rasmus Bankwitz, Daniel Wendland, Wolfram Pernice</i>	
Mid-Infrared Optical Loss Analysis in Thin-Film Lithium Niobate Based on Thickness Gradient Method	775
<i>Hyeon Hwang, Kiyoungh Ko, Min-Kyo Seo, Hansuek Lee</i>	
Silicon Non-Blocking Four-Mode Exchanger Assisted by Mode-Selective Phase Shifter for 2- μ m Waveband	776
<i>Taichi Murastsubaki, Takanori Sato, Kunimasa Saitoh</i>	
Efficient Characterization of Phase Relations in Linear Optical Devices	777
<i>Andrea Crespi, Niki Di Giano, Riccardo Albiero, Francesco Ceccarelli, Roberto Osellame</i>	
Dielectric Metasurface Enabled Multispectral Polarisation Imaging	778
<i>Sarah E. Dean, Neuton Li, Josephine Munro, Robert Sharp, Dragomir N. Neshev, Falk Eilenberger, Andrey A. Sukhorukov</i>	
High Responsivity UV Photodetector Based on ZnO Nanowire Arrays	779
<i>Dana Cristea, Paula Obreja, Roxana Tomescu, Adrian Dinescu</i>	
Pulse-Self-Steepening Via Optical Push Broom.....	780
<i>Boyi Zhang, Maurice Pfeifer, Evgeny Lonshakov, Felix Vega, Manfred Eich, Alexander Yu. Petrov, Mahmoud A. Gaafar</i>	
Deep-Learning Assisted Laser Chip Coupling for Hybrid Integrated Photonics.....	781
<i>Mohamed Alaaeldeen, Ziad Yasser, Khaled Lashin, Hisham Othman, Haitham Omran</i>	
Integrated Optical Circulator in a Silicon Ring Resonator with Two Time-Modulated Regions	782
<i>Arezoo Zarif, Kambiz Jamshidi</i>	
2D Beam Scanning Using Silicon Nitride-Based Optical Phased Array.....	783
<i>Saeed Arsanjani, Muhammad S. Khan, Jochen Bardong, Albert Frank, Lars Zimmermann, Tommaso Cassese</i>	
Implementation of a Spurious Solution Free 8-Band K.p Model for the Identification of Absorption Spectra of InAs Quantum Dots Grown on GaAs.....	784
<i>Ben Jakobs, Dominic Gallagher, Peter M. Smowton</i>	
(3+1)D Printing of Low-Loss Core-Clad Waveguide by Two-Photon Polymerization	785
<i>Raphaël Hazem, Mathis Carpentier, Marc Dussauze, Yannick Petit, Lionel Canioni</i>	
3D Printing for Enhanced On-Chip Stimulated Brillouin Scattering	786
<i>Deepanshu Yadav, Angeliki Afentaki, Moritz Hinkelmann, Thomas Schneider</i>	

Optical Components for On-Chip Interferometric Fiber Optic Gyroscope Using Thin Film Lithium Niobate Platform	787
<i>Anupama T Vasudevan, Sana Fathima, Shankar Kumar Selvaraja</i>	
Ultra Broadband and Super Low-Loss Plug-And-Play Fiber to PIC Connector	788
<i>Erik Jung, Helge Gehring, Frank Brückerhoff-Plückelmann, Clara Vazquez-Martel, Eva Blasco, Wolfram Pernice</i>	
Chirality Dependent Spatially Discriminated Excitations Using Vogel Spirals.....	789
<i>Chung-Kai Tseng, Chao-Yi Tai</i>	
Scandium-Doped Aluminum Nitride (AlScN) Thin-Film as a Piezoelectric Optical Waveguide for Photonic Crystal Slabs.....	790
<i>Fabio Aldo Kraft, Maike Gremmel, Simon Fichtner, Martina Gerken</i>	
Broadband Vortex Waves Generation by All-Dielectric Vogel Metasurface	791
<i>Volodymyr I. Fesenko, Erick R. Baca-Montero, Oleksiy V. Shulika</i>	
Elimination of Dispersion Ripples in a Waveguide Cavity Using Two Slightly Dispersion-Shifted Bragg Gratings	792
<i>Hagen Renner, Hendrik Preuss, Nikita Kondratyev, Thibault Wildi, Felix Vega, Tobias Herr, Manfred Eich, Alexander Yu. Petrov, Mahmoud A. Gaafar</i>	
Nanoimprinted Meta-Mirror Surfaces for Reflection Phase Control for High Resolution Displays.....	793
<i>Yoonjeong Lee, Youngyoon Lim, Soongeun Kwon, Nuri Oh, Seung-Yeol Lee, Hyungjun Lim, Hak-Jong Choi</i>	
Threshold Parameters Optimisation in Bichromatically Driven Microresonators for On-Chip Degenerate Optical Parametric Oscillators.....	794
<i>Nadezhda Tatarinova, Anatoly Masalov, Artem Shitikov, Igor Bilenko, Valery Lobanov, Dmitry Chermoshentsev</i>	
Latent-Symmetric Photonic Systems and Their Eigenmodes.....	795
<i>Jonas Himmel, Max Ehrhardt, Matthias Heinrich, Malte Röntgen, Alexander Szameit, Tom A. W. Wolterink</i>	
Perfectly Vertical Coupling with High-Efficiency Bi-Layer Grating Coupler for Thin Film SiN Technology	796
<i>Anna Pennoni, Francesca Di Croce, Valerio Vitali, Thalia Dominguez Bucio, Hao Liu, Ilaria Cristiani, Frederic Gardes, Periklis Petropoulos, Cosimo Lacava</i>	
Low-Loss Strip-Loaded SiN Waveguides on Engineered AlN for Quantum Photonic Applications	797
<i>Francesco Conidi, Ajeethkuma Rengarajan, Francesco Mattioli, Enrico Verona, Francesco Martini, Alessandro Gaggero</i>	
Negative Kerr Contribution on Hybrid SiN-CNTs Waveguides.....	798
<i>Adrián Bartolo, Zijun Xiao, Mikhail Dyatlov, Elena Duran-Valdeiglesias, Justine Brundu, Samuel Serna, Alejandro Giacomotti, Arianna Filoramo, Laurent Vivien, Nicolas Dubreuil</i>	
Integrated Wavemeter with 8 Mach-Zehnder Interferometers for the Near-IR Range with Picometer Accuracy.....	799
<i>Tunahan Gök, Jashanpreet Kaur, Piotr Cegielski, Avinash Kumar, Stephan Suckow, Alexander Eras, Christian Nölleke, Max C. Lemme</i>	
Nanophotonic Fabrication for Coupling to Single Organic Molecules	800
<i>Michael J. Neville, Granthick Barua, Jieqing Mo, Rowan A. Hoggarth, Alex S. Clark</i>	

Polycrystalline Lithium Niobate Nonlinear Metasurfaces.....	801
<i>Ülle-Linda Talts, Helena Weigand, Irene Occhiodori, Eleni Prountzou, Virginia Falcone, Rachel Grange</i>	
Enabling Micro Transfer Printable SNSPDs for Fully Integrated Quantum Photonic Platforms	802
<i>Linus Krämer, R. Jaha, C. Graham-Scott, I. Luntadila Lufungula, L. Jin, S. Ferrari, W. Pernice</i>	
12-Gbps All-Optical Switching Via Nonlinear Kerr Effect in Silicon Carbide Micro-Ring Resonator	803
<i>Chih-Hsien Cheng, Atsushi Matsumoto, Naokatsu Yamamoto, Gong-Ru Lin, Kouichi Akahane</i>	
Free-Form Laser Nano-Patterning of Silicon with Subsurface-Seeding.....	804
<i>Mehmet Bütün, Rana Asgari Sabet, Onur Tokel</i>	
Fiber-Interfaced Nanoprinted Hollow-Core Waveguide: A Novel Platform for Nanoparticle Tracking.....	805
<i>Diana Pereira, Torsten Wieduwilt, Walter Hauswald, Matthias Zeisberger, Marta S. Ferreira, Markus A. Schmidt</i>	
Integration of Suspended, High Q-Factor Photonic Crystal Cavities onto Optical Fibre Tips by Transfer Printing.....	806
<i>Elise A. B. Burns, Sean P. Bommer, Jack A. Smith, Benoit Guilhabert, Christopher Panuski, Dirk Englund, Michael J. Strain</i>	
Etching-Free Rare-Earth-Doped Al ₂ O ₃ and Y ₂ O ₃ Micro-Devices Made by Pulsed Laser Deposition and Lift-Off.....	807
<i>Antoine Bernard, Antonio Pereira, Régis Orobtcouk, Hai-Son Nguyen, Damien Rinnert, Christian Seassal, Yannick Guyot, Alban Gassenq</i>	
3D Microprinting of Lanthanide-Based Polymers on Optical Fibers: A Platform for Multiplexed Sensing	808
<i>Shaghayegh Baghapour, Vales Aslani, Wenqi Zhang, Stephen Warren-Smith, Sally Plush, Alois Herkommer, Andrea Toulouse, Shahraam Afshar V</i>	
High-Power, Thermally-Accessible Dissipative Kerr Soliton Generation	809
<i>Yanjing Zhao, Andreas Jacobsen, Yang Liu, Chaochao Ye, Yi Zheng, Camiel Op De Beeck, José Carreira, Michael Geiselman, Minhao Pu</i>	
Coherent Dual Soliton Combs with Mechanically Actuated Kerr Microcombs.....	810
<i>Tatsuki Murakami, Koshiro Wada, Soma Kogure, Ryomei Takabayashi, Liu Yang, Riku Shibata, Hajime Kumazaki, Shinichi Watanabe, Atsushi Ishizawa, Takasumi Tanabe, Shun Fujii</i>	
Power Robustness of Soliton Crystal Microcombs Turnkey Generation.....	811
<i>Xinyu Yang, Xiaotian Zhu, Qihang Ai, Caitlin Murray, Chawaphon Prayoonyong, Xingyuan Xu, Mengxi Tan, Brent E. Little, Sai T. Chu, Bill Corcoran, Donglin Su</i>	
Ultrabroadband Integrated Electro-Optic Frequency Comb in Lithium Tantalate.....	812
<i>Junyin Zhang, Chengli Wang, Connor Denney, Johann Riemensberger, Grigory Lihachev, Jianqi Hu, Wil Kao, Terence Blésin, Nikolai Kuznetsov, Zihan Li, Mikhail Churaev, Xin Ou, Gabriel Santamaria-Botello, Tobias J. Kippenberg</i>	
Coupling Between Lossy Resonators: A New Approach Towards Large-Area Single-Mode Lasing	813
<i>Korneel Molkens, Wai Kit Ng, T. V. Raziman, Ivo Tanghe, Pieter Geiregat, Ricardo Sapienza, Dries Van Thourhout</i>	

All-Optical Generation of Quasi-Bound States in the Continuum Resonances in a Homogeneous Dielectric Thin Film	814
<i>Leonardo De S. Menezes, Rodrigo Berté, Thomas Possmayer, Andreas Tittl, Stefan A. Maier</i>	
Non-Euclidean Photonics: Pseudosphere and Black Hole Microlasers.....	815
<i>Hugo Girin, S. Bittner, C. Lafargue, X. Checoury, D. Decanini, B. Dietz, C. Xu, P. Sebbah, M. Lebental</i>	
Experimental Characterisation of Nanoscale Buried Heterostructure Quantum Wells.....	816
<i>Valdemar Bille-Lauridsen, Meng Xiong, Yi Yu, Pawel Holewa, Elizaveta Semenova, Kresten Yvind, Jesper Mørk</i>	
Water-Stable CsPbBr ₃ Quantum Dot Polariton Emitters	817
<i>Chiao-Chih Lin, Hsu-Cheng Hsu, Chung-Wei Kung, Yu-Hsun Chou</i>	
An Ultra-Broadband Gallium Phosphide Optical Parametric Amplifier	818
<i>Nikolai Kuznetsov, Alberto Nardi, Johann Riemensberger, Alisa Davydova, Mikhail Churaev, Paul Seidler, Tobias J. Kippenberg</i>	
Planar High-Q Evanescent Whispering Gallery Mode Perovskite Lasers.....	819
<i>Racha Akrouf, Hong Hai Nguyen, Karim Elkhoully, Iakov Goldberg, Paul Heremans, Robert Gehlhaar, Jan Genoe</i>	
Single and Multi-Mode Lasing Emission by Quasi-BIC TiO ₂ Metasurfaces.....	820
<i>Ayesheh Bashiri, Aleksandr Vaskin, Katsuya Tanaka, Marijn Rikers, Daniel Repp, Thomas Pertsch, Isabelle Staude</i>	
Whispering Gallery Mode Yellow Lasing from Dy ³⁺ -Doped Silica Glass Microspheres	821
<i>Abhishek Sureshkumar, Jonathan Demaimay, Georges Perin, Shahaz Hameed, Mohammed Guendouz, Hélène Ollivier, Yannick Dumeige, Pavel Loiko, Gurvan Brasse, Alain Braud, Patrice Camy, Stéphane Trebaol</i>	
CMOS-Compatible Er:Ta ₂ O ₅ Chip for Ultrashort Pulse Amplification	822
<i>Harsh Vaid, Sharashti Saxena, Rajveer Dhawan, Ganapathy Senthil Murugan, James S Wilkinson, Amol Choudhary</i>	
CW Amplified Upconverted Emission in Blended NaYF ₄ :Yb ³⁺ , Tm ³⁺ and NaYF ₄ :Yb ³⁺ , Er ³⁺ Supraparticles	823
<i>E. McCormick, C. J. Eling, P. Urbano Alves, N. Laurand</i>	
Raman Frequency Combs in Integrated Silicon Nitride Microresonators	824
<i>Alekha Ghosh, Arghadeep Pal, Shuangyou Zhang, Toby Bi, Masoud Kheyri, Haochen Yan, Yaojing Zhang, Pascal Del'Haye</i>	
One Million Q-Factor SiGe-On-Si Ring Resonator in the Mid-Infrared.....	825
<i>Rémi Armand, Marko Perestjuk, Miguel Gerardo Sandoval Campos, Ujjal Chettri, Lamine Ferhat, Jean-Michel Hartmann, Vincent Mathieu, Guanghui Ren, Andreas Boes, Arnan Mitchell, Nicolas Bresson, Vincent Reboud, Christelle Monat, Christian Grillet</i>	
One Octave Supercontinuum Generation in Silicon Germanium on Silicon-Nitride Platforms for Mid-Infrared Applications	826
<i>Lamine Ferhat, Marko Perestjuk, Adam Bieganski, Rémi Armand, Vincent Reboud, Nicolas Bresson, Jean-Michel Hartmann, Guanghui Ren, Arnan Mitchell, Christelle Monat, Christian Grillet</i>	
Near-Field Spatiotemporal Nanoscopy of Lead Telluride Meta-Atoms	827
<i>Sukanta Nandi, Tomer Lewi</i>	

Pioneering a New Generic Platform - Unlocking the Potential of Mid-IR Photonic Integrated Circuits	828
<i>Ryszard Piramidowicz, Stanislaw Stopinski, Krzysztof Anders, Anna Jusza, Marcin Lelit, Andrzej Polatynski, Piotr Wisniewski, Mateusz Slowikowski, Marcin Juchniewicz, Jacek Olszewski, Rafal Ciechanski, Krzysztof Machalowski, Jaroslaw Jurencyk, Kamil Pierscinski, Dorota Pierscinska</i>	
Strong Group Delay Dispersion in 3D Photonic Band Gap Crystals and Planar Microcavities.....	829
<i>L. Bert Mulder, Ad Lagendijk, Willem L. Vos</i>	
Observation of Cartesian Light Propagation Through a Three-Dimensional Cavity Superlattice in Silicon Photonic Band Gap Crystals	830
<i>Manashee Adhikary, Marek Kozon, Ravitej Uppu, Willem L. Vos</i>	
Carrier Transport in Electrically-Driven Photonic Crystal Membrane Lasers.....	831
<i>Mathias Marchal, Nikolaos Chatzaras, Evangelos Dimopoulos, Andrey Marchevsky, Aurimas Sakanas, Marco Saldutti, Kasper Spiegelhauer, Yi Yu, Kresten Yvind, Meng Xiong, Jesper Mørk</i>	
Wavelength Dependent Light Trapping in a Chirped 3D Photonic Crystal.....	832
<i>E. Otero, B. Soria, M. Malinauskas, D. Gailevicius, V. Mizeikis, K. Staliunas, J. Trull, C. Cojocar</i>	
Coupling Efficiency in Multimodal Photonic Crystal Cavities	833
<i>Loredana Maria Massaro, Fabrice Raineri</i>	
Enhanced Photon-Pair Generation from a Van Der Waals Metasurface	834
<i>Tongmiao Fan, Yilin Tang, Shaun Lung, Maximilian Weissflog, Jinyong Ma, Saniya Shinde, Sina Saravi, Mudassar Nauman, Wenkai Yang, Hao Qin, Shuyao Qiu, Andrey A. Sukhorukov, Yuerui Lu, Frank Setzpfandt</i>	
Nonlinearity Symmetry Breaking for Generating Tunable Quantum Entanglement in Semiconductor Metasurfaces.....	835
<i>Tongmiao Fan, Jinyong Ma, Tuomas Haggren, Laura Valencia Molina, Matthew Parry, Saniya Shinde, Jihua Zhang, Rocío Camacho Morales, Frank Setzpfandt, Hark Hoe Tan, Chennupati Jagadish, Dragomir N. Neshev, Andrey A. Sukhorukov</i>	
Reliable Fabrication of Electrically Tunable Quantum Dot Emitters on SiN Via Micro-Transfer Printing.....	836
<i>Jasper Dewitte, Atefeh Shadmani, Zhe Liu, Gunther Roelkens, Leonardo Midolo, Bart Kuyken, Dries Van Thourhout</i>	
Quantum Emitter Enhancement in Epsilon-Near-Zero Environment.....	837
<i>Sven Stengel, Abhishek Solanki, Hamza Ather, Pei-Gang Chen, Jae Ik Choi, Brandon M. Triplett, Mustafa Ozlu, Kyu Ri Choi, Alexander Senichev, Wallace Jaffray, Alexei S. Lagoutchev, Marcello Ferrera, Alexandra Boltasseva, Vladimir M. Shalaev</i>	
Efficient Integration of Quantum Emitters in Laser Written Optical Channel Waveguides in Silica	838
<i>Symeon I. Tsimtzos, Konstantinos Tsimvakidis, James C. Gates, Oleksandr Buchnev, Ali. W. Elshaari, Val Zwiller, Peter G. R. Smith, Christos Riziotis</i>	
Generation of Polarization-Hologram Entangled States Using Metasurfaces	839
<i>Jensen Li, Hong Liang, Wai Chun Wong, Tailin An</i>	
An Integrated Microscope for High Throughput Imaging of Circulating Tumour Cells on a Chip	840
<i>Andrea Ciceri, Giacomo Corrielli, Martina Russo, Francesca Bragheri, Roberto Osellame, Giulia Bertolini, Cinzia De Marco, Serena Di Cosimo, Nadia Brancati, Petra Paiè</i>	

Simultaneous Measurement of Enzyme Activity and Concentration Via a Multiplexed Photonic Sensor	841
<i>Jordan N. Butt, Daniel J. Steiner, Michael R. Bryan, Katie E. Mann, Benjamin L. Miller</i>	
A Sensor for Measuring Vital Parameters During Ex Situ Liver Perfusion.....	842
<i>Jonas Binz, Florian Huwlyer, Jasmina Saxer, Nika Petelinsek, Mark W. Tibbitt</i>	
Calcium Imaging Using a Miniature Structured Illumination Microscope	843
<i>Forest Speed, Sean R. Hansen, Omkar D. Supekar, Fabio Simoes De Souza, Victor M. Bright, Juliet T. Gopinath, Cristin G. Welle, Diego Restrepo, Emily A. Gibson</i>	
Refractive Index-Matching to Improve Polarization-Resolved Second Harmonic Imaging of the Human Cornea in Depth	844
<i>Poncia Nyembo Kasongo, Pierre Mahou, Jean-Marc Sintès, Gaël Latour, Marie-Claire Schanne-Klein</i>	
Event-Based Imaging Cytometry Combined with Recurrent/Feedforward Adaptive Spiking Neural Networks	845
<i>Georgios Moustakas, Ioannis Tsilikas, Adonis Bogris, Charis Mesaritakis</i>	
Polarization-Resolved Hyperspectral Imaging of Scarab Beetles	846
<i>P. Soltani, M. Hacken, A. Van Der Meijden, F. Snik, M. J. A. De Dood</i>	
Direct Print of Cyanobacteria Cells Colloidal Suspension by Optical Vortex Laser Induced Forward Transfer	847
<i>Srinivasa Rao Allam, Kaito Sato, Ken-Ichi Yuyama, Mitsumasa Hanaoka, Takashige Omatsu</i>	
Enhanced Vibrational Circular Dichorism of Plasmonic Nanostructures Embedding Chiral Drugs.....	848
<i>Raju Adhikary, Matteo Venturi, Ambaresh Sahoo, Carino Ferrante, Paola Benassi, Francesco Di Stasio, Andrea Toma, Hatice Altug, Massimiliano Aschi, Andrea Marini</i>	
Three-Photon Excited Autofluorescence Microscopy with a Gain-Managed Nonlinear Fiber Amplifier	849
<i>Jakub Boguslawski, Katarzyna Kunio, Maciej Barna, Grzegorz Sobon</i>	
Fiber-Optic Photothermal Ablation Catheter with Skin-Inspired Tactile Sensing for Minimally Invasive Therapy	850
<i>Xiaoyan Guo, Jialin Tuo, Zhuozhou Li, Lijun Xu, Jingjing Guo</i>	
Demonstration of Ex-Vivo Evaluation for Gastric Cancer Onset Using Laser-Induced Photoacoustic Vibration.....	851
<i>Katsuhiko Mikami, Tasuku Furube, Takuto Hatakeyama, Satoru Matsuda, Daisuke Nakashima</i>	
Laser-Two-Focus Measurement of Cerebrospinal Fluid Flow Rate in a Hydrocephalus Shunt Tube Using Indocyanine Green Fluorescence	852
<i>Yuto Shimizu, Keigo Kimura, Yasuo Aihara, Ichiro Shoji</i>	
Femtosecond Laser-Induced Self-Organized Microrod Arrays	853
<i>I. Gnilitzky, K. Diedkova, Milena Yalyzhko, M. Pogorelov, G. Tsibidis, A. V. Zayats</i>	
Accurate Identification of Bacteria Using a Spectral Transformer Machine Learning Model for Hyperspectral Raman Images.....	854
<i>Mikael Lassen, Yijian Meng, Jesper B. Christensen, Thomas Emil Andersen, Danylo Komisar, Andrii Kutsyk, Oleksii Ilchenko</i>	

In-Vivo Mapping of Nitrate Distribution in Wild-Type Arabidopsis Thaliana Roots with Spontaneous and Coherent Raman Microscopy	855
<i>Alma Fernández, Ze Tian Fang, Dipankar Sen, Brian Henrich, Yukihiro Nagashima, Alexei V. Sokolov, Sakiko Okumoto, Aart J. Verhoef</i>	
Polarization-Based Optical System for Myocardial Tissue Characterization	856
<i>Twinkle, Prasanna Simha Mohan Rao, Hardik J. Pandya</i>	
Integrated Optical Tweezers and Microfluidic System for Monitoring Cellular Response	857
<i>Le Roi Du Plessis, Gurthwin Bosman, Pieter Neethling</i>	
Field-Resolved Sample-Modulation Spectroscopy for Mid-Infrared Molecular Fingerprinting	858
<i>Wolfgang Schweinberger, Sebastian Gröbmeyer, Amaj Chamankar, Abhijit Maity, Csaba Liber, Eric Griebinger, Dennis Merrill, Ferenc Krausz, Alexander Weigel</i>	
Octave-Spanning Mid-Infrared Electric Field-Resolved Molecular Fingerprinting of Human Blood Plasma	859
<i>Abhijit Maity, Wolfgang Schweinberger, Sebastian Gröbmeyer, Sanchi Maithani, Csaba Liber, Amaj Chamankar, Michael Trubetskov, Behnam Abbasvand Jahedi, Aleksandar Sebesta, Zoltán Kovács, Mihaela Žigman, Ferenc Krausz, Alexander Weigel</i>	
Tunable W-Doped VO ₂ Nanolayer at Body Temperature for Ultrasensitive Near-Infrared Plasmonic Biosensor	860
<i>Nurzad Zakirov, Shaodi Zhu, Amine Zitouni, Etienne Charette, Wenqiang Xiang, Boris Le Drogoff, Mohamed Chaker, Shuwen Zeng</i>	
Spectroscopy with Undetected Photons for Biomedical Diagnostics in Mid-Infrared	861
<i>Mahya Mohammadi, Isa Ahmadalidokht, Mohammad Sadraeian, Lana McClements, Christopher G. Poulton, Irina Kabakova, Alexander S. Solntsev</i>	
Label-Free Plasmonic Biosensor for Cancer Marker Detection Based on Phase Singularity-Induced Lateral Position Shift.....	862
<i>Fusheng Du, Kevin Kim, Kathrine Nygaard Borg, Rodolphe Jaffiol, Aurélien Bruyant, Jeremy Mallet, Shuwen Zeng</i>	
Nanoscale Chemical Mapping of Bacterial Structures and Compositions with Table-Top EUV Ptychography.....	863
<i>Chang Liu, Leona Licht, Wilhelm Eschen, Soo Hoon Chew, Christina Wichmann, Felix Hildebrandt, Daniel S. Penagos Molina, Christian Eggeling, Jens Limpert, Jan Rothhardt</i>	
Advancing Histopathology with Multiplex Stimulated Raman Scattering.....	864
<i>Eric Michele Fantuzzi, Francesco Crisafi, Eleonora Erriquez, Andrea Ragni, Federico Monti, Gabriele Di Noia, Mujeeb Rahman, Tiago Azevedo, Moe Vali, Renzo Vanna, David Pertzborn, Daniela Pelzel, Ulrike Weyer, Anna Xylander, Anna Mühlig, Orlando Guntinas-Lichius, Pietro Liò, Giulio Cerullo, Matteo Negro</i>	
Clinical Use Cases for Fourier Ptychography Microscopy.....	865
<i>Mohiudeen Azhar, Mark Dethlefsen, Gaby Marquardt, Ishita Chakraborty, Kausik Das, Thomas Engel, Jeffrey Jasperse, Mohammed Arfan, Manohar Kollegal, Abhijeet Joshi</i>	
Optical Coherence Tomography and Raman Spectroscopy Can Predict Germination of Cotton Seeds.....	866
<i>Brian Henrich, Marshall Tolleson, David Torck, Alexei V. Sokolov, Alma Fernández, Aart J. Verhoef</i>	

Structural Biomedical Two-Photon Microscopy Using a Sub-35 Fs, High-Energy (>40 nJ), Pre-Chirp Managed Yb:Fiber Laser System	867
<i>Marvin Edelmann, Susanna Gevorgyan, Mikhail Pergament, Christian Betzel, Franz X. Kärtner</i>	
Photoacoustically Generated Ultrasound for Light Guiding Inside Transparent and Scattering Media.....	868
<i>Mateu Colom, Pietro Ricci, Blanca Mestre-Torà, Martí Duocastella</i>	
Investigation of Collagen Crosslinks Introduced by a Femtosecond Laser.....	869
<i>Daniel Fischer, Axel Stöcker, Astrid Tannert, Timea Koch, Ute Neugebauer, Roland Ackermann, Jeannine Missbach-Guentner, Stefan Nolte, Christoph Rufmann</i>	
Conical Refraction: Forgotten Phenomenon Or Novel Tool for Phase Preservation of Orbital Angular Momentum of Light Propagating Through Scattering Media	870
<i>Diana Galiakhmetova, Nawal Mohamed, Fatima Khanom, Anton Sdobnov, Ivan Lopushenko, Alexander Bykov, Igor Meglinski, Edik Rafailov</i>	
Coherent LIPSS Propagation in Transparent Conductive Oxides (TCOs)	871
<i>Gonzalo Gomez-Munoz, Rocío Ariza, Fernando Nuñez-Galvez, Juan F. Ramos-Justicia, Belen Sotillo, Paloma Fernandez, Christian A. Kaufmann, Carmen Lopez-Santos, Carlos Prieto, Jose Gonzalo, Javier Solis</i>	
Photo-Patterned Plasmonic Multilayers Exhibiting Different Vivid Colors in Specular and Diffuse Reflection	872
<i>Nicolas Jacquot, William Ravisy, Laurent Dubost, Christophe Hubert, Jialin Hu, Kevin Vynck, Nathalie Destouches</i>	
Tailoring the Properties of the Electromagnetic Modes Excited by Mid-IR Fs Pulses at the Interface Between Si and SiO ₂ Coatings by Adjusting the Thickness of the Dielectric Material	873
<i>G. D. Tsibidis, E. Stratakis</i>	
Ultrafast Laser Surface Nanostructuring with Programmable Temporal Polarization Shaping.....	874
<i>Thirunaukkarasu Kuppan, Anthony Nakhoul, Huu Dat Nguyen, Rajeev Dviwedi, Ciro D'Amico, Razvan Stoian</i>	
Fabrication of a Metasurface “Mirror” Using Multiphoton Lithography for THz Applications	875
<i>Savvas Papamakarios, Jiaruo Yan, Ioannis Katsantonis, Panagiotis Konstantakis, Michalis Loulakis, Thomas Koschny, Maria Farsari, Stelios Tzortzakis, Maria Kafesaki</i>	
Miniaturized Two-Photon Lithography Platform Via Metasurface	876
<i>Xinger Wang, Xuhao Fan, Yuncheng Liu, Yining Zhou, Zexu Zhang, Hui Gao, Wei Xiong</i>	
3D Laser Printing Based Soft Lattice Mechanical Metamaterial Microrobots.....	877
<i>Mingduo Zhang, Yuncheng Liu, Hui Gao, Wei Xiong</i>	
Sub-Diffractive Optical Lithography Beyond Acrylates	878
<i>Georgii Gvindzhiliia, Sourav Islam, Thomas A. Klar</i>	
Laser Printing of Luminescent YAG:Ce 3D Microstructures	879
<i>A. Harnik, R. Virketis, D. Dapšys, D. Ladika, G. Merkininkaitė, S. Šakirzanovas, M. Malinauskas</i>	
Comparison of Laser-Induced Bulk Modifications in Glass by Femtosecond Pulses Using Single Pulses, MHz- And GHz-Bursts.....	880
<i>Manon Lafargue, Théo Guilberteau, Pierre Balage, Bastien Gavory, John Lopez, Inka Manek-Höninger</i>	

Segmented Waveguides Realized by Single-Shot Femtosecond Modifications in Glass	881
<i>Namig Alasgarzade, Alessandro Alberucci, Chandroth P. Jisha, Stefan Nolte</i>	
Space Debris Removal Via Laser Ablation: Experimental Progress	882
<i>Takayo Ogawa, Hiroshi Kasuga, Hideaki Yamane, Tomohiro Tsukihana, Yutaka Nagata, Katsuhiko Tsuno, Takuya Shinozaki, Noriko Kurose, Norihito Saito, Satoshi Wada</i>	
Investigation of High Bragg Orders in Ultrashort Pulse Written VBGs for Applications in the Blue Spectral Region	883
<i>Malte Siems, Daniel Richter, Ria Krämer, Georg Schwartz, Stefan Nolte</i>	
Influence of Inscription Strategies on Group Delay Ripples in Fs-Written Chirped Fiber Bragg Gratings	884
<i>Georg R. Schwartz, Malte P. Siems, Ria G. Krämer, Daniel Richter, Stefan Nolte</i>	
Influence of the Polarization State on Femtosecond Laser-Written Longitudinal Waveguides in Silicon.....	885
<i>Namig Alasgarzade, Markus Blothe, Maxime Chambonneau, Chandroth P. Jisha, Alessandro Alberucci, Stefan Nolte</i>	
Phase Mask Integrated Aperture Shaping for Efficient Writing of Multiple Notch Filters in the Form of Fiber Bragg Gratings	886
<i>Ria G. Krämer, Samuel L. Döpfner, Malte P. Siems, Georg R. Schwartz, Daniel Richter, Stefan Nolte</i>	
High-Power Laser-Induced Synthesis of Ni-Based Metal-Organic Framework for Electrocatalytic, and Glucose-Sensing Applications	887
<i>Saliha Muthu, Büleend Ortaç, Ali Karatutlu, Taylan Gorkan, Engin Durgun, Dilek Söyler, Saniye Söylemez, Sevil Savaskan Yilmaz, Nergis Arsu</i>	
Comparison of Broadband Loss in Fiber Bragg Gratings Manufactured with UV Phase Mask and Direct Writing Techniques.....	888
<i>Alexander Roehrl, Silas Heissel, Fabian Buchfellner, Johannes Roths</i>	
Laser-Induced Sintering of Titanium Niobates (TNOs) from TiO ₂ -Nb ₂ O ₅ Powders.....	889
<i>Gonzalo Gomez-Munoz, Paloma Fernandez, Javier Solis, Belen Sotillo</i>	
Fast Laser Drilling on SiC-CMC Using Hybrid ArF Excimer Laser.....	890
<i>Takashi Onose, Hironori Igarashi, Hiroaki Motosugi, Atsushi Fuchimukai, Taisuke Miura</i>	
Integrated Femtosecond Laser System for Precision Surface Patterning and High-Speed Cutting of Intraocular Lenses	891
<i>Gizem Alpakut, Burak Karat, Sungur Ozkan, Ibrahim Atespare, Elif Yaroglu, Orhun Uysal, Mehmet Burcin Unlu, Bora Akgun, Onur Ferhanoglu, Seydi Yavas</i>	
Ablation of Transparent Materials with Sub-100 Fs Pulses.....	892
<i>Gregor Hehl, Mario Ochoa, Rashad Esloughi, Cheriyan Varghese, Moinuddin Kadiwala, Oleg Pronin</i>	
Through-Hole Drilling of Polyimide Films Using a Short-Pulse CO ₂ Laser and Vapor-Absorption-Based Water Assistance	893
<i>Kazuyuki Uno</i>	
Ultrafast Filamentary Excitation Process in Glass During Bessel Beam Irradiation.....	894
<i>Ryota Hasegawa, Guoqi Ren, Sota Kiriake, Yanming Zhang, Naohiko Sugita, Yusuke Ito</i>	

Water Repellency of Laser-Textured Aluminum Surfaces Compared to Its Polymer Imprints	895
<i>Oleksiy Myronyuk, Aleksej M. Rodin, Auguste Cerneckyte</i>	
Unlocking Extreme Parallelization: 1 kW Ultrafast Laser Processing with Compensation of Spatio-Temporal Effects for Large Angle Beam Splitting	896
<i>Dario Mekle, Daniel Grossmann, Benjamin Dannecker, Helge Höck, Dominik Bauer, Daniel Flamm, Stefan Nolte</i>	
Time-Resolved Complex Optical Field Imaging of Deep-UV Nanosecond Pulsed Laser Processing of BK7 Glass Using Linear Absorption Process.....	897
<i>Shotaro Kawano, Keiichiro Toda, Haruyuki Sakurai, Kuniaki Konishi, Takuro Ideguchi</i>	
Precise Ablation in Bulk Dielectrics Through Synergistic Femtosecond Laser Irradiation and Ion Implantation.....	898
<i>Irene Solana, Yoann Levy, Nadezhda M. Bulgakova, María Dolores Ynsa, Fátima Cabello, Fernando Chacón-Sánchez, Jan Siegel, Mario Garcia-Lechuga</i>	
Semiclassical Simulation of Laser-Electron Coupled Dynamics in Metals Under Ultrashort Pulse Laser Irradiation	899
<i>Mizuki Tani, Tomohito Otobe, Yasushi Shinohara, Kenichi L. Ishikawa</i>	
Enhanced Conditions Inside Silicon by Interactions with Tightly Focused Counterpropagating Ultrafast Laser Pulses.....	900
<i>Niladri Ganguly, Pol Sopeña, David Grojo</i>	
Ultrafast Laser-Induced Silicon Surface Modification: From Linear to Highly Nonlinear Excitation Regimes.....	901
<i>Mario Garcia-Lechuga, Pol Sopeña, Noemi Casquero, Javier Solis, Olivier Utéza, David Grojo, Jan Siegel</i>	
Ultrafast Laser Filamentation in Semiconductors	902
<i>Maxime Chambonneau, Markus Blothe, Vladimir Yu. Fedorov, Stelios Tzortzakis, Stefan Nolte</i>	
Double-Pulse Ultrafast Laser Bulk Modification of Silicon.....	903
<i>Markus Blothe, Jesvin Joseph, Maxime Chambonneau, Stefan Nolte</i>	
Nanosecond IR Laser-Assisted Selective 3D Etching of Silicon for Photovoltaics	904
<i>Darya Akhtaryarazar, Viktor Kadan, Khalil Dadashi, Kardelen Demirbas, Alpan Bek, Mona Zolfaghari Borra, Bülent Arikan, Arian Goodarzi, Rasit Turan, Ihor Pavlov</i>	
Femtosecond Laser Processing of Materials at Tens-Of-NM.....	905
<i>Saulius Juodkazis</i>	
Crystalline High Aspect Ratio Nano-Pillars Generated by Ultrafast Bessel Beam from Sapphire	906
<i>Valeria V. Belloni, Anne-Magali Seydoux-Guillaume, Sergio Sao-Joao, Mostafa Hassan, Luca Furfaro, Remo Giust, Francois Courvoisier</i>	
Circularly Polarized Ultrafast Laser-Fluid-Matter Interaction Induced Chiral Nanostructures Self-Assembly.....	907
<i>Yi Wang, Zhen-Ze Li, Hong-Bo Sun</i>	
Cooling Mechanisms in MHz Femtosecond Laser Processing of Polymers	908
<i>Andrés P. Bernabeu, Daniel Puerto, José Reyna, Sergi Gallego, Andrés Márquez, Inmaculada Pascual, Augusto Beléndez</i>	
Ultrafast Ablation of Transparent Materials by Heating Excited Electrons.....	909
<i>Yusuke Ito, Guoqi Ren, Naohiko Sugita</i>	

Ultrashort Pulse Laser Welding of Fused Silica and Polymethyl Methacrylate: Experimental and Theoretical Insights	910
<i>Felice Alberto Sfregola, Raffaele De Palo, Caterina Gaudiuso, Stefania Caragnano, Francesco Paolo Mezzapesa, Pietro Patimisco, Antonio Ancona, Annalisa Volpe</i>	
Efficient Nanostructuring in Silica Glass with Ultrashort Laser Pulses Down to 10 Fs.....	911
<i>Sergei Shevtsov, Huijun Wang, Oleg Pronin, Yuri Svirko, Peter G. Kazansky</i>	
Towards Ultra-Fast Femtosecond-Laser-Assisted Chemical Etching of Mid-IR Transmitting Barium Germano-Gallate (BGG) Glass	912
<i>Yann Serre, Théo Guérineau, Fouad Alassani, Jérôme Lapointe, Réal Vallée, Lionel Canioni</i>	
All-In-One Femtosecond Laser Fabrication and Welding of Multilayer Glass Microfluidic Devices.....	913
<i>Gizem Alpakut, Mehmet Burcin Unlu, Bora Akgun, Seydi Yavas</i>	
Self-Organised UV Femtosecond Laser Induced Modifications in the Bulk of Fused Silica.....	914
<i>Ernesto Gribaudo, Yves Bellouard</i>	
Sapphire Integrated Photonics Written by Femtosecond Laser	915
<i>Mohan Wang, Patrick S. Salter, Frank P. Payne, Tongyu Liu, Martin J. Booth, Julian A. J. Fells</i>	
Elasto-Optic Phase Modulators in a Femtosecond-Laser Written Waveguide Platform.....	916
<i>Roberto Memeo, Abhiram Rajan, Francesco Ceccarelli, Andrea Crespi, Roberto Osellame</i>	
Mitigation Strategies for Depolarisation Effects of Ultrashort Pulse Written Fused Silica VBGs	917
<i>Daniel Richter, Malte P. Siems, Ria G. Krämer, Georg R. Schwartz, Stefan Nolte</i>	
On the Use of UV Femtosecond Pulses to Write Waveguides in Fused Silica	918
<i>Lisa Ackermann, Yves Bellouard</i>	
Laser-Inscribed Flexible Bragg Gratings Containing Silicon Oxynitride Doped Silicon Thin Film for Authentication Applications and Their Electronic and Structural Properties from X-Ray Absorption Spectroscopy and Ab Initio Calculations.....	919
<i>Ali Karatutlu, Timuçin Emre Tabaru, Umut Taylan, Zehra Gizem Mutlay, Dogukan Hazar Özbey, Hamid-Reza Bahari, Esra Kendir Tekgül, Andriy Budnyk, Mustafa Fatih Genisel, Zeynep Reyhan Öztürk, Engin Durgun, Bülend Ortaç</i>	
Spectral Monitoring During Laser Processing for Activation of Single Group-IV Colour Centres in Diamond	920
<i>Patrick S. Salter, Xingrui Cheng, Andreas Thurn, Guangzhao Chen, Gareth Jones, Maddison Coke, Mason Adshead, Cathryn P. Michaels, Osman Balci, Andrea C. Ferrari, Mete Atature, Richard Curry, Jason M. Smith, Dorian A. Gangloff</i>	
Femtosecond Laser Micromachined Glass Microfluidic Platform with Nanoporous Membranes for Advanced Blood-Brain Barrier Modeling	921
<i>Alessandra Nardini, Leonardo Cherubin, Claudio Conci, Chiara Boncristiani, Manuela Teresa Raimondi, Roberto Osellame, Viviana Vergaro, Rebeca Martínez Vázquez</i>	
Laser-Induced Breakdown Spectroscopy by nJ Pulses at GHz Repetition Rate.....	922
<i>Ayesha Noor, Emre Hasar, Parviz Elahi</i>	
Models for the Temperature-Dependent Absorptivity of Copper Surfaces During High-Power Laser Processing.....	923
<i>Christoph Sauer, Stefan Reich, Marcel Goesmann, Sebastian Schäffer, Martin Lueck</i>	

Quartz Wafer Processing with Femtosecond Lasers for Eco-Friendly Micro-Resonator Fabrication	924
<i>Annalisa Volpe, Raffaele De Palo, Jaka Mur, Felice Alberto Sfregola, Matevž Marš, Pietro Patimisco, Vincenzo Spagnolo, Antonio Ancona, Rok Petkovšek</i>	
Ultrafast Dynamics of Individual Quantum States in Condensed Matter	925
<i>Alexander Neef, Tommaso Pincelli, Lawson Lloyd, Shuo Dong, Samuel Beaulieu, Sebastian Hammer, Malte Selig, Dominik Christiansen, Andreas Knorr, Martin Wolf, Jens Pflaum, Laurenz Rettig, Ralph Ernstorfer</i>	
Two-Electron Quantum Walks Probe Entanglement and Decoherence in an Ultrafast Electron Microscope	926
<i>Offek Tziperman, David Nabben, Ron Ruimy, Yiqi Fang, Ethan Nussinson, Jacob Holder, Alexey Gorlach, Daniel Kazenwadel, Aviv Karnieli, Ido Kaminer, Peter Baum</i>	
Base-Independent Photon Entanglement in Superradiance of Multilevel Atoms	927
<i>Amir Sivan, Meir Orenstein</i>	
Imaging Single Quantum Excitations by Light-Enhanced Electron Microscopy	928
<i>Rotem Elimelech, Tomer Bucher, Michael Yannai, Ward Yahya, Ofer Neufeld, Ido Kaminer</i>	
Photon Number Resolution Via Multi-Photon Subtraction in a Waveguide-QED Setting	929
<i>Abdolreza Pasharavesh, Sai Sreesh Venuturumilli, Michal Bajcsy</i>	
Reference-Free Scattering Compensation for Entangled Photons Via Schmidt Number Manipulation	930
<i>Shaurya Aarav, Hugo Defienne</i>	
Mode-Selective Photon Subtraction Via Time-To-Frequency Mapping for Multimode Entangled States	931
<i>Bastien Oriot, Peter Namdar, David Fainsin, Leonardo Rincón Celis, Nicolas Treps, Valentina Parigi</i>	
Fourier State Tomography of Quantum Light	932
<i>Pierre Brosseau, Mohammed Alqedra, Anton Vetlugin, Val Zwiller, Cesare Soci</i>	
Die-Level Balanced Homodyne Receiver for Squeezed Light Detection in the GHz Regime	933
<i>Emmily Zaiser, Alessandro Trenti, Dinka Milovancev, Christoph Gasser, Horst Zimmermann, Hannes Hübel</i>	
Photonic Quantum-To-Quantum Bernoulli Factory	934
<i>Francesco Hoch, Giovanni Rodari, Taira Giordani, Alessia Suprano, Luca Castello, Elena Negro, Gonzalo Carvacho, Nicolò Spagnolo, Francesco Ceccarelli, Ciro Pentangelo, Simone Piacentini, Andrea Crespi, Roberto Osellame, Ernesto F. Galvão, Fabio Sciarrino</i>	
Characterization of Local and Nonlocal Quantum Correlations	935
<i>Francesco Atzori, Salvatore Virzi, Enrico Rebufello, Alessio Avella, Fabrizio Piacentini, Iris Cusini, Henri Haka, Federica Villa, Marco Gramagna, Eliahu Cohen, Ivo Pietro Degiovanni, Marco Genovese</i>	
Restoring Information from Sparse Single Photon Detection Events for Experiments in Quantum Optics	936
<i>Laura Orphal-Kobin, Gregor Pieplow, Alok Gokhale, Kilian Unterguggenberger, Tim Schröder</i>	
Conservation of Orbital Angular Momentum on a Single-Photon Level	937
<i>Lea Kopf, Rafael Barros, Shashi Prabhakar, Enno Giese, Robert Fickler</i>	

Impeded Bloch Oscillation and Nonlinear Landau-Zener Tunneling of Bose-Einstein Liquid Droplets in Optical Lattices.....	938
<i>Yu-Wen Wang, Szu-Cheng Cheng, Wen-Hsuan Kuan</i>	
Towards Spectral Matching of Photons from Dissimilar Sources for Quantum Interference.....	939
<i>Luis Matheis, Jan Krzyzanowski, Gregor Weihs, Michal Karpinski, Robert Keil</i>	
Towards the Observation of Collective Radiance Phenomena in a One-Dimensional Array of Waveguide-Coupled Atoms with Sub- $\lambda/2$ Spacing.....	940
<i>Lucas Pache, Hector Letellier, Martin Cordier, Max Schemmer, Philipp Schneeweiss, Jürgen Volz, Arno Rauschenbeutel</i>	
Two-Photon Interference Under Modified Phonon-Induced Dephasing Isolated from Effects of Temporal Correlation.....	941
<i>Jaewon Lee, Charlie Stalker, Loris Cholicchio, Fernando Redivo Cardoso, Jan Lukas Seelbinder, Sven Höfling, Christian Schneider, Celso J. Villas-Boas, Ana Predojevic</i>	
Indistinguishable Heralded Photon Pairs from a Whispering Gallery Resonator.....	942
<i>Sheng-Hsuan Huang, Thomas Dirmeier, Golnoush Shafiee, Kaisa Laiho, Dmitry V. Strekalov, Andrea Aiello, Gerd Leuchs, Christoph Marquardt</i>	
Quantum Noise Locking of Squeezed Light Generated in Periodically Poled LiNbO ₃ Waveguides	943
<i>Erik A. T. Svanberg, Hilma Karlsson, Katia Gallo, Vaishali Adya</i>	
Characterization of a Monolithic Cavity for High-Purity Single-Photon Generation Via Pulsed SPDC.....	944
<i>Xavier Barcons Planas, Helen M. Chrzanowski, Janik Wolters</i>	
Potentialities of SiPMs in Quantum Optics: Is it Possible to Use a Single Detector for Coincidence Measurements?.....	945
<i>Giuseppe Di Blasio, Iaria Bargigia, Antonio Pifferi, Giulio Cerullo, Alberto Dalla Mora</i>	
Experimental Generation and Characterization of Multimode Squeezed Light in a Synchronously Pumped Optical Parametric Oscillator	946
<i>Edoardo Suerra, Francesco Canella, Dario Giannotti, Samuele Altilia, Gianluca Galzerano, Simone Cialdi</i>	
Single-Beam Bose-Einstein Condensate Source: A Demonstration of Optical-Grating and Magnetic Chip Hybridization for Onboard Quantum Sensors	947
<i>Romain Calviac, Antoine Rouxel, Antoine Monmayrant, Olivier Gauthier-Lafaye, Alexandre Gauguier, Baptiste Allard</i>	
Restoring Two-Photon Quantum Correlations Using Even-Parity Optimization	948
<i>Kiran Bajar, Rounak Chatterjee, Vikas Bhat, Sushil Mujumdar</i>	
Spin-Orbit Coupling in Optical Microcavities.....	949
<i>Johan Post, Martin Van Exter</i>	
Pulse Compression to Enhance Photon-Pairs Brightness in Hollow-Core Photonic Crystal Fiber Based Source	950
<i>Y. Asselah, A. Pochet, F. Amrani, F. Delahaye, B. Debord, F. Jérôme, F. Benabid</i>	
Ultra-Fast Continuous-Wave Homodyne Measurement of Schrödinger Cat States with 40-Ps Wavepackets.....	951
<i>Katsuki Nakashima, Tatsuki Sonoyama, Akito Kawasaki, Takumi Suzuki, Takahiro Kashiwazaki, Taichi Yamashima, Asuka Inoue, Takeshi Umeki, Masahiro Yabuno, Shigehito Miki, Hirotaka Terai, Kan Takase, Warit Asavanant, Mamoru Endo, Akira Furusawa</i>	

On Demand Single Photon Generation and Coherent Control of Excitons from Resonantly Driven Nanowire Quantum Dots	952
<i>Govind Krishna, Jun Gao, Edith Yeung, Lingxi Yu, Sayan Gangopadhyay, Kai-Sum Chan, Chiao-Tzu Huang, Thomas Descamps, Michael E. Reimer, Philip J. Poole, Dan Dalacu, Val Zwiller, Ali W. Elshaari</i>	
Deterministic Quantum Emitters Generation in Hexagonal Boron Nitride	953
<i>Sofiya Karankova, Yeunjeong Lee, Chaun Jang, Yong-Won Song, Hyowon Moon</i>	
Highly Efficient Organic Single-Photon Source Operating at Cryogenic Temperatures	954
<i>Siwei Luo, Tim Hebenstreit, Alexey Shkarin, Tobias Utikal, Jan Renger, Vahid Sandoghdar, Stephan Götzinger</i>	
From Dark-State Polaritons to Many-Body Spin Physics with Rydberg Atoms	955
<i>Michael Fleischhauer</i>	
Local Manipulation and Quantum Non-Demolition Measurement of Circular Rydberg Atoms	956
<i>Yohann Machu, Andrés Durán Hernández, Gautier Creutzer, Aurore Young, Jean-Michel Raimond, Clément Sayrin, Michel Brune</i>	
Development of a Photonic Interface for Neutral-Atom Based Quantum Processors Using a Nanofiber Cavity	957
<i>Kenichi N. Komagata, Shanjou Yang, Gento Aman, Remi Oddon, Kai Mukaihara, Seitaro Horikawa, Shinya Kato, Ratnesh K. Gupta, Takao Aoki, Hideki Konishi, Akihisa Goban</i>	
Generation of Atom-Photon Entanglement with an Optically Trapped Single Atom	958
<i>Zifang Xu, Chang Hoong Chow, Boon Long Ng, Vindhiya Prakash, Christian Kurtsiefer</i>	
A Cavity-Integrated High-Speed Low-Loss Optical Switch in Rubidium Vapour	959
<i>Georgia Booton, Cameron McGarry, Tabijah Wasawo, Alex Davis, Kristina Rusimova, Josh Nunn, Peter Mosley</i>	
Photon Pair Survival Rates Through Non-Hermitian SSH Lattices	960
<i>Friederike Klauck, Joshua Feis, Matthias Heinrich, Tom A. W. Wolterink, Alexander Szameit</i>	
Quantum Memory in Brillouin-Active Waveguides	961
<i>Changlong Zhu, Birgit Stiller</i>	
Deterministic Generation of Light-Matter Entangled States for Realization of Quantum Repeaters	962
<i>Priyanshu Tiwari, Aleksa Krstic, Frank Setzpfandt, Robert Löw, Sina Saravi</i>	
Overcoming Angular Dispersion in Optical Microcavities and Filters by Ultra-Strong Light Matter Coupling	963
<i>A. Mischok, B. Siegmund, F. Le Roux, S. Hillebrandt, K. Vandewal, M. C. Gather</i>	
Upper Bound for the Quantum Coupling Between Free Electrons and Photons	964
<i>Zhexin Zhao</i>	
Metasurface System for Quantum Phase Imaging	965
<i>Jinliang Ren, Jinyong Ma, Katsuya Tanaka, Lukas Wesemann, Ann Roberts, Frank Setzpfandt, Andrey A. Sukhorukov</i>	
Programmable Lithium Niobate-On-Insulator Bell State Generator	966
<i>Andreas Maeder, Giovanni Finco, Alessandra Sabatti, Robert J. Chapman, Rachel Grange</i>	
Enhancing Bandwidth Compression Using an Aberration-Corrected Sinusoidal Time Lens	967
<i>Sanjay Kapoor, Filip Sosnicki, Michal Karpinski</i>	

Photon Entanglement in Synthetic Dimensions of a Single Waveguide.....	968
<i>Amir Sivan, Stav Lotan, Amit Kam, Lior Gal, Guy Bartal, Meir Orenstein</i>	
AlGaAs Bragg Reflection Waveguides as Single and Entangled Photon Pair Source.....	969
<i>Akriti Raj, Tobias Bauer, David Lindler, Quankui Yang, Thorsten Passow, Christoph Becher</i>	
Narrowband Correlated Photon Quadruplets from a Cold Atomic Ensemble	970
<i>Yifan Li, Boon Long Ng, Chang Hoong Chow, Vindhya Prakash, Christian Kurtsiefer</i>	
A Stable Source of Polarization-Entangled Photon-Pairs in a Folded Mach-Zehnder Interferometer.....	971
<i>Sarah McCarthy, Ali Anwar, Ruaridh Smith, Imogen Morland, Gerald Bonner, Daniel Oi, Loyd McKnight</i>	
Generation of Polarization Entangled Photon Pairs in the Mid-Infrared and Visible Regions	972
<i>Haruya Hirota, Koichiro Tanaka</i>	
Quantum Ghost Imaging of Remote Targets with Novel SPAD Technology	973
<i>Alessia Suprano, Massimiliano Proietti, Francesco Poggiali, Ugo Zanforlin, Chiara Michelinì, Massimiliano Dispenza, Carsten Pitsch, Dominik Walter, Benjamin Guery, Henri Haka, Alberto Tosi, Federica Villa</i>	
Off-Axis Holographic Imaging with Undetected Light.....	974
<i>Josué R. León-Torres, Filip Krajinic, Mohit Kumar, Marta Gilaberte Basset, Frank Setzpfandt, Valerio Flavio Gili, Branislav Jelenkovic, Markus Gräfe</i>	
Applied Hyperspectral Mid-IR Quantum Imaging.....	975
<i>Marlon Placke, Chiara Lindner, Felix Mann, Inna Kviatkovsky, Helen M. Chrzanowski, Frank Kühnemann, Sven Ramelow</i>	
Precision Enhancement with Bright Kerr Amplitude-Squeezed Light for Static-Loss Microscopy.....	976
<i>Cyril Torre, Rachel N. Clark, Oliver Green, George S. Atkinson, Alex McMillan, John Rarity, Giacomo Ferranti, Jonathan C. F. Matthews</i>	
Non-Local Wavefront Shaping Using Entangled Photons.....	977
<i>Yanis Trouybet, Patrick Cameron, Pedro Ornelas, Isaac Nape, Andrew Forbes, Hugo Defienne</i>	
Deterministic Grover's Algorithm: Finding the Needle in the Haystack Every Time ... Well Most Times	978
<i>F. Mohit, Markus Rambach, T. J. Weinhold, M. P. Almeida, J. Guanzon, A. G. White</i>	
Parameter Shift Rule for Variational Photonic Quantum Circuit.....	979
<i>Francesco Hoch, Giovanni Rodari, Taira Giordani, Paul Perret, Nicolò Spagnolo, Gonzalo Carvacho, Ciro Pentangelo, Simone Piacentini, Andrea Crespi, Francesco Ceccarelli, Roberto Osellame, Fabio Sciarrino</i>	
Full-Stack Optical Quantum Computer with 101 Qumode Inputs	980
<i>Atsushi Sakaguchi, Shota Yokoyama, Warit Asavanant, Kan Takase, Yi-Ru Chen, Hironari Nagayoshi, Jun-Ichi Yoshikawa, Takahiro Kashiwazaki, Asuka Inoue, Takeshi Umeki, Toshikazu Hashimoto, Takuji Hiraoka, Akira Furusawa, Hidehiro Yonezawa</i>	
Enabling Hybrid Two-Photon Interference with a Time Lens	981
<i>Jan Krzyzanowski, Jerzy Szuniewicz, Sanjay Kapoor, Filip Sosnicki, Michal Karpinski</i>	
Cavity Cooling Using Electron Pulses	982
<i>Daniel E. Maison, Liron Stettiner, Shiran Even-Haim, Alexey Gorlach, Ron Ruimy, Ido Kaminer</i>	

Exploring Entangled Photonic State Properties for Polarization-Based Characterization of Light Scattering in a Turbid Medium.....	983
<i>Vira R. Besaga, Ivan V. Lopushenko, Oleksii Sieryi, Alexander Bykov, Frank Setzpfandt, Igor Meglinski</i>	
Hong-Ou-Mandel Interference of Two Photons of Vastly Different Color.....	984
<i>Felix Mann, Helen M. Chrzanowski, Felipe Gewers, Marlon Placke, Sven Ramelow</i>	
Quantum Teleportation of Genuine Single-Rail Vacuum-One-Photon Qubits	985
<i>Beatrice Polacchi, Francesco Hoch, Giovanni Rodari, Stefano Savo, Gonzalo Carvacho, Nicolò Spagnolo, Taira Giordani, Fabio Sciarrino</i>	
Optically Stable NV Centers Integrated into Highly Tunable Diamond Photonic Crystal Cavities	986
<i>Alok Gokhale, Julian M. Bopp, Laura Orphal-Kobin, Kilian Unterguggenberger, Marco E. Stucki, Tommaso Pregnolato, Tim Schröder</i>	
A Novel Approach for Scalable Production of Low Noise Two-Stage Frequency Converters for NV Center Qubits in Telecom-Based Quantum Networks	987
<i>Ludwig Hollstein, Hans Huber, Bernd Jungbluth, Florian Elsen, Constantin Häfner</i>	
Portable Quantum Sensor for Simultaneous Temperature and Magnetic Field Measurement Using Nitrogen-Vacancy Ensembles in Diamond.....	988
<i>Marta Arceiz, Julio Posada, José Carlos Guerra, Alfonso Fernández-García, Fernando Hidalgo, Erik Torrontegui, Pablo Acedo, Cristina De Dios</i>	
Path-Transverse Electric Mode Hyperentanglement on an Integrated Photonic Chip.....	989
<i>Imogen Forbes, Patrick Yard, Martin Bielak, Matthew Jones, Molly Thomas, Stefano Paesani, Massimo Borghi, Anthony Laing</i>	
Time-Resolved Measurement of Hong-Ou-Mandel Interference from Integrated SPDC Sources.....	990
<i>Karen Lozano-Mendez, Meritxell Cabrejo-Ponce, Baghdasar Baghdasaryan, Fabian Steinlechner</i>	
Harnessing Photon Indistinguishability in Quantum Extreme Learning Machines.....	991
<i>Malo Joly, Adrian Makowski, Lukas Porstendorfer, Steffen Wilksen, Edoardo Charbon, Christopher Gies, Hugo Defienne, Sylvain Gigan</i>	
Stabilization of Phase and Polarization in Multiplexed Entangled States Through Multi-Channel Optical Fibre Arrays	992
<i>Adrián S. Blanca, Giacomo Paganini, Evelyn A. Ortega, Robin Camphausen, Álvaro Cuevas, Valerio Pruneri</i>	
Self-Guided Quantum Tomography in High-Dimensional Systems.....	993
<i>L. Serino, Markus Rambach, B. Brecht, J. Romero, A. G. White, C. Silberhorn</i>	
Ultrafast Post-Selection Free Time-Bin Entanglement on a Thin Film Lithium Niobate Photonic Chip	994
<i>M. Bacchi, A. Bernardi, M. Clementi, S. Congia, F. Garrisi, A. Martellosio, M. Passoni, A. Wrobel, F. A. Sabattoli, M. Galli, D. Bajoni</i>	
Quantum-Enhanced Time-Domain Sampling of THz Fields.....	995
<i>Dionysis Adamou, Lennart Hirsch, Taylor Shields, Seungjin Yoon, Adetunmise C. Dada, Jonathan M. R. Weaver, Daniele Faccio, Marco Peccianti, Lucia Caspani, Matteo Clerici</i>	

An Integrated Photonic Circuit on Thin-Film Lithium Niobate for Time-Bin Quantum Information Processing.....	996
<i>Giovanni Finco, Giovanni Vio, Filippo Miserocchi, Andreas Maeder, Jost Kellner, Alessandra Sabatti, Robert J. Chapman, Rachel Grange</i>	
Adaptive Frequency-Bin Encoding for Scalable Entanglement-Based Quantum Key Distribution.....	997
<i>Anahita Khodadad Kashi, Michael Kues</i>	
Entanglement Distribution and Quantum Teleportation of Time-Bin Entangled Qubits Towards a Quantum Internet.....	998
<i>Jinwoo Kim, Jiho Park, Hong-Seok Kim, Tetiana Slusar, Guhwan Kim, Jaegyu Park, Jin Tae Kim, Kiwon Moon, Min-Su Kim, Jung Jin Ju</i>	
Quantum Rotation Sensing with 512-Fold Improvement in Resolution Using Spatially Structured 4-Photon N00N States	999
<i>Ofir Yesharim, Guy Tshuva, Ady Arie</i>	
High-Quality Fluorescent Nanodiamonds for Bio-Quantum Sensing	1000
<i>Masazumi Fujiwara, Keisuke Oshimi</i>	
Rydberg Atoms as Tunable All-Optical and Phase-Sensitive Sensors of Microwave Fields.....	1001
<i>Sebastian Borówka, Bartosz Kasza, Mateusz Mazelanik, Wojciech Wasilewski, Michal Parniak</i>	
QuaNtum-Enhanced Second Harmonic Generation Beyond the Photon Pairs Regime	1002
<i>T. Dickinson, I. Afxenti, G. Astrauskaite, L. Hirsch, S. Nerenberg, O. Jedrkiewicz, D. Faccio, C. Müllenbroich, A. Gatti, M. Clerici, L. Caspani</i>	
Towards Quantum-Enhanced Fiber-Optic Inertial Sensing.....	1003
<i>Marialuisa Capezzuto, Davide D'Ambrosio, Saverio Avino, Hugo Degert, Romain Dalidet, Laurent Labonte, Gianluca Gagliardi</i>	
Universal Encoder for Phase-, Time-Bin- And Polarization-Based QKD Schemes	1004
<i>Silas Eul, Thomas Hiemstra, Joost Vermeer, Julian Struck, Christoph Marquardt</i>	
Probing Graph Similarity Through Multiple Photons in Frequency-Time Bin Modes Generated by a Silicon Nitride Microresonator.....	1005
<i>Massimo Borghi, Emanuele Brusaschi, Marco Liscidini, Matteo Galli, Daniele Bajoni</i>	
Direct Intensity and Phase Modulation for QKD Transmitter Via Optical Injection Locking.....	1006
<i>Hui Liu, Gleb Nazarikov, Idelfonso Tafur Monroy</i>	
Miniaturized Optical Frequency Reference and Crossed Beam Optical Dipole Trap Systems for Compact Atom-Based Quantum Sensors.....	1007
<i>Marc Christ, Conrad Zimmermann, Sascha Neinert, Oliver Anton, Elisa Da Ros, Klaus Döringshoff, Markus Krutzik</i>	
Going to 2.1 μm for Space Quantum Key Distribution.....	1008
<i>Antoine Groulard, Selim Chaabani, Marina Zajnulina, Jean-Bernard Lecourt, Yves Hernandez, Serge Habraken</i>	
Implementation of Quantum Token Protocol with Trapped Ions.....	1009
<i>Manika Bhardwaj, Jan Thieme, Bernd Bauerhenne, Moritz Göb, Bo Den, Kilian Singer</i>	

Full-Stack Entanglement-Based Quantum Oblivious Transfer for Secure Multi Party Computation Applications.....	1010
<i>Alessandro Trenti, Mariana F. Ramos, Michael Hentschel, Federico Valbusa, Costin Luchian, Martin Achleitner, Marie-Christine Slater, Mariano Lemus, Thomas Lorünser, Hannes Hübel</i>	
Highspeed Polarization Preparation Scheme for Quantum Key Distribution for Visible Light	1011
<i>Mostafa Abasifard, Tobias Vogl</i>	
Experimental Deployment of a 4-State Continuous-Variable QKD System with Rate-Adaptive Error Correction in an Urban Environment.....	1012
<i>Stefan Richter, Lukas Eisemann, Hüseyin Vural, Ömer Bayraktar, Kevin Jaksch, Imran Khan, Emanuel Eichhammer, Emmeran Sollner, Christoph Marquardt</i>	
PIC Transmitter for QKD in the C-Band Integrated on a Commercially Available InP Platform	1013
<i>B. Hinkov, D. Fugger-Schafhauser, F. Dubois, F. Prawits, M. Achleitner, J. Spettel, T. Cassese, A. Schönau, M. Kleinert, H. Hübel, A. Poppe</i>	
Analysis and Comparison of Interleaved SNSPDs Photon Number Resolving Modalities.....	1014
<i>Marco Caputo, Federica Facchin, Antonio Guardiani, Niels Noordzij, Mario Usuga Castaneda</i>	
Superresolved Localisation of Blinking Sources of Light and Convexity of Fisher Information Matrix	1015
<i>Dmitri B. Horoshko, Alexander B. Mikhalychev, Fedor Jelezko, Polina P. Kuzhir</i>	
Polarization-Encoded BB84 Quantum Key Distribution for the Nano-Satellite Mission QUBE-II.....	1016
<i>Michael Steinberger, Michael Auer, Adomas Baliuka, Moritz Birkhold, Harald Weinfurter, Lukas Knips</i>	
Characterization and Validation of CV-QKD Systems Traceable to the SI Units.....	1017
<i>Luiz C. Correa Pinto Filho, Jesper B. Christensen, Mikael Lassen</i>	
Anomaly Detection Based on Quantum Autoencoder	1018
<i>Siqi Li, Zikun Zhang, Xun Zhu, Yanni Ou, Kun Xu</i>	
An 8-Channel Time-Tagger for Coincidence Measurement in Quantum Photonics Applications	1019
<i>Mehmet Ali Uluisik, Mehmet Caglar Koca, Francesco Malanga, Piergiorgo Daniele, Ivan Rech, Giulia Acconcia</i>	
State Transfer in Latent-Symmetric Quantum Networks.....	1020
<i>Jonas Himmel, Max Ehrhardt, Matthias Heinrich, Sebastian Weidemann, Tom A. W. Wolterink, Malte Röntgen, Peter Schmelcher, Alexander Szameit</i>	
A Municipal Quantum Network Link with Entangled Infrared-Photons Emitted from Strontium Ions	1021
<i>Norbert M. Linke</i>	
Experimental Quantum Triangle Network Nonlocality with an AlGaAs Multiplexed Entangled Photon Source.....	1022
<i>O. Meskine, I. Supic, D. Markham, F. Appas, F. Boëtier, M. Morassi, A. Lemaitre, M. I. Amanti, F. Baboux, E. Diamanti, S. Ducci</i>	
CLEO®/Europe-EQEC 2025 Non-Degenerate Photonic Sources for Entanglement-Based Quantum Networks	1023
<i>Ioanna Katsavou, Huazhuo Dong, Priyanka Giri, Lucas Aoyagi, Eleni Diamanti, Alban Urvoy, Julien Laurat</i>	

Tunable Generation of Spatial Entanglement in Nonlinear Waveguide Arrays.....	1024
<i>Arnault Raymond, Alessandro Zecchetto, José Palomo, Martina Morassi, Aristide Lemaître, Fabrice Raineri, Maria I. Amanti, Sara Ducci, Florent Baboux</i>	
Generation of Hyperentangled Photon Pairs in the Frequency-Bin and Time-Bin Domains with a Silicon Photonic Chip.....	1025
<i>Sara Congia, Massimo Borghi, Federico Andrea Sabbatoli, Houssein El Dirani, Laurene Youssef, Camille Petit-Etienne, Erwine Pargon, Marco Liscidini, Corrado Sciancalepore, Johan Rothman, Ségolène Olivier, Matteo Galli, Daniele Bajoni</i>	
Edge-Coupling Arrays of Site-Controlled Quantum Dots to Arrays of Integrated Silicon Nitride Waveguides and Devices at Cryogenic Temperatures	1026
<i>John O'Hara, Nicola Maraviglia, Mack Johnson, Jesper Håkansson, Salvador Medina, Gediminas Juska, Luca Colavecchi, Frank H. Peters, Brian Corbett, Emanuele Pelucchi</i>	
Compact Chirped Fiber Bragg Gratings for Single-Photon Generation from Quantum Dots	1027
<i>Vikas Remesh, Ria G. Krämer, René Schwarz, Florian Kappe, Yusuf Karli, Malte P. Siems, Thomas Bracht, Saimon Covre Da Silva, Armando Rastelli, Doris E. Reiter, Daniel Richter, Stefan Nolte, Gregor Weihs</i>	
Squeezed States Continuous-Variable Quantum Key Distribution Over 40 Km Fibre with “Local” Local Oscillator	1028
<i>Huy Q. Nguyen, Ivan Derkach, Hou-Man Chin, Adnan A. E. Hajomer, Nitin Jain, Ulrik L. Andersen, Vladyslav C. Usenko, Tobias Gehrina</i>	
Photonic Integrated Circuit for Compact Quantum Key Distribution	1029
<i>Martin Achleitner, Aaron Stadler, Marie-Christine Slater, Mariana F. Ramos, Julian König, Ozan Çirkinoglu, Xaveer Leijtens, Hannes Hübel</i>	
Photonic Integrated Phase Encoding Transmitter for Satellite QKD.....	1030
<i>Joost Vermeer, Jonas Pudelko, Ömer Bayraktar, Kevin Günthner, Christoph Marquardt</i>	
All-Fibre Frequency Reference for Twin-Field Quantum Key Distribution.....	1031
<i>Hilma Karlsson, Erik A. T. Svanberg, Giulio Foletto, Vaishali Adya, Katia Gallo</i>	
Demonstration of Programmable Temporal-Waveform Shaping for Optical Non-Gaussian Quantum States	1032
<i>Yu Nishizawa, Hiroko Tomoda, Akihiro Machinaga, Takahiro Kashiwazaki, Takeshi Umeki, Shigehito Miki, Masahiro Yabuno, Hirotaka Terai, Shuntaro Takeda</i>	
Certifying High Dimensional Quantum Entanglement with a Time-Stamping Camera.....	1033
<i>Raphaël Guitter, Baptiste Courme, Chloé Vernière, Peter Svihra, Andrei Nomerotski, Hugo Defienne</i>	
Experimental Noiseless Quantum Amplification of Coherent States of Light by Two-Photon Addition and Subtraction.....	1034
<i>Michal Neset, Jirí Fadrný, Martin Bielač, Jaromír Fiurášek, Miroslav Ježek, Jan Bílek</i>	
CLEO®/Europe-EQEC 2025 Experimentally Verifiable Criteria for Non-Gaussian Coherence in Bosonic Quantum Systems.....	1035
<i>Priyanka Giri, Beate E. Asenbeck, Lukáš Lachman, Ambroise Boyer, Albane Lapras, Alban Urvoy, Radim Filip, Julien Laurat</i>	
More than One-Bit Quantum Randomness Certification and Expansion	1036
<i>A. Piveteau, A. Seguinard, M. Grünfeld, H. Arwer, N. Mahammedi, P. Mironowicz, M. Bourennane</i>	

Generation of Attosecond Vortex Pulse Trains	1037
<i>Alba De Las Heras, David Schmidt, Julio San Román, Javier Serrano, Jonathan Barolak, Bojana Ivanic, Cameron Clarke, Nathaniel Westlake, Daniel E. Adams, Luis Plaja, Charles G. Durfee, Carlos Hernández-García</i>	
Quantized Hall Drift in a Frequency-Encoded Photonic Chern Insulator	1038
<i>Alexandre Chénier, Bosco D'Aligny, Félix Pellerin, Paul-édouard Blanchard, Tomoki Ozawa, Iacopo Carusotto, Philippe St-Jean</i>	
Strain-Induced Curvature in a Photonic Chern Insulator.....	1039
<i>J. Beck, A. Fritzsche, T. A. W. Wolterink, L. Upreti, A. Stegmaier, M. Heinrich, R. Thomale, A. Szameit</i>	
Broadband Localization of Light at the Termination of a Topological Photonic Waveguide	1040
<i>Daniel Muis, Yandong Li, René Barczyk, Sonakshi Arora, L. Kuipers, Gennady Shvets, Ewold Verhagen</i>	
Spatiotemporal Non-Hermitian Skin-Effect in a Fast-Gain Laser	1041
<i>Alexander Dikopoltsev, Barbara Schneider, Markus Bestler, Philipp Täschler, Mathieu Bertrand, Mattias Beck, David Burghoff, Oded Zilberberg, Jérôme Faist</i>	
Klein Tunneling and Enhanced Phase Synchronization in Laser Arrays with Linear Gapless Dispersion.....	1042
<i>Konstantin Manannikov, Sagie Gadasi, Nir Davidson, Alexander N. Poddubny</i>	
Complex Momentum Bands Feature Non-Hermitian Time Topology	1043
<i>Andrea Steinfurth, Joshua Feis, Julia Görsch, Tom Sheppard, Hannah M. Price, Alexander Szameit, Sebastian Weidemann</i>	
Exponentially Sensitive Lattices: Scaling and Pseudospectra	1044
<i>Ioannis Kiorpelidis, Konstantinos G. Makris</i>	
Focusing Based on Singular Eigenstates in Non-Hermitian Systems.....	1045
<i>Konstantinos G. Makris, Demetri Psaltis</i>	
Generation of Higher-Order Optical Angular Momentum Beams Using In-Fibre Mode Converter and Spiral Phase Plate	1046
<i>Natasha Vukovic, Konstantin Bobkov, Peter Shardlow, Christophe A. Codemard, Michalis N. Zervas</i>	
Photonic Spin-Hall Effect in Bulk Twisted Anisotropic Media.....	1047
<i>Chandroth P. Jisha, Lorenzo Marrucci, Stefan Nolte, Alessandro Alberucci</i>	
Fabrication of Pancharatnam-Berry Waveguides Using Nanogratings.....	1048
<i>Stree Vithya Arumugam, Chandroth P. Jisha, Alessandro Alberucci, Stefan Nolte</i>	
Topological Extended Doublons Formed by Drive-Induced Non-Local Interactions	1049
<i>J. Beck, H. Driëke, M. J. Meschede, M. Heinrich, F. S. Piccioli, S. Weidemann, J. Feis, D. Bauer, A. Szameit</i>	
Comb-Based Spectroscopic Gas Temperature Measurement in the Mid-Infrared Range	1050
<i>Yu-Rong Xu, Akiko Nishiyama, Grzegorz Kowzan, Szymon Wójtewicz, Katarzyna Bielska, Shui-Ming Hu, Piotr Maslowski, Daniel Lisak</i>	

Cavity-Enhanced Comb-Based Double-Resonance Spectroscopy of High Rotational Energy Levels in the 9070–9370 Cm^{-1} Range of Methane.....	1051
<i>Adrian Hjältén, Vinicius Silva De Oliveira, Isak Silander, Andrea Rosina, Michael Rey, Lucile Rutkowski, Grzegorz Sobon, Kevin K. Lehmann, Aleksandra Foltynowicz</i>	
Ultrastable Laser Based on a Room Temperature ULE Cavity with Crystalline AlGaAs Coatings.....	1052
<i>C Y Ma, J Yu, T Legero, S Herbers, D Nicolodi, M Kempkes, F Riehle, J Ye, U Sterr</i>	
Ultra-Low Noise Transfer of Spectral Purity Between Two Lasers of Different Wavelength Using a Heterodyne Fiber Interferometer.....	1053
<i>Debanjan Show, Stéphanie Grabielle, Jean-Pierre Coulon, Fabien Kéfélian</i>	
Frequency Stability Transfer Over a Wide Spectral Band Using Fibered Bragg Grating Cavities.....	1054
<i>Yacine Chelouah, Mamadou Faye, Ronan Le-Masson, Laurent Lablonde, Frédéric Du-Burck, Vincent Roncin</i>	
Agile Hz-Level Precision Spectroscopy Using a Dual-Modulated Tunable Diode Laser.....	1055
<i>Toby Bi, Shuangyou Zhang, Pascal Del'Haye</i>	
Complete Optical Field Reconstruction of Optical Frequency Combs Generated by Gain-Switching Using the Gerchberg-Saxton Algorithm.....	1056
<i>Alejandro Rosado, Ignacio Esquivias, Minghao Wei, Aleksandra Kaszubowska-Anandarajah, Prince M. Anandarajah</i>	
Dual Comb Shape Sensing Spectroscopy.....	1057
<i>Hani J. Khashi, Alberto R. Cuevas, Sergey Sergeyev</i>	
An RIZ-Band Astrocomb with Versatile Offset Control.....	1058
<i>Kamalesh Dadi, Yuk Shan Cheng, William Newman, Jake M. Charsley, Richard A. McCracken, Derryck T. Reid</i>	
Laser Frequency Comb for the NIRPS Spectrograph.....	1059
<i>Christopher Bonzon, Ewelina Obrzud, Lionel Bischof, Séverine Denis, Lina Beltrán, Nicolas Torcheboeuf, Christoph Hofer, Jean Berney, Gaspare Lo Curto, Francesco Pepe, Tobias Schmidt, François Bouchy, Steve Lecomte</i>	
Dual-Comb Functional Near-Infrared Spectroscopy for Perturbation Localization in Dispersive Media.....	1060
<i>Roberto Barreiro, Frank Sanabria, Julio Posada, Pedro Martín-Mateos, J. L. González-Mora, Cristina De Dios</i>	
Development of Highly Sensitive Spectroscopy Approach Using a Free-Running Dual-Comb Fiber Laser.....	1061
<i>Yoshiaki Nakajima, Ryusei Uchiyama, Takehiko Mizuno, Naoki Takeshi, Takumi Takahoshi</i>	
Absolutely Stabilized, Sub-KHz Linewidth Comb with Automated Locking and Unified User Interface.....	1062
<i>Jae-Ihn Kim, Florian Figge, Maria Romodina, Daniel Heinrich, Michael Schmidt, Thomas Puppe, Christoph Stihler, Matthias Scholz, Sebastian Müller, Ali Seer</i>	
Simultaneous Measurement of Absolute Distance and Velocity Using a Single Electro-Optic Frequency Comb Based LiDAR.....	1063
<i>Runmin Li, Haochen Tian, Yang Liu, Dengfeng Dong, Lukasz A. Sterczewski, WeiHu Zhou</i>	
Spaceborn Precision Photonic Microwave Generator for Japanese Global Navigation Satellite System.....	1064
<i>Yuichi Takeuchi, Nozomu Takagi, Sou Aiba, Yushi Tanaka, Yusei Fujita, Mitsuru Musha</i>	

Phase Noise Characterization of an Ultra-Stable Industrial Clock Laser System Via Cross-Correlation Analysis	1065
<i>Dewni Pathegama, Florian Schäfer, Filippo Bregolin</i>	
Dark-Fringe Interferometry for Infrared Sensing	1066
<i>Malo Briend, Lucile Rutkowski</i>	
Frequency Comb-Based Spectroscopy of O ₂ for Primary Thermometry.....	1067
<i>Touko Uotila, Mikhail Roiz, Juho Karhu, Santeri Larnimaa, Markku Vainio</i>	
Octave-Spanning Kerr Frequency Comb in a Si ₃ N ₄ Microresonator at Electronically Detectable Repetition Rate	1068
<i>Alisa Davydova, Miles H. Anderson, Zheru Qiu, Tobias J. Kippenberg</i>	
Sub-Hz Intrinsic Linewidth Power Efficient Microcombs	1069
<i>Krishna Twayana, Fuchuan Lei, Victor Torres-Company</i>	
Ultrastable Synchronization of Mode-Locked Laser and Microcomb.....	1070
<i>Changmin Ahn, Daewon Suk, Hansuek Lee, Jungwon Kim</i>	
Locking of the Cavity-Soliton Repetition Rate Via a Piezo-Stretched Amplifier.....	1071
<i>F. Getman, A. Cutrona, N. Paul, A. Suresh, D. Das, Sai T. Chu, Brent E. Little, Roberto Morandotti, David J. Moss, Marco Peccianti, Alessia Pasquazi</i>	
Dual-Optical Frequency Comb Generation for Gas Spectroscopy Using a Single Gain-Switched Externally-Injected Semiconductor Laser	1072
<i>Laura Monroy, Alejandro Rosado, Clara Quevedo-Galán, Pablo López-Querol, Antonio Pérez-Serrano, José Manuel G. Tijero, Ignacio Esquivias</i>	
Real-Time Squeezed Dual-Comb Spectroscopy.....	1073
<i>Mathieu Walsh, Molly Kate Kreider, Daniel I. Herman, Matthew Heyrich, Scott A. Diddams, Jérôme Genest</i>	
THz Spectroscopy Using a Free-Running Dual-Comb Fiber Laser	1074
<i>Yoshiaki Nakajima, Takumi Takahoshi, Ryusei Uchiyama, Naoki Takeshi, Toshiyuki Miyazaki, Kousuke Kubota, Takeshi Yasui</i>	
Polarization-Multiplexed Erbium Single-Cavity Dual Comb and Detection of Carbon Monoxide	1075
<i>P. E. Collin Aldia, Jiayang Chen, Jonas K. C. Ballentin, Lukas W. Perner, O. H. Heckl</i>	
Watt-Class Sub-100-fs Kerr-Lens Mode-Locked Dual-Comb Laser at 2.13 μm	1076
<i>Mykyta Redkin, Yicheng Wang, Sergei Tomilov, Clara J. Saraceno</i>	
Broadband Astrocomb with Feed-Forward Integration of a Cw Laser Frequency Marker	1077
<i>Yuk Shan Cheng, Kamallesh Dadi, William Newman, Jake M. Charsley, Richard A. McCracken, Derryck T. Reid</i>	
How to Generate XUV Frequency Combs Without Enhancement Resonators?	1078
<i>Muhammad Thariq, Johannes Weitenberg, Francesco Canella, Gianluca Galzerano, Theodor W. Hänsch, Thomas Udem, Akira Ozawa</i>	
High Stability Harmonically Modelocked GHz Er Fiber Frequency Comb.....	1079
<i>Kevin F. Lee, Jacob Lampen, Jie Jiang, Martin E. Fermann</i>	
Noise Performance of the Carrier-Envelope Offset in Passively Stabilized Frequency Combs.....	1080
<i>Haochen Tian, Yu Cai, Tao Yang, Qiang Wang, Xinqi Wang, Baike Lin, Fei Meng, Ye Li, Zhanjun Fang, Günter Steinmeyer, Yige Lin</i>	

Cavity-Enhanced Optical-Optical Double-Resonance Polarization Spectroscopy Using a Frequency Comb Probe	1081
<i>Andrea Rosina, Isak Silander, Vinicius Silva De Oliveira, Adrian Hjältén, Kevin K. Lehmann, Aleksandra Foltynowicz</i>	
Spectral Shaping of an Astrocomb with Single-Comb-Mode Specificity	1082
<i>William Newman, Jake M. Charsley, Yuk Shan Cheng, Richard A. McCracken, Derryck T. Reid</i>	
Swept Heterodyne Correlation for Long-Baseline Stellar Interferometry	1083
<i>Félix Gudin, Nicolas Forget</i>	
Optical Microwaves Based on a Difference Frequency Comb	1084
<i>Sebastian Mueller, Thomas Puppe</i>	
Rotational-Doppler Fourier-Transform Absorption Spectroscopy	1085
<i>Santeri Larnimaa, Markku Vainio</i>	
Femtosecond Fieldoscopy	1086
<i>Hanieh Fattahi</i>	
All Optical Sampling of Near-Infrared Waveforms at 505 kHz	1087
<i>Francesco Tani, Martin Butryn, Anton Husakou, Dmitry A. Zimin</i>	
Electron Transport Under Atomic-Scale Spatio-Temporal Confinement	1088
<i>Sebastian Grossenbach, Marwin Gedamke, Matthias Falk, Ron Tenne, Alfred Leitenstorfer</i>	
Ultrafast Dissociation Dynamics of Iodomethane Induced by Few-Fs UV Pulses.....	1089
<i>Sergey Ryabchuk, Lorenzo Colaizzi, Erik P. Månsson, Krishna Saraswathula, Vincent Wanie, Andrea Trabattoni, Jesús González-Vázquez, Fernando Martín, Francesca Calegari</i>	
Ultrafast Excited-State Dynamics in Halogen Terminated Polyynes: Influence of the Halogen Group.....	1090
<i>Edoardo Carraro, Simone Melesi, Andrea Iudica, Giulio Cerullo, Carlo S. Casari, Daniele Fazzi, Margherita Zavelani-Rossi</i>	
Order from Chaos: Probing Supramolecular Self-Assembly with 2D Spectroscopy	1091
<i>Sundar Raj Krishnaswamy, Maxim S. Pshenichnikov</i>	
Strain-Controlled Growth of Transition Metal Dichalcogenides and Its Influence on Ultrafast Exciton Dynamics	1092
<i>Eon-Taek Oh, Seongdae Kwon, Kibum Kang, Fabian Rotermund</i>	
Spatio-Temporal Visualization of Individual Phonon and Magnon Propagation in a Magnetic Thin Film	1093
<i>S. Watanabe, D. Nishikawa, K. Maezawa, R. Shibata, S. Fujii</i>	
Ultrafast Time-Resolved Demagnetization Imaging in a Ferromagnet	1094
<i>Alessandro Baserga, Federico Visentin, Davide Benettin, Giovanni Gandini, Christian Rinaldi, Ettore Carpena, Giulio Cerullo, Stefano Dal Conte, Franco V. A. Camargo</i>	
Widefield Femtosecond Spin Polarization Imaging Via Multiplexed Off-Axis Holography	1095
<i>Federico Visentin, Martin Hörmann, Julia A. Gessner, Felix Deschler, Giulio Cerullo, Franco V. A. Camargo</i>	
Real-Time Measurements of Beam Self-Cleaning Dynamics	1096
<i>Jiaqi Li, Joshua Ruelle, Piotr Ryczkowski, John M. Dudley, Goëry Genty</i>	

Leveraging Machine Learning and a Photonic Integrated Chip for the Spectro-Temporal Tailoring of Supercontinuum Generation.....	1097
<i>Bruno P. Chaves, Jérémy Saucourt, Van Thuy Hoang, Alexis Bougaud, Brent E. Little, Sai T. Chu, David J. Moss, Roberto Morandotti, Vincent Couderc, Benjamin Wetzel</i>	
Optimization of Geometric Parametric Instability Using Beam Shaping.....	1098
<i>Ekaterina Krutova, Joshua Ruelle, Goëry Genty</i>	
Characterization of a High-Repetition-Rate Laser Filament-Induced Plasma in Air Using Optical Emission Spectroscopy.....	1099
<i>Malte C. Schroeder, Robin Löscher, Nikita Bibinov, Ihor Korolov, Peter Awakowicz, Thomas Mussenbrock, Clara Saraceno</i>	
Steering Laser-Produced THz Radiation in Air with Flying Focus.....	1100
<i>Silin Fu, Baptiste Groussin, Yi Liu, André Mysyrowicz, Vladimir Tikhonchuk, Aurélien Houard</i>	
Dynamics of Supercontinuum Generation from Light Filaments in Ceramic Nd:YAG Polycrystals.....	1101
<i>N. Bagley, S. Wehbi, T. Mansuryan, R. Boulesteix, A. Maître, Y. Arosa, M. Ferraro, F. Mangini, Y. Sun, K. Krupa, B. Wetzel, S. Wabnitz, A. Aceves, A. Tonello, V. Couderc</i>	
Unusual Features of Time-Cavities.....	1102
<i>Ihar Babushkin, Oliver Melchert, Uwe Morgner, Ayhan Demircan</i>	
Generation of Tunable Broadband OAM Beams in Large Ring Core Multimode Fibers.....	1103
<i>Jiaqi Li, Samuli Ranto, John M. Dudley, Goëry Genty</i>	
Composition-Dependent Charge Carrier Dynamics in Bulk Mo1-XWxSe2 Alloys.....	1104
<i>Junho Park, Seonggeon Gim, Yeongkwan Kim, Fabian Rotermund</i>	
Plasma-Driven Secondary Radiations for Nonharmonic Two-Color Mixing.....	1105
<i>L. Bergé, V. Tamuliene, V. Vaicaitis, M Rebarz, S. J. Espinoza, P. David Peregrina, F. Catoire</i>	
Optimum Pulse Duration for THz Yield from the Air-Based Plasma.....	1106
<i>Olga Kosareva, Irina Nikolaeva, Jiayi Xie, Daniil Shipilo, Nikolay Panov, Andrey Savel'Ev, Haizhu Zhao, Weiwei Liu</i>	
Temporal Reflections Via Intermodal Interactions in Multimode Fibers.....	1107
<i>A. C. Sparapani, Y. Sun, F. Mangini, M. Ferraro, G. P. Agrawal, S. Wabnitz</i>	
Coherent Pulse Interactions in Mode-Locked Semiconductor Lasers.....	1108
<i>T. Seidel, A. Bartelo, A. Garnache, M. Giudici, M. Marconi, S. V. Gurevich, J. Javaloyes</i>	
New Route to Chaos in Mode-Locked Laser: The Modulated Subharmonic Scenario.....	1109
<i>H. Kang, A. Zhou, Y. Zhan, X. Wu, B. Yuan, J. Peng, C. Finot, S. Boscolo, H. Zeng</i>	
The Q-Switching Instability of Passively Modelocked Solid-State Lasers.....	1110
<i>Franco Prati, Auro M. Perego, Javier Redondo, Germán J. De Valcárcel</i>	
Temporal Solitons in Active Cavities Under Extreme Power Extraction.....	1111
<i>Haftamu Gebreslassie Berhe, Nicolas Englebert, François Leo, Simon-Pierre Gorza</i>	
Dynamics of Harmonic Mode-Locking Via Delayed Optical Feedback.....	1112
<i>Qi Yan, Fanchao Meng, Changjian Lv, Zhixu Jia, Weiping Qin, Guanshi Qin, John M. Dudley</i>	
Frequency-Tunable DUV Bi-Chromatic Pulse Pairs Directly Generated from NIR Ultrashort Pulses.....	1113
<i>Hamid Rashtabadi, Marek Wieland, Mark J. Prandolini, Silva Mezinska, Markus Drescher</i>	

Hysteresis in Laser Cavity-Solitons	1114
<i>Aadithya Suresh, Antonio Cutrona, Debayan Das, Sai T. Chu, Brent E. Little, Roberto Morandotti, David J. Moss, Juan Sebastian Totero Gongora, Marco Peccianti, Alessia Pasquazi</i>	
Energy-Velocity Scaling of Wavelet-Like Optical Solitons.....	1115
<i>O. Melchert, I. Babushkin, U. Morgner, A. Demircan</i>	
Localized Patterns and Solitons in Cylindrical Microresonators with Anomalous GVD	1116
<i>Carlos Mas Arabí, Pedro Fernández De Córdoba, José Alberto Conejero, Yaroslav Kartashov, Carles Milián</i>	
Quasiperiodic Non-Hermitian Lattices: Nonlinearity and Anderson Jumps.....	1117
<i>Dimitrios H. Kaltsas, Ananya Ghatak, Manas Kulkarni, Konstantinos Makris</i>	
Diverse Dynamics of Polarization Domain Walls in Passive Kerr Resonators	1118
<i>Pengxiang Wang, Changqing Li, Ziang Xiao, Carlos Mas-Arabí, Gang Xu</i>	
Oscillating Turing Rolls as Periodic Orbits of the Lugiato-Lefever Equation.....	1119
<i>Andrey Gelash, Savyaraj Deshmukh, Andrey Shusharin, Tobias Schneider, Tobias J. Kippenberg</i>	
Spontaneous Pattern Formation in a Noise-Initiated Laser System Mediated by the Dissipative Faraday Instability	1120
<i>Changqing Li, Ran Xia, Pengxiang Wang, Ziang Xiao, Gang Xu</i>	
Characterization of Temporal Optical Parametric Oscillation in Silicon Nitride Microresonator Driven by Modulated Pumping	1121
<i>Menglong He, Mohd Saif Shaikh, Abdou Shetewy, Kambiz Jamshidi</i>	
Probing Nonlinear Turbulent Dynamics with a Fully-Controllable Platform for Paraxial Fluids of Light	1122
<i>Nuno A. Silva, Tiago D. Ferreira</i>	
Observation of Bound States of Parametrically-Driven Kerr Cavity Solitons	1123
<i>C. Dupont, N. Englebert, S. P. Gorza, S. Massar, F. Leo</i>	
Application of the Nonlinear Fourier Transform for Analysis of the Coherent Structures Generation	1124
<i>I. S. Chekhovskoy, O. V. Shtyrina, M. P. Fedoruk, E. V. Sedov, S. K. Turitsyn</i>	
Impact of Waveguide Radius on the Spectral Bandwidth of Frequency-Tunable Ultrashort Ultraviolet Pulses	1125
<i>Hamid Rashtabadi, Mark J. Prandolini, Marek Wieland, Silva Mezinska, Markus Drescher</i>	
Modal Analysis of Supercontinuum Generation Within Multi-Mode Ta ₂ O ₅ Nonlinear Waveguides.....	1126
<i>Guan-Hong Li, Shao-Rong Gan, Yuan-Yao Lin, Min-Hsiung Shih, Yi-Jen Chiu, Chao-Kuei Lee</i>	
Automating Physical Intuition in Nonlinear Fibre Optics Using Dominant Balance Search	1127
<i>A. V. Ermolaev, C. Finot, G. Genty, J. M. Dudley</i>	
Experimental Observation of Thermalisation in a Nonlinear Non-Hermitian Optical Lattice	1128
<i>Julia Görsch, Joshua Feis, Andrea Steinfurth, Sebastian Weidemann, Georgios G. Pyrialakos, Matthias Heinrich, Mercedeh Khajavikhan, Alexander Szameit, Demetrios N. Christodoulides</i>	
Machine Learning Control of Modulation Instability in Optical Fiber	1129
<i>Y. Boussafa, L. Sader, V. T. Hoang, B. P. Chaves, A. Bougaud, R. Haldar, M. Fabert, A. Tonello, J. M. Dudley, M. Kues, B. Wetzel</i>	

Observation of Optical Solitons Governed by Fractional Dispersion.....	1130
<i>V. T. Hoang, J. Widjaja, Y. L. Qiang, M. Liu, T. J. Alexander, A. F. J. Runge, C. M. De Sterke</i>	
Möbius Laser Cavity Soliton Microcomb	1131
<i>D. Das, A. Cutrona, G-L Oppo, A. Cooper, L. Olivieri, A. G. Balanov, S. T. Chu, B. E. Little, R. Morandotti, D. J. Moss, J. S. Toterogongora, M. Peccianti, A. Pasquazi</i>	
Normal Dispersion Kerr Cavity Solitons: Beyond the Mean Field Limit	1132
<i>T. Seidel, J. Javaloyes, S. V. Gurevich</i>	
Impact of Loss and Gain on the Nonlinear Spectrum of Dense Optical Soliton Gases	1133
<i>Loic Fache, François Copie, Pierre Suret, Stéphane Randoux</i>	
Controlling Frequency Comb Line Spacing Via Symmetry Broken Faticons	1134
<i>Lewis Hill, Erwan Lucas, Alekhya Ghosh, Juan Diego Mazo Vásquez, Julius T. Gohsrich, Arghadeep Pal, Haochen Yan, Pascal Del'Haye, Gian-Luca Oppo, Stéphane Coen, Flore K. Kunst, Julien Fatome</i>	
Hybridised Solitons in Normal Kerr Cavities with Non-Hermitian Potentials.....	1135
<i>Salim B. Ivars, Carles Milián, Muriel Botey, Ramon Herrero, Kestutis Staliunas</i>	
Mesoscopic Transport of the Second-Harmonic Light Generated Within a Nonlinear Disordered Medium	1136
<i>Alfonso Nardi, Andrea Morandi, Romain Pierrat, Arthur Goetschy, Xuanchen Li, Frank Scheffold, Rachel Grange</i>	
Thermo-Optical Spiking and Mixed-Mode Oscillations in Injected Kerr Microcavities	1137
<i>Elias R. Koch, Julien Javaloyes, Svetlana V. Gurevich</i>	
Main Resonances and Width of RF Power Spectra of Chaotic Output from a Semiconductor Laser System Explained.....	1138
<i>Deb M Kane, Mindaugas Radziunas</i>	
Symmetry Broken Localized Structures in a Coherently-Driven Fabry-Pérot Kerr Resonator.....	1139
<i>Yohann Sanvert, Abdullah Alabbadi, Lewis Hill, Gian-Luca Opp, Stéphane Coen, Erwan Lucas, Pascal Del'Haye, Julien Fatome</i>	
High Detuning Cavity Solitons in a Long Fiber Resonator with Raman Gain.....	1140
<i>G. Semaan, Y. Sun, N. Englebert, C. Simon, S. P. Gorza, F. Leo</i>	
Observation of Polarization Symmetry-Broken Platons in a Passive Kerr Resonator with Normal Dispersion.....	1141
<i>Pengxiang Wang, Changqing Li, Ziang Xiao, Gang Xu</i>	
Manipulation of the Spatiotemporal Trajectories of Solitons Using Arbitrary Potentials in Recirculating Fiber Loop.....	1142
<i>François Copie, Pierre Suret, Stéphane Randoux</i>	
Generation of THz Repetition-Rate Femtosecond Pulse Trains at 1030 nm Using Dual-Frequency Beat Compression in Photonic Crystal Fiber.....	1143
<i>Abdelkrim Bendahmane, Fedele Pisani, Giorgio Santarelli, Gianluca Galzerano, Eric Cormier</i>	
Experimental Observation of Self-Frequency-Shifting Raman Quasisolitons in Fiber Fabry-Perot Resonators	1144
<i>Thomas Bunel, Matteo Conforti, Arnaud Mussot</i>	

On the Kerr-Induced Synchronizations of Cavity Solitons and Their Applications	1145
<i>Grégory Moille</i>	
Interplay Between Cavity Solitons and Doubly Resonant Brillouin Lasing.....	1146
<i>Corentin Simon, Matteo Conforti, Loïc Van Bellingen, Maxime Fournier, François Leo, Arnaud Mussot, Simon-Pierre Gorza</i>	
Soliton Auto-Generation Within Kerr Resonators Under Pulsed-Driving.....	1147
<i>Matthew Macnaughtan, Zongda Li, Yiqing Xu, Xiaoming Wei, Zhongmin Yang, Stéphane Coen, Miro Erkintalo, Stuart G. Murdoch</i>	
Transition of Parametrically Driven Cavity Soliton to Soliton Crystals.....	1148
<i>Y. Sun, C. Dupont, E. K. Akakpo, F. De Lucia, G. Semaan, S. P. Gorza, F. Leo</i>	
Optical Frequency Comb Generation in Quadratic Resonator with Spectral Filtering.....	1149
<i>Minji Shi, Nicolas Englebert, François Leo, Dmitry Skryabin, Auro M. Perego</i>	
Dark Pulse Formation in an Integrated Optical Parametric Oscillator	1150
<i>Nicolas Englebert, Robert M. Gray, Thomas Zacharias, Rithvik Ramesh, Ryoto Sekine, Luis Ledezma, Benjamin K. Gutierrez, Pedro Parra-Rivas, Alireza Marandi</i>	
Investigating the Mechanism Behind the Formation of a Stable Sech ² -Shaped Raman Comb in a Silica Microtoroid Driven by Continuous-Wave with Specific Dispersion.....	1151
<i>Heng Wang, Ryo Otake, Riku Imamura, Liu Yang, Hayato Matsuyama, Shun Fujii, Takasumi Tanabe</i>	
Multi-Color Solitons in Second-Order Dispersion Microresonators	1152
<i>Alioune Niang, Pradyoth Shandilya, Gary Carter, Curtis R. Menyuk</i>	
Transdimensional Approach for Studying Multidimensional Cavity Solitons	1153
<i>Y. Sun, P. Parra-Rivas, F. Leo, C. Milián, S. Wabnitz</i>	
Coherent Dissipative Structures in Arbitrary Dispersion-Engineered Gallium Phosphide Fabry-Perot Resonators.....	1154
<i>Alisa Davydova, Andrey Gelash, Alberto Nardi, Nikolai Kuznetsov, Paul Seidler, Tobias J. Kippenberg</i>	
Substrate-Driven Modulation of Photon Pair Generation in Quantum Optical Metasurfaces	1155
<i>Alberto Paniate, Ivano Ruo Berchera, Marco Genovese, Francesco Monticone</i>	
Monte-Carlo-Markov-Chain Detector Tomography of Nanobridge SNSPDs with 56% Quantum Efficiency	1156
<i>F. B. Baalbergen, I. E. Zadeh, M. P. Van Exter, M. J. A. De Dood</i>	
Many-Body Quantum Optics of Superfluorescent Perovskite Quantum Dots	1157
<i>C. Mechel, A. Gorlach, S. Levy, S. Katznelson, R. Strassberg, Y. Bekenstein, I. Kaminer</i>	
Single-Photon Emission from Silicon-Vacancy Color Centers in Polycrystalline Diamond Membranes	1158
<i>Assegid M. Flatae, Florian Sledz, Haritha Kambalathmana, Stefano Lagomarsino, Silvio Sciortino, Christoph Wild, Eckhard Wörner, Mario Agio</i>	
Detector-Less Near-Field Quantum Nanoscopy in the Far-Infrared.....	1159
<i>Miriam Serena Vitiello</i>	

Electrical Modification of Single THz Meta-Atom Ultrastrong Light Matter Interaction.....	1160
<i>Elsa Jöchl, Anna-Lydia Vieli, Lucy Hale, Felix Helmrich, Deniz Turan, Mona Jarrahi, Mattias Beck, Jérôme Faist, Giacomo Scalari</i>	
Nanometer-Scale Phononic Resonators for Long-Wave-Infrared Radiation	1161
<i>Michel Klein, Alisa Perutski, Jean-Paul Hugonin, Itai Epstein</i>	
Nonlinear THz Response in Ultrathin Au Films.....	1162
<i>Rokas Jutas, Andrius Baltuška, Audrius Pugžlys, Claudia Gollner, Yannic U. Staechelin, Holger Lange, Jonas Grumm, Andreas Knorr</i>	
Chiral Exciton Polaritons in a WS ₂ Monolayer	1163
<i>Matthias J. Wurdack, Sarka Vavreckova, Ivan Iorsh, Tobias Bucher, Eliezer Estrecho, Sebastian Klimmer, Zlata Fedorova, Huachun Deng, Qinghai Song, Giancarlo Soavi, Falk Eilenberger, Thomas Pertsch, Isabelle Staude, Yuri Kivshar, Elena A. Ostrovskaya</i>	
Nanoscale Control Over Magnetic Light-Matter Interactions	1164
<i>Benoît Reynier, Eric Charron, Obren Markovic, Bruno Gallas, Alban Ferrier, Sébastien Bidault, Mathieu Mivelle</i>	
CLEO®/Europe-EQEC 2025 Coherent Control in Size Selected Semiconductor Quantum Dot Thin Films.....	1165
<i>Victor Kärcher, Tobias Reiker, Pedro F. G. M. Da Costa, Andrea S. S. De Camargo, Helmut Zacharias</i>	
Strongly Inhibited Spontaneous Emission of PbS Quantum Dots Covalently Bound to 3D Silicon Photonic Band Gap Crystals.....	1166
<i>Andreas S. Schulz, Marek Kozon, G. Julius Vancso, Jurriaan Huskens, Willem L. Vos</i>	
Single Molecule Spectroscopy of Emitters in Hexagonal Boron Nitride	1167
<i>Osama Farooqui, Klas Lindfors</i>	
Plasmon-Induced Low Energy Interband Transitions in Porous Gold Films	1168
<i>Tlek Tapani, Jonas M. Pettersson, Nils Henriksson, Denis Garoli, Nicolò Maccaferri</i>	
Few Photons Probe Third-Order Nonlinear Properties of Nanomaterials in a Plasmonic Nanocavity.....	1169
<i>Anupa Kumari, Mohammadreza Aghdaee, Mathis Van De Voorde, Oluwafemi Stephen Ojambati</i>	
Nitrogen-Vacancy Center Hybridization with External Emitters Leading to Improved Sensing Capabilities.....	1170
<i>Marc Espinosa Edo, Xavier Vidal</i>	
Suppressing Photobleaching of J-Aggregates Via Strong Light-Matter Coupling	1171
<i>Yadav Rohit Umashankar, Parinda Vasa</i>	
Trapping and Interfacing Laser-Cooled Strontium Atoms Using an Optical Nanofiber.....	1172
<i>Luca Göcke, Hector Letellier, Philipp Schneeweiss, Jürgen Volz, Arno Rauschenbeutel</i>	
Full Control of the Electric and Magnetic Light-Matter Interactions Through a Nanomirror on a Near-Field Tip	1173
<i>Benoît Reynier, Eric Charron, Obren Markovic, Bruno Gallas, Alban Ferrier, Sébastien Bidault, Mathieu Mivelle</i>	
Enhancing the Luminescence of Mos ₂ Using an Epsilon-Near-Zero Underlayer.....	1174
<i>Sraboni Dey, Renjith Nadarajan, Joy Mitra</i>	

Lithium Niobate Metasurface for GHz and Efficient Electro-Optical Modulation in the Linear and Nonlinear Regime.....	1175
<i>Agostino Di Francescantonio, Alessandra Sabatti, Helena Weigand, Elise Bailly, Maria Antonietta Vincenti, Luca Carletti, Jost Kellner, Attilio Zilli, Marco Finazzi, Michele Celebrano, Rachel Grange</i>	
Accessing Optical Magnetic Dipole Transitions in Eu ³⁺ Ions by Manipulating Light Properties and Sample Morphology	1176
<i>Elizaveta Gangrskaja, Alessandra Bellissimo, Christoph Eisenmenger-Sittner, Thomas Schachinger, Hongtao Hu, Andrius Baltuška, Audrius Pugžlys</i>	
Plasmonic Effects on Information Flow in Optical Localization Metrology.....	1177
<i>Huanli Zhou, Thomas A. Grant, S. Rotter, Kevin F. Macdonald, Nikolay I. Zheludev</i>	
On-Chip Stark Tuning of Molecular Resonances in Nanoprinted Crystals	1178
<i>Mohammad Musavinezhad, Alexey Shkarin, Jan Renger, Tobias Utikal, Stephan Götzinger, Vahid Sandoghdar</i>	
Spontaneous Emission Beyond Dipolar Approximation: Two-Photon Emission, Interferences and Large Emitters	1179
<i>Steve Smeets, Mhamad Hantro, Bjorn Maes, Colin Van Dyck, Gilles Rosolen</i>	
Arrangement-Dependent Photon Pair Generation in 2D Arrays of Nonlinear Emitters.....	1180
<i>Sergey Krasikov, Maximilian A. Weissflog, Thomas Pertsch, Frank Setzpfandt, Sina Saravi</i>	
Coherent Transient Absorption Features of Hot and Cold Excitons in a Single Quantum Dot	1181
<i>Darius Hashemi Kalibar, Sarah Linder, Lorenz Möhrle, Alfred Leitenstorfer, Ron Tenne</i>	
Dynamics and Decoherences in Artificial Light-Harvesting Complexes	1182
<i>Lukas Strauch, Stefan Nimmrichter, Mario Agio</i>	
Electrical Modulation of Plasmonic Nano Particle Surfaces.....	1183
<i>Luka Zurak, Christian Wolff, Jessica Meier, Rene Kullock, Asger Mortensen, Bert Hecht, Thorsten Feichtner</i>	
Probing Nonlinear Optical States with Free Electrons	1184
<i>F. Jasmin Kappert, Yujia Yang, Jan-Wilke Henke, Arslan S. Raja, Germaine Arend, Guan hao Huang, Armin Feist, Zheru Qiu, Rui Ning Wang, Aleksandr Tushin, Alexey Tikan, Tobias J. Kippenberg, Claus Ropers</i>	
Electron Tomography of Optical Phase Singularities	1185
<i>Tamir Shpiro, Ron Ruimy, Qinghui Yan, Ido Kaminer</i>	
Ultrafast Coulomb Blockade in an Atomic-Scale Quantum Dot.....	1186
<i>Laric Bobzien, Jonas Allerbeck, Nils Krane, S. Eve Ammerman, Daniel E. Cintron Figueroa, Chengye Dong, Joshua Robinson, Bruno Schuler</i>	
All-Optical Microscopy with Combined Atomic-Scale Spatial and Subcycle Temporal Resolution.....	1187
<i>Felix Schiegl, Thomas Siday, Johannes Hayes, Fabian Sandner, Peter Menden, Valentin Bergbauer, Martin Zizlsperger, Svenja Nerreter, Sonja Lingl, Jascha Repp, Jan Wilhelm, Markus A. Huber, Yaroslav A. Gerasimenko, Rupert Huber</i>	
Ultrafast Nonreciprocal Transmission Modulation in Metasurfaces with Epsilon-Near-Zero Materials.....	1188
<i>Albert Mathew, Rebecca Aschwanden, Aditya Tripathi, Piyush Jangid, Basudeb Sain, Thomas Zentgraf, Sergey Kruk</i>	

Ultrafast Nanoscopy of Carrier Dynamics and Nanoscale Morphology in Metal Halide Perovskites	1189
<i>Svenja Nerreter, Martin Zizlsperger, Qimu Yuan, Kilian B. Lohmann, Fabian Sandner, Felix Schiegl, Christian Meineke, Yaroslav A. Gerasimenko, Laura M. Herz, Thomas Siday, Markus A. Huber, Michael B. Johnston, Rupert Huber</i>	
Towards Large-Scale AI-Driven Inverse Design in Metaphotonics: Experimental Generation of Million-Scale Datasets.....	1190
<i>Sergei Rodionov, Arturo Burguete-Lopez, Maxim Makarenko, Valeri Lopez-Nunez, Qizhou Wang, Andrea Fratallocchi</i>	
Automatic Discovery of Q-BIC Metasurfaces with Diffusion Models	1191
<i>Zesheng Chen, Zhiying Song, Weiwei Cai, Tawfique Hasan</i>	
α -MoO ₃ for Phase Retardation and Chirality in the Mid-Infrared Range	1192
<i>M. Enders, M. Sarkar, M. F. Picardi, M. Giteau, E. Klironomou, Georgia T. Papadakis</i>	
Plasmon-Enhanced Optical Rotation and Circular Dichroism in Near-Zero Index Chiral Metamaterial.....	1193
<i>Ashis Paul, Matteo Venturi, Raju Adhikary, Leone Di Mauro Villari, Giovanna Salvitti, Carino Ferrante, Davide Tedeschi, Francesco Di Stasio, Andrea Toma, Hatice Altug, Andrea Marini</i>	
Bound States in a Continuum Empowering Maximum Chirality and Strong Coupling Regime in Plasmonic Metasurfaces	1194
<i>Hanan Ali, Lucio Claudio Andreani, Giovanni Pellegrini, Emilija Petronijevic</i>	
Observation of the Orbit–Orbit Interaction of Light in Plasmonics	1195
<i>Raghvendra P. Chaudhary, Avraham Reiner, Nir Shitrit</i>	
Near-Field Electron Ptychography of Metasurfaces.....	1196
<i>Tamir Shpiro, Ron Ruimy, Michael Yannai, Tom Lenkiewicz, Amit Kam, Ido Kaminer</i>	
Polarization-To-Spatial Degree-Of-Freedom Converter with Cascaded Metasurfaces	1197
<i>Shiu Hei Lam, Jinyong Ma, Thomas Pertsch, Andrey A. Sukhorukov</i>	
Remote Focus Control: 3D Nanoprinted Holograms on Multicore Single-Mode Fibers	1198
<i>Mohammadhossein Khosravi, Torsten Wieduwilt, Matthias Zeisberger, Adrian Lorenz, Markus A. Schmidt</i>	
Ultrafast Tuning of Radiative Optical Losses in Quasi-Bound States in the Continuum	1199
<i>Thomas Possmayer, Andreas Aigner, Thomas Weber, Leonardo De S. Menezes, Stefan A. Maier, Andreas Tittl</i>	
Ultrafast Terahertz Pulse Generation Enabled by Resonant All-Dielectric Metasurfaces	1200
<i>Luke Peters, Davide Rocco, Luana Olivieri, Unai Arregui Leon, Vittorio Cecconi, Luca Carletti, Carlo Gigli, Giuseppe Della Valle, Antonio Cutrona, Juan Sebastian Totero Gongora, Giuseppe Leo, Alessia Pasquazi, Costantino De Angelis, Marco Peccianti</i>	
Size and Cluster Effects on the Electron Relaxation Dynamics in Plasmonic Gold Nanoparticles.....	1201
<i>Lucrezia Catanzaro, Tlek Tapani, Nils Henriksson, Nicolas Boulanger, Esdras J. Canto-Aguilar, Erik Zäll, Vittorio Scardaci, Giuseppe Compagnini, Nicolò Maccaferri</i>	
Spatial Coherence of Thermal Emission Associated with Coherent Perfect Absorption.....	1202
<i>Douglas Oña, Angel Ortega-Gomez, Osmerly Hernández, Iñigo Liberal</i>	
Dual-Functional Metaoptics for Advanced Arbitrary Light Shaping.....	1203
<i>Gianluca Ruffato, Andrea Vogllardi, Daniele Bonaldo, Simone Dal Zilio, Filippo Romanato</i>	

Chiral-Absorber Planar Metasurface Made by Rotation of Simple Achiral Meta-Atoms	1204
<i>Dmytro Gryb, Alexander Antonov, Andreas Tittl, Leonardo De S. Menezes</i>	
Achromatic and Wide Field of View Singlet Metalens for Optical Beam Steering	1205
<i>Jian Cao, Sarra Salhi, Jonathan Peltier, Jean-René Coudevylle, Etienne Herth, Cédric Villebasse, Laurent Vivien, Carlos Ramos, Daniele Melati</i>	
Sensitivity and Pseudospectra of Non-Hermitian Quasi-Periodic Lattices	1206
<i>Ananya Ghatak, Dimitrios H. Kaltsas, Manas Kulkarni, Konstantinos G. Makris</i>	
Plasmon-Enhanced Circular Dichroism for Enantiomeric Discrimination of Chiral Drug Solutions	1207
<i>Matteo Venturi, Raju Adhikary, Ambaresh Sahoo, Carino Ferrante, Isabella Daidone, Francesco Di Stasio, Andrea Toma, Francesco Tani, Hatice Altug, Antonio Mecozzi, Massimiliano Aschi, Andrea Marini</i>	
Enhanced Second Harmonic Generation of NLO Polymer/Plasmonic Au Nanoprism Hybrid Structure	1208
<i>Atsushi Sugita, Kazuki Kuroyanagi, Kei Hosomi, Masayoshi Kamiya</i>	
Continuously Variable Topological Charge of a Vector Vortex Beam Generated by an Integrated Metasurface	1209
<i>Hao Peng, Yuntian Ye, Xu Fang</i>	
Effects of Strain and Plasmon Induced Doping on Raman Modes of MoS ₂ Transferred on a Broadband Plasmonic Light Harvester.....	1210
<i>Dreamsy Manchanda, Umakant Patra, Parinda Vasa</i>	
Minimum Scattering Superabsorbers with Dirac-Delta-Like Radiation.....	1211
<i>Jeng Yi Lee, Irving Rondón, Andrey E. Miroshnichenko, Pai-Yen Chen</i>	
Soft-Nanoimprinted Metasurfaces with Crossing Lattice Resonances in the Visible Range.....	1212
<i>Rachel Grange, Helena Weigand, Virginia Falcone, Luca Carletti, Domenico De Ceglia, Davide Rocco, Hooman Barati Sedeh, Wenhao Li, Natalia M. Litchinitser, Michael Scalora, Maria Antonietta Vincenti</i>	
Electric Field Confinement Optimization in Polycrystalline Barium Titanate Metasurfaces for Electro-Optic Modulation.....	1213
<i>Eleni Prountzou, Helena Weigand, Virginia Falcone, Elise Bailly, Ülke-Linda Talts, Rachel Grange</i>	
Phase-Change Extraordinary Optical Transmission Metasurface for Reconfigurable Spatial Filtering	1214
<i>Stuart Kendall, Joe Shields, Carlota Ruiz De Galarreta, Jacopo Bertolotti, Andrea Alù, C. David Wright</i>	
Metallic Bull's Eye Resonators as a Platform for Directed Single-Photon Emission from TMDC Monolayers.....	1215
<i>Sven Stephan, Ivan Solovev, Victor Mitryakhin, Falk Eilenberger, Christian Schneider, Martin Silies</i>	
Spectrally Tunable Generation of Entangled Photon Pairs from a Tilted Nonlinear Metasurface.....	1216
<i>Shaun Lung, Jinyong Ma, Maximilian A. Weissflog, Jihua Zhang, Sina Saravi, Thomas Pertsch, Frank Setzpfandt, Andrey A. Sukhorukov</i>	
Transmissive Light Modulator and Switchable Beam Splitter Based on Thin-Film Lithium Niobate and ITO.....	1217
<i>Zetian Chen, Noa Mazurski, Jacob Engelberg, Uriel Levy</i>	

Active Phase-Change Metasurfaces for Optical Mode Conversion and Orbital Angular Momentum Control.....	1218
<i>Joe Shields, Carlota Ruiz De Galerreta, Stuart Kendall, Guoce Yang, Mengyun Wang, Nikolaos Farmakidis, Harish Bhaskaran, Jacopo Bertolotti, C. David Wright</i>	
Electrically Tunable LN Metasurfaces for Computational Spectrometers	1219
<i>Zhiying Song, Zesheng Chen, Tairan Li, Alfonso Ruocco, Zongyin Yang, Zhipei Sun, Weiwei Cai, Tawfique Hasan</i>	
Dynamic and Reversible Plasmonic Nanogaps from Isolated Dimer Nanoparticles Via Self-Assembly.....	1220
<i>Vasanthan Devaraj, Isaac Azahel Ruiz Alvarado, Jongmin Lee, Jin-Woo Oh, Uwe Gerstmann, Wolf Gero Schmidt, Thomas Zentgraf</i>	
Active Tunable Extraordinary Optical Transmission in the Visible Regime	1221
<i>Hira Asif, Mehmet Emre Tasgin, Alpan Bek, Ramazan Sahin</i>	
AlGaAs Nonlinear Pancharatman-Berry Metasurfaces	1222
<i>Luca Carletti, Andrea Gerini, Paolo Franceschini, Andrea Tognazzi, Davide Rocco, Maria A. Vincenti, Domenico De Ceglia, Costantino De Angelis, Giuseppe Leo</i>	
Nonlinear Harmonic Generation in Sub-5 nm Plasmonic Nanogap Metasurfaces.....	1223
<i>Sebastian Beer, Jeetendra Gour, Pallabi Paul, Alessandro Alberucci, Adriana Szeghalmi, Thomas Siefke, Ulf Peschel, Uwe Detlef Zeitner, Stefan Nolte</i>	
Quasi Three Dimensional Gold Plasmonic Metasurfaces for Enhanced Harmonic Generation and Light Conversion to UV	1224
<i>Shroddha Mukhopadhyay, Ana Conde-Rubio, Agustín Mihi, Jose Trull, Maria Antonietta Vincenti, Michael Scalora, Crina Cojocar</i>	
Enhancing Photon Outcoupling from Metasurface-Embedded Single Quantum Emitters.....	1225
<i>Samuel Prescott, Prasad P. Iyer, Sadvikas Addamane, Hyunseung Jung, Jaeyeon Yu, Igal Brener, Oleg Mitrofanov</i>	
Tailoring the Luminescence Properties of Strong Excitonic Emitters with Dielectric Metasurfaces.....	1226
<i>Marco Marangi, Alexander Dubrovkin, Andrea Zacheo, Giorgio Adamo, Cesare Soci</i>	
Precise Positioning of Quantum Dots at the Tips of Gold Bipyramids for Room-Temperature Strong Coupling	1227
<i>Kseniia Mamaeva, Hodjat Hajian, Carolyn Elliott, Teodora Faraone, Colm Delaney, Larisa Florea, A. Louise Bradley</i>	
Experimental Evidence of Intervallence Plasmons in Boron Doped Diamond	1228
<i>Souvik Bhattacharya, Jonathan Boyd, Sven Reichardt, Valentin Allard, Amir Hossein Talebi, Nicolò Maccaferri, Olga Shenderova, Aude L. Lereu, Ludger Wirtz, Giuseppe Strangi, R. Mohan Sankaran</i>	
First Experimental Observation of Edge Bound State in the Continuum on Silicon Photonic Crystal	1229
<i>Rodrigo Sato, Christian Vinther Bertelsen, Maxim Nikitin, Elena Lopez Aymerich, Radu Malureanu, Winnie Edith Svendsen, Osamu Takayama, Andrei V. Lavrinenko</i>	
The Nonlinear Limit of Babinet's Principle.....	1230
<i>Valentin Dichtl, Thorsten Schuhmacher, Markus Lippitz</i>	
Ultrafast Imaging of Polariton Propagation and Nonlinear Optics in Semiconductor Microcavities.....	1231
<i>D. Xu, Y. Hong, A. Mandal, C. Trovatiello, D. Basov, J. Schuck, D. Reichman, M. Delor</i>	

Coherently Stacked Boron Nitride Nanotubes with a Strong Nonlinear Chiroptical Response	1232
<i>Chenjun Ma, Chaojie Ma, Chang Liu, Quanlin Guo, Hao Hong, Kaihui Liu</i>	
Nonlinear Thermoplasmonics in Photoexcited Graphene Nanoribbons.....	1233
<i>Line Jelver, Joel D. Cox</i>	
Ultrafast Nonlinear Optical Properties and Carrier Dynamics of Ta ₄ C ₃ Tx and Mo ₂ Ti ₂ C ₃ Tx MXene Nanosheets.....	1234
<i>Michalis Stavrou, Benjamin Chacon, Maria Farsari, Anna Maria Pappa, Lucia Gemma Delogu, Yury Gogotsi, David Gray</i>	
Spatially Single-Cycle Polaritons in 2D Materials	1235
<i>A. Niedermayr, T. Bucher, X. Shi, Y. Fridman, H. Nahari, R. Dahan, R. Ruimy, A. Gorlach, E. Janzen, J. H. Edgar, F. H. L. Koppens, H. H. Sheinflux, I. Kaminer</i>	
Extreme-Ultraviolet Optical Response of Atomically Thin MoS ₂ Crystals.....	1236
<i>Nicola Di Palo, Giacomo Inzani, Gian Luca Dolso, Simone Bonetti, Qiuyang Li, Fang Liu, Xiaoyang Zhu, Angelo Giglia, Nicola Mahne, Luca Pasquali, Marco D'Alessandro, Mikhail Malakhov, María Camarasa-Gómez, Juan José Esteve-Paredes, Juan José Palacios Burgos, Rocío Borrego-Varillas, Mauro Nisoli, Antonio Picón, Davide Sangalli, Matteo Lucchini</i>	
Anomalous Lifetime of Optical Phonons in Graphene at Buried Interfaces	1237
<i>Tsuneto Kanai, Chengxiang Jin, Hibiki Tsunekawa, Atsunori Sakurai, Toshiki Sugimoto</i>	
Tracing the Internal Fine Structure of Quasi-1D Excitons Controlled by Magnetic Order in CrSBr.....	1238
<i>A. D. Koulouklidis, M. Liebich, M. Florian, N. Nilforoushan, F. Mooshammer, L. Wittmann, K. Mosina, Z. Sofer, F. Dirnberger, M. Kira, R. Huber</i>	
All-Optical Polarization Encoding and Modulation by Nonlinear Interferometry at the Nanoscale	1239
<i>Michele Celebrano, Yigong Luan, Attilio Zilli, Agostino Di Francescantonio, Vincent Vinel, Paolo Biagioni, Lamberto Duò, Aristide Lemaître, Giuseppe Leo, Marco Finazzi</i>	
A Macroscopic QED Approach to Superconductivity	1240
<i>Daniel Teitelman, I-Te Lu, Nicholas Rivera, Ángel Rubio, Ofer Neurfeld, Ido Kaminer</i>	
Ultrafast Carrier Dynamics in HgPSe ₃	1241
<i>Alessandro Baserga, Micol Bertolotti, Valentino Jadriško, Nikolas Antonatos, Zdenek Sofer, Antonella Treglia, Annamaria Petrozza, Samim Sardar, Giuseppe Parternò, Giulia Folpini, Cosimo D'Andrea, Giulio Cerullo, Christoph Gadermaier, Stefano Dal Conte</i>	
Applicated Transformer Model for vdW Materials Identify Process.....	1242
<i>Wing-Sing Cheung, Min-Hsuan You, Si-Yao Syu, Yu-Hsun Chou, Chi-Yeh Chen</i>	
PT- And PD- Noble-Metal Dichalcogenides: Synthesis, Properties and Applications	1243
<i>Vera Marinova, Nikolay Minev, Blagovest Napoleonov, Vladimira Videva, Dimitre Dimitrov</i>	
Isotype Heterojunction n ⁺ -ZnO/N-Si Photodetector with Tunable Wavelength-Selective, High- Speed, and Self-Powered Operation.....	1244
<i>Michael D. Tsanakas, Angelina Jaros, Yves Fleming, Metamorfi Efthimiadou, Tobias Voss, Renaud Leturcq, Spiros Gardelis, Maria Kandyla</i>	
Polarization Mixing, Bound States in a Continuum, and Exciton-Polaritons in Photonic Crystal Slabs by a Guided-Mode Expansion Approach.....	1245
<i>Simone Zanotti, Momchil Minkov, Davide Nigro, Dario Gerace, Shanhui Fan, Lucio C. Andrean</i>	

Neural Network Inverse Design of Nanophotonic Scintillators	1246
<i>Nathan Regev, Avner Shultzman, Francis Loignon-Houle, Charles Roques-Carmes, Ido Kaminer</i>	
Exploring Parasitics and Coupling Between Optically Driven Nanoantennas and Interconnects in Petahertz Electronic Circuits	1247
<i>Adina Bechhofer, John Simonaitis, Felix Ritzkowsky, Luca Daniel, Karl K. Berggren, Phillip D. Keathley</i>	
Quantum Treatment of Two-Color-Induced THz Field Generation.....	1248
<i>Paul David Peregrina, Fabrice Catoire, Luc Bergé</i>	
Sub-2-Fs VUV Pulse Generation Carrying Orbital Angular Momentum	1249
<i>Amadou Diallo, Marc Hanna, Dominique Descamps, Fabrice Catoire</i>	
Stochastic Modeling of Quantum Signatures in Driven Two-Level Systems.....	1250
<i>Felix Hitzelhammer, Johannes Stowasser, Michael Haider, Christian Jirauschek, Gaby Slavcheva, Ulrich Hohenester</i>	
Modeling of Microwave Modulated Quantum Cascade Lasers.....	1251
<i>M. Schreiber, U. Senica, J. Stowasser, L. Seitner, M. Haider, G. Scalari, C. Jirauschek</i>	
Power Control in Non-Hermitian Lattices Through Singular Value Decomposition	1252
<i>Konstantinos G. Makris, Demetri Psaltis</i>	
Optical Vortex Rings: Reconnections and Catastrophes.....	1253
<i>Zhamila Kulchukova, Albert Ferrando, Anton Desyatnikov</i>	
Nonlinear Optical Properties of Molecular Materials, Structures and Devices Thereof: A Theoretical Multi-Scale Approach.....	1254
<i>Marjan Krstic, Mariia Poleva, Benedikt Zerulla, Christof Holzer, Ivan Fernandez-Corbaton, Carsten Rockstuhl</i>	
A Semi-Analytic Model for Tightly Focused Ultrashort Pulses in the Nonlinear Regime	1255
<i>Alessandro Alberucci, Chandroth P. Jisha, Stefan Nolte</i>	
A Time-Delayed Renewal Model for Kerr Frequency Combs	1256
<i>J. Yelo-Sarrión, J. Sieber, S. V. Gurevich, J. Javaloyes</i>	
Modeling Frequency Micro-Combs with Second Kind Fredholm Equations	1257
<i>Pol Molina-Grifols, Carlos Mas Arabí, Pedro Fernandez De Córdoba, Jose Alberto Conejero, Alejandro Martínez, Carles Milián</i>	
SpectRal-Crystal Efficiency-Mapping (SCEM): A Powerful Analytical Tool for modElling Quasi-Phase-Matched Interactions.....	1258
<i>Sebastian C. Robarts, Richard A. McCracken</i>	
Advanced Bragg Grating Reflectance Analysis Using FDTD for Coupled Mode Theory-Based Surrogate Models	1259
<i>Yasmin Rahimof, Igor A. Nechepurenko, M. R. Mahani, Andreas Wicht</i>	
ImpRoving Conditional Generative Adversarial Networks for Inverse Design of Plasmonic Nanostructures Using Label Projection and Embedding Methods	1260
<i>Petter Persson, Nils Henriksson, Nicolò Maccaferri</i>	

Fidelity Estimation of Linear Pixel Array Photon Number Detectors	1261
<i>L. Limongi, M. Bernard, M. Lobino, A. Quaranta, A. Gaggero, F. Martini, F. Mattioli, Andrea Salamon</i>	
Digital Compensation of Signal Distortions in Fiber Communication Lines Based on Perturbation Theory and Machine Learning	1262
<i>Paul Ilyushin, Daniil Shipilo, Irina Nikolaeva, Nikolay Panov, Olga Kosareva</i>	
Photonic Fabric™ for Optical Interconnect Networks in AI	1263
<i>Subal Sahni, Ankur Aggarwal, Nadav Bergstein, Trung Diep, Jing Ding, Andrew Gimlett, Ravi Mahatme, Parmanand Mishra, Romanas Narevich, Sujit Ramachandra, Matteo Staffaroni, Angelina Totovic, Saurabh Vats, Phil Winterbottom, Waleed Younis, Shifeng Yu, David Lazovsky</i>	
BYOD: A System-Level Simulator Framework for End-To-End Evaluation and Architecture Design of Photonic AI Accelerators	1264
<i>Fabian Böhm, Sébastien D'Herbais De Thun, Morten Kapusta, Matej Hejda, Bassem Tossoun, Ray Beausoleil, Thomas Van Vaerenbergh</i>	
Photonic Convolution Accelerator Employing Barium Titanate Electro-Optic Phase Shifters	1265
<i>Anna Fischer, Folkert Horst, Matthew J. Filipovich, Bert J. Offrein</i>	
Multi-Chiplet Implementation of a TOPS-Ready Hyperdimensional AWGR-Based Photonic Tensor Core	1266
<i>C. Pappas, A. Prapas, M. Moralis-Pegios, A. Tsakyridis, T. Moschos, S. Kovaivos, O. Asimopoulos, M. Kirtas, N. Passalis, K. Vyrsokinos, A. Tefas, N. Pleros</i>	
The Potential of Efficient Photonic Multiply-Accumulator Processors	1267
<i>N. Bahr, D. Steinmeyer, J. Dijkstra, W. Pernice</i>	
Best of Both Worlds' Neuromorphic Computing in 3D Photonic-Electronic Integrated Neural Networks	1268
<i>S. J. Ben Yoo</i>	
III-V Semiconductor Nanopillar Arrays for an Insect Vision Inspired Neuromorphic on-Chip Platform	1269
<i>João Azevedo, Bejoys Jacob, Jana Nieder, Bruno Romeira</i>	
Fast Edge Detection in Time-Series Using Photonic-Electronic Spiking Resonant Tunnelling Diode Neurons	1270
<i>Dafydd Owen-Newns, Giovanni Donati, Andrew Adair, Dylan Black, Edward Wasige, José M L Figueiredo, Bruno Romeira, Joshua Robertson, Antonio Hurtado</i>	
Unlocking New Frontiers in Scalable Photonic Artificial Neurons: A Study on Gain-Doped Layer-On-Waveguide-Synapse	1271
<i>Robert Otupiri, Ripalta Stabile</i>	
Photonic Spiking Reservoir Computing Based on a Single Passive Silicon Microring and Time-Wavelength Multiplexing	1272
<i>Giovanni Donati, Stefano Biasi, Alessio Lugnan, Lorenzo Pavesi, Antonio Hurtado</i>	
Parallel Solution Search Using a Spatial Photonic Ising Machine Based on Spatial Multiplexing	1273
<i>Suguru Shimomura, Jun Tanida, Yusuke Ogura</i>	
Optoelectronic Nanowire Neuron	1274
<i>Thomas K. Jensen, Joachim E. Sestoft, Vidar Flodgren, Abhijit Das, Rasmus D. Schlosser, David Alcer, Thomas Kanne, Magnus Borgstrom, Jesper Nygård, Anders Mikkelsen</i>	

The Limits of Supercontinuum Generation for Photonic Neuromorphic Computing	1275
<i>A. V. Ermolaev, M. Hary, L. Leybov, P. Ryczkowski, A. Skalli, D. Brunner, G. Genty, J. M. Dudley</i>	
Linear Information Forwarding in Highly Nonlinear Fibers	1276
<i>Glitta Rosalia Cheeran, Sobhi Saeed, Bennet Fischer, Mario Chemnitz</i>	
VCSEL Based Time-Delayed Spiking Liquid State Machine for Event-Based Flow Cytometry Image Classification	1277
<i>Menelaos Skontranis, Georgios Moustakas, Ioannis Tsillikas, Adonis Bogris, Charis Mesaritakis</i>	
Optical Reservoir Computing Using Frequency Combs in Kerr Microresonators	1278
<i>Negar Shaabani Shishavan, Egor Manuylovich, Morteza Kamalian-Kopae, Auro M. Perego</i>	
Enhancing the Performance of Diffractive Neural Networks with Second-Harmonic Generation	1279
<i>Marie Braasch, Thomas Pertsch, Sina Saravi</i>	
Phase and Amplitude Encoding for All Optical Kernel Methods with a Photonic Lantern	1280
<i>Nolan Desnos, Stefano Negrini, Damien Labat, Géraud Bouwmans, Arnaud Mussot, Esben Ravn Andersen, Siddharth Sivankutty</i>	
Analysis of Noise-Tolerant Free Space Optical Convolution Neural Networks.....	1281
<i>Maryam Dehbashizadeh Chehregan, Ripalta Stabile</i>	
Complex Image Classification with Micro Laser Neurons Integrated with DNN-Assisted Genetic Algorithm	1282
<i>Gibaek Kim, Sylvain Barbay, Laurie Calvet</i>	
Neuromorphic Computing with Nonlinear Dynamics in Photonic Crystal Fiber.....	1283
<i>Azka Maula Iskandar Muda, Ugur Tegin</i>	
High-Speed Spike Rate-Coding in QD Spin-VCSELs for Neuromorphic Encoding.....	1284
<i>Christos Tselios, Panagiotis Georgiou, Christina Tanya Politi, Dimitris Alexandropoulos</i>	
Wavelength-Multiplexed Operation of Photonic-Electronic Resonant Tunnelling Diode Neurons for Scalable Optical Neuromorphic Computing.....	1285
<i>Dylan Black, Joshua Robertson, José Figueiredo, Edward Wasige, Bruno Romeira, Antonio Hurtado</i>	
Light-Induced Neuron-Like Bursting and Oscillatory Dynamics in Neuromorphic Photonic Micropillars	1286
<i>B. Jacob, J. M. L. Figueiredo, J. B. Nieder, B. Romeira</i>	
Resonate-And-Fire Photonic-Electronic Spiking Neuron with a Photo-Detecting Resonant Tunnelling Diode.....	1287
<i>A. Adair, D. Owen-Newns, J. Robertson, J. Figueiredo, E. Wasige, B. Romeira, A. Hurtado</i>	
Plasmonically-Enhanced Phase-Change Integrated Photonic Memory Device.....	1288
<i>Junchao Song, Joe Pady, Ivonne Bente, Wolfram H. P. Pernice, Harish Bhaskaran, C. David Wright</i>	
Readout Optimisation of Phase-Change Integrated Photonic Memory	1289
<i>J. Pady, J. Song, R. Xu, N. Farmakidis, H. Bhaskaran, W. H. P. Pernice, C. D. Wright</i>	

Achieving More with Less: Training a Spiking Neural Network of 40.000 Neurons with Rank Order Coding, Leveraging Sparsity.....	1290
<i>Ria Talukder, Anas Skalli, Daniel Brunner</i>	
On-Chip Optical Communication to Small Footprint Nanowire Neurons.....	1291
<i>Joachim E. Sestoft, Thomas K. Jensen, Vidar Flodgren, Abhijit Das, Rasmus D. Schlosser, David Alcer, Thomas Kanne, Magnus Borgström, Anders Mikkelsen, Jesper Nygård</i>	
Enhancing Cell Sorting Accuracy in Flow Cytometry Using High-Dimensional Computing.....	1292
<i>Yuanli Yue, Muhammed Gouda, Satoshi Sunada, Peter Bienstman</i>	
Accelerating ML Models and NP-Hard Optimisation Problems Using Light	1293
<i>Francesca Parmigiani, Hitesh Ballani, Grace Brennan, Burcu Canakci, Jiaqi Chu, James Clegg, Daniel Cletheroe, Fabian Falk, Christos Gkantsidis, Jannes Gladrow, Kirill Kalinin, Doug Kelly, Heiner Kremer, Greg O'Shea, Babak Rahmani, Ant Rowstron</i>	
Experimental Demonstration of an Intensity-Resolved Coherent Ising Machine Based on Polarization Symmetry Breaking.....	1294
<i>Liam Quinn, Yiqing Xu, Julien Fatome, Gian-Luca Oppo, Stuart G. Murdoch, Miro Erkintalo, Stéphane Coen</i>	
Using a Spatial Light Modulator to Achieve Massive-Parallelization in Analog Ising Machines.....	1295
<i>Toon Sevenants, Guy Van Der Sande, Guy Verschaffelt</i>	
Ising Machine Based on Nonlinear Polarization Oscillators	1296
<i>S. Chiavazzo, M. Calvanese Strinati, C. Conti, D. Pierangeli</i>	
Optical Single-Pixel Sensing for Nonlinear Ising Machines	1297
<i>Luana Olivieri, Andrew Cooper, Luke Peters, Vittorio Cecconi, Alessia Pasquazi, Marco Peccianti, Juan S. Toterogongora</i>	
Multichannel Optical Computing with Multi-Plane Light Converters	1298
<i>Fatma Nur Kilinc, Azka Maula Iskandar Muda, Ugur Tegin</i>	
Single Pixel Image Classification Using Ultrafast Optoelectronic Hardware	1299
<i>Aisha Kanwal, Graeme Johnstone, Johannes H. Herrnsdorf, Robert K. Henderson, Martin D. Dawson, Xavier Porte, Michael J. Strain</i>	
Photonic Neural Networks with Random Projection Kernel Optimization	1300
<i>Bora Çarpinlioglu, Ugur Tegin</i>	
Photonic Extreme Learning with Chaotic Microcavities.....	1301
<i>Matthew R. Wilson, Jack A. Smith, Michael J. Strain, Xavier Porte</i>	
Realtime Inferences Every 125 Ps Using a Semiconductor Laser Recurrent Neural Network	1302
<i>Romain Lance, Anas Skalli, Daniel Brunner</i>	
Properties of Information Processing with Semiconductor Laser Networks.....	1303
<i>Moritz Pflüger, Gemma Infantes-Llinares, Miguel C. Soriano, Apostolos Argyris</i>	
Extreme Learning Machine Using Highly Nonlinear Fiber	1304
<i>Mathilde Hary, Daniel Brunner, Lev Leybov, Piotr Ryczkowski, John M. Dudley, Goëry Genty</i>	
Photonic Neural Networks with Multimode Fibers at the Edge of Spatiotemporal Chaos.....	1305
<i>Bahadir Utku Kesgin, Ugur Tegin</i>	

Performance Trends of Optical and Digital Neural Networks.....	1306
<i>Sobhi Saeed, Mehmet Müftüoğlu, Glitta R. Cheeran, Thomas Bocklitz, Bennet Fischer, Mario Chemnitz</i>	
Unleashing Light: The Cutting-Edge World of Free-Electron Laser (FEL) Sources.....	1307
<i>Gianluca Geloni</i>	
Twin Echo-Enabled Harmonic Generation for Enhanced Coherent Bunching at Short Wavelength	1308
<i>Eugenio Ferrari</i>	
The EuPRAXIA@SPARC_LAB Project: AQUA FEL Beamline	1309
<i>Fabio Villa</i>	
Temporal Shaping of UV Picosecond Pulses for Photoinjectors.....	1310
<i>Denis Iliia, Nihat Ay, Meng Cai, Ye Chen, Uwe Grosse-Wortmann, Ingmar Hartl, Wolfgang Hillert, Yujiao Jiang, Alexander Klemps, Christoph Mahnke, Harsha Panuganti, Federico Pressacco, Hamed Tavakol, Henrik Tünnermann</i>	
Seed Laser Pulse Shaping for Free-Electron Laser FLASH.....	1311
<i>Andreas Thiel, Margarit Asatrian, Giovanni Cirmi, Eugenio Ferrari, Nhat-Phi Hoang, Pardis Niknejadi, Lucas Schaper, Jiaan Zheng, Wolfgang Hillert, Ingmar Hartl, Tino Lang</i>	
Compact, Low-Noise, Low-SWaP Diode Lasers and Photonic Modules for Quantum Technology Applications.....	1312
<i>N. Goossen-Schmidt, B. Arar, A. Bawamia, M. Bursy, J. Fricke, M. Gärtner, S. Gerken, J. Hamperl, S. Hariharam, J. Hirsch, A. Knigge, S. Kubitza, A. Maaßdorf, N. Müller, C. Pyrlík, M. Schiemangk, S. Szermer, C. Tyborski, H. Wenzel, D. Zou, A. Wicht</i>	
A Quantum-Classical Cold Atom System for Inertial Navigation.....	1313
<i>Maxwell Rowley, Alex Webber-Date, Paul F. Osborn, Robert Shah, Teodor Krastev, Rachel Cannon, Paul Griffin, Erling Riis, Joeseeph Cotter, Oliver Burrow, Edward Boughton</i>	
A Rubidium Frequency-Standard Based on a MEMS Vapour Cell.....	1314
<i>Steven Johnson, Allan McWilliam, Eilidh MacLennan, Erling Riis, James McGilligan, Paul Griffin</i>	
Quantum Sensing for Rail Positioning	1315
<i>Andrew David White, A. Ainsworth, D. Bahra, R. Shah, H. Sewell, A. Kaushik, J. P. Cotter</i>	
Integrated Atomic Devices for Field-Deployable Timing and Sensing Applications	1316
<i>Markus Krutzik</i>	
Low-Footprint Fiber-Coupled InGaAs/InP Single-Photon Avalanche Diode Butterfly Module.....	1317
<i>Pascal Rustige, Elisa Collin, Thilo Petsch, Patrick Runge, Martin Schell</i>	
Micro-Integrated Light Control Units for Low-SWaP Quantum Optical Sensing Applications.....	1318
<i>Jonas Hamperl, Marcel Bursy, Martin Gärtner, Nora Goossen-Schmidt, Simon Kubitza, Sonja Nozinic, Max Schiemangk, Christoph Tyborski, Andreas Wicht</i>	
Vacuum CO ₂ Sealing of Monolithic Silica Components for Quantum Applications.....	1319
<i>Christophe Pierre, Andrea Bertoldi, Johan Boulet, Marc Castaing</i>	
Real-Time State Discriminator for Searching Laser Cavity-Solitons in a Microresonator Filtered Fiber Laser.....	1320
<i>Aadithya Suresh, Antonio Cutrona, Sai T. Chu, Brent E. Little, Roberto Morandotti, David J. Moss, Juan Sebastian Totero Gongora, Marco Peccianti, Alessia Pasquazi</i>	

Modelling and Fabrication of Gallium Nitride Lasers for Atomic Clocks	1321
<i>Shuqiao Cai, Finlay Walton, Daehyun Kim, Simon Munro, Sean Mulholland, Ian Hill, Stephen P. Najda, Piotr Perlin, Tadek Suski, Lucja Marona, Mike Leszczynski, Szymon Stanczyk, Patrick Gill, Anthony E. Kelly, Scott Watson</i>	
Examining the Design Trade-Offs of Ge-On-Si Single Photon Avalanche Diodes with Etched Photonic Crystals.....	1322
<i>Charlie K. Smith, Charlie McCarthy, Gerald S. Buller, Douglas J. Paul, Ross Millar</i>	
Nonlinear Transformations in Telecom Devices for Optical Computing	1323
<i>Egor Manuylovich, Dmitrii Stoliarov, David Saad, Sergei K. Turitsyn</i>	
Modelling of Energy-Dependent Nonlinearities in Microresonator Filtered Lasers	1324
<i>A. Cutrona, A. Cooper, J. S. Toterogongora, G.-L. Oppo, M. Peccianti, A. Pasquazi</i>	
Miniaturised Optical Isolators for Realising Micro-Integrated Photonic Modules in Quantum Technology Applications	1325
<i>Marcel Bursy, Ahmad Bawamia, Thomas Flisgen, Nora Goossen-Schmidt, Charleen Luplow, Max Schiemangk, Christoph Tyborski, Andreas Wicht</i>	
Octave-Spanning Soliton Microcomb with Over 50% Conversion Efficiency Enabled by Strong Mode Coupling.....	1326
<i>Andreas Jacobsen, Yang Liu, Thibault Wildi, Yanjing Zhao, Chaochao Ye, Yi Zheng, Camiel Op De Beeck, José Carreira, Michael Geiselmann, Kresten Yvind, Tobias Herr, Minhao Pu</i>	
Formation of Energy-Efficient Multi-Octave Frequency Combs in Nanophotonic Parametric Oscillators.....	1327
<i>Robert M. Gray, Justin Widjaja, Ryoto Sekine, Thomas Zacharias, Alireza Marandi</i>	
3D In-Situ Profiling in a Laser Micromachining Station Using Dual-Comb LiDAR	1328
<i>Hayk Soghomonyan, Justinas Pupeikis, Benjamin Willenberg, Armin Stumpp, Lukas Lang, Christopher R. Phillips, Bojan Resan, Ursula Keller</i>	
Amplification in a Hybrid Erbium Silicon Photonic Waveguide.....	1329
<i>Batoul Hashemi, Bruno L. Segat Frare, Niloofar Majidian Taleghani, Manuel Arturo Méndez-Rosales, Ponnambalam Ravi Selvaganapathy, Andrew P. Knights, Jonathan D. B. Bradley</i>	
High-Energy Mode-Locked Pulses from a Photonic Integrated Mamyshev Oscillator.....	1330
<i>Zheru Qiu, Zhongshu Liu, Xuan Yang, Jianqi Hu, Yichi Zhang, Jiale Sun, Xinru Ji, Grigorii Likhachev, Xurong Li, Zihan Li, Ulrich Kentsch, Tobias Kippenberg</i>	
Cavity-Less Brillouin Strong Coupling in a Solid-State Continuous System.....	1331
<i>Laura Blázquez Martínez, Changlong Zhu, Birgit Stiller</i>	
Individually Controllable Continuous Variable Cluster State on Quantum Photonic Integrated Circuits	1332
<i>Chang You, Xinyu Jia, Chonghao Zhai, Xuezhi Zhu, Yun Zheng, Tianxiang Dai, Zhaorong Fu, Xiaolong Su, Qihuang Gong, Jianwei Wang</i>	
Multi-NV Quantum Sensing with Photonic Integrated Circuits.....	1333
<i>Hao-Cheng Weng, John G. Rarity, Krishna C. Balram, Joe A. Smith</i>	
Nano-Electro-Mechanically-Tuneable Photonic Bowtie Cavities for Enhanced Light-Matter Interactions	1334
<i>Sergei Lepeshov, Daniel Farbowitz, Thor August Schimmell Weis, Nikolaj Balslev Hougs, Mikkel Heuck, Babak Vosoughi Lahijani, Søren Stobbe</i>	

Free-Space Optical Communications Using Terahertz Lasers at Gbit/s Data Rates.....	1335
<i>Jayaprasath Elumalai, Mohammed Salih, Martyn Fice, Adam Brown, Lianhe Li, Edmund H. Linfield, Alexander Valavanis, Alwyn J. Seeds, A. Giles Davies, Joshua R. Freeman</i>	
Autonomous User-Defined Supercontinuum Optimization Via Programmable Liquid-Core Optical Fiber	1336
<i>Mario Chemnitz, Johannes Hofmann, Ramona Scheibinger, Bennet Fischer, Markus A. Schmidt</i>	
Extreme Soliton Dynamics for Terawatt-Scale Optical Attosecond Pulses and 30 GW-Scale Sub-3 Fs Far-Ultraviolet Pulses	1337
<i>Nikoleta Kotsina, Michael Heynck, Joleik Nordmann, Martin Gebhardt, Teodora Grigorova, Christian Brahms, John C. Travers</i>	
Bridging Coherent Octave-Spanning Supercontinuum Generation and Integrated Laser Sources.....	1338
<i>Yanjing Zhao, Yujun Cheng, Kaibin Lin, Yi Zheng, Chanju Kim, Jinhui Yuan, Kresten Yvind, Qian Li, Minhao Pu</i>	
A Few-Femtosecond UV Light Source for the Realtime Tracking of Coherent Electron and Nuclear Dynamics in Molecules	1339
<i>Ammar Bin Wahid, Kate Robertson, Aurelien Sanchez, Sergey Ryabchuk, Josina Hahne, Pasquale Barbato, David Amorim, Erik Månsson, Terry Mullins, Vincent Wanie, Roberto Osellame, Rebeca Martínez Vázquez, Francesca Calegari</i>	
Sub-Atomic Motions from Capturing Electrons to Probing Human Health.....	1340
<i>Ferenc Krausz</i>	

Author Index