

# **2010 International Conference on Photonics**

## **(ICP 2010)**

**Langkawi, Malaysia  
5-7 July 2010**



**IEEE Catalog Number: CFP1099J-PRT  
ISBN: 978-1-4244-7186-7**



## 1<sup>ST</sup> INTERNATIONAL CONFERENCE ON PHOTONICS 2010 (ICP2010)

### TABLE OF CONTENTS

No	Paper ID	Title	PID
1	ICP2010-2	Development of Modified Zero Cross Correlation Code (MZCC) for OCDMA Network	PID1329583
+	ICP2010-3	Study of Carbon Density for the Development of High Efficiency X-ray Optics	PID1307555
%	ICP2010-4	Design Effect on EDL Output	-
%*	ICP2010-5	Performance Analysis of Decision Feedback Time-Domain Equalizer for 20.48 Gb/s Direct-Detection Optical OFDM Transmission Over 2560 km of SMF	PID1309441
&\$	ICP2010-6	Performance Analysis of Least Mean Square Time-Domain Equalizer in Long-Haul Direct-Detection Optical OFDM Transmission	PID1309449
&(	ICP2010-8	A Transmission Line Model for Extraction of Defect Modes in Two-Dimensional Photonic Crystals	PID1298469
&7	ICP2010-9	Transmission Line Model for One-Dimensional Metallic Grating in TE Polarization	PID1298477
' \$	ICP2010-10	A Novel Technique for Doping Silicate Glasses with Transition Metals and Rare-Earth for Waveguides Applications	PID1308261
' *	ICP2010-11	Photonic Up-Conversion Frequency Utilizing Harmonic Balance Simulation Analysis	PID1298741
(\$	ICP2010-14	The First Fiber-To-The-School Deployment in Malaysia	-
(()	ICP2010-16	One EDFA Loop in 16 Channels Spectrum Slicing WDM for FTTH Network	PID1298467
) \$	ICP2010-17	Complete Bandgap in Two Dimensional Photonic Crystals with Square Bravais Lattice	PID1309733
) )	ICP2010-19	Spectrum Envelope Analysis of Sampled Gratings with Different Sampling Segments	PID1298075
) -	ICP2010-20	Optical DWDM Filters Using Optical Multilayer Structures	PID1298059
*(	ICP2010-21	Plastic Optical Fiber Coupler for Next Generation "Do It Yourself" Optical Component	-
* ,	ICP2010-25	Optical Power Budget and Developing Costs for Intelligent Fiber-To-the-Home (iFTTH)	PID1298717
+'	ICP2010-27	Physical Layer Monitoring Technique in 8-	PID1298719



		branched PON-based i-FTTH	
+8	ICP2010-28	Simulation of Apodization Profiles Performances for Unchirped Fiber Bragg Gratings	PID1299143
, '	ICP2010-31	Security Proof of Improved-SARG04 Protocol Using the Same Four Qubit States	PID1329645
, +	ICP2010-32	Influence of Immerse Time on the Properties of Zinc Oxide Nanostructures	-
- \$	ICP2010-33	Proposal for All-optical Controllable Double State Switch using Dipole Induced Transparency (DIT)	PID1298033
- *	ICP2010-34	Effect of Guard Band on the Performance of AP-DCDM Technique in 40 Gb/s Optical Fiber Communication system	-
--	ICP2010-35	Resolution Improvement in High-Speed Fiber-Optic Spectrometers Using Photonic Crystal Fibers	PID1298071
%\$(	ICP2010-36	Optimization of Device Model for Metal-based 1x2 Y-Branch Plastic Optical Fiber Coupler	-
%\$-	ICP2010-39	Modeling 2R Regenerator based on High Nonlinear Dispersion Imbalanced Loop Mirror (HN-DILM)	-
%%	ICP2010-40	Direct Current Magnetron Sputter-Deposited ZnO Thin Films	-
%%"	ICP2010-43	Hybrid Buffering Architecture using Feed-Forward and Feedback Share Fiber Delay Lines	-
%&\$	ICP2010-46	Hybrid SAC/Optical CDMA-WDM overlay System for Enhancing Network Security	PID1299135
%&(`	ICP2010-48	Investigation of a Ternary 1D Photonic Crystal Band Gap Width	PID1301959
%&-	ICP2010-49	Design of a Low-Cost 10 Gb/s Chip-to-Chip Optical Interconnect	PID1297777
% ')	ICP2010-51	Design and Analysis of SOI based Rib Waveguide Biomedical Transducer	-
% *`	ICP2010-52	Security and Performance Tradeoffs in Optical CDMA Network Systems	PID1310319
%(\$	ICP2010-53	Compact Long-wavelength band Brillouin-Erbium Fiber Laser in a Fabry-Perot Resonator	PID1311485
%(')	ICP2010-54	Single Transverse Mode Photonic Crystal VCSEL with Trench Patterning	PID1311475
%,(	ICP2010-55	Phase modulator based on Silicon-on-insulator (SOI) rib waveguide	PID1310477
% %`	ICP2010-56	On the Modulation Phase Efficiency of a Silicon p-i-n Diode Optical Modulator	PID1310483
%(`)	ICP2010-59	Effect of Different Gain Medium Length in	PID1311889



		Brillouin Erbium-Ytterbium Doped Fiber Laser	
% -	ICP2010-62	Holographic Mode Field Generation for a Multimode Fiber Channel	PID1306279
%*' ,	ICP2010-63	Performance Assessment of a 2 Gb/s Hybrid Optical-Wireless Access Network	PID1298425
%*,	ICP2010-64	Modeling and Performance Study of Inter-Satellite Optical Wireless Communication System	-
%+&	ICP2010-66	Acrylic-based Y-Branch Plastic Optical Fiber Attenuator	-
%+,	ICP2010-68	Modal Decomposition of Output Field from Optimized Holographic Mode Field Generation in a Multimode Fiber Channel	PID1306287
% ',	ICP2010-69	An Active Downlink Photonic Antenna	PID1311845
% ,	ICP2010-70	Delay analysis of a DBA using fuzzy logic for upstream EPON	PID1326687
% ',	ICP2010-75	Optical Diagnostics in High-Speed Fuel Spray; Methodology and Analysis	-
% -	ICP2010-78	Sparse Grooming Sites in All-Optical Networks	PID1312329
&\$(	ICP2010-79	Analysis of S-band EDFA Utilising Macro-bending Approach	PID1312007
&+\$	ICP2010-80	Disjoint Path Re-routing in Optical Networks	PID1312317
&%&	ICP2010-82	Photonic Liquid Crystal Fibers: Towards Highly Tunable Photonic Devices	PID1301683
&%+	ICP2010-83	Laser Transmitter Feed-forward Linearization System for Radio over Fiber Application	PID1311903
&&\$	ICP2010-85	An Overview of Radio-over-fiber Network Technology	PID1313063
&&',	ICP2010-86	Preparation and Characterization of $\text{SiO}_2\text{-ZrO}_2\text{:Er}^{3+}\text{/Yb}^{3+}$ Planar Waveguides for Optical Amplifier	PID1307449
&&+	ICP2010-87	Arc-induced Long Period Fiber Gratings (LPFG) characterization: comparison between Cladding Etched and Non-Etched LPFG	PID1311873
& \$	ICP2010-88	Fabrication and Simulation of Multimode Symmetrical and Asymmetrical Y-Junction Optical Power Splitters	-
& )	ICP2010-90	Multiwavelength Brillouin Laser Based on Short Length of Highly Nonlinear Fiber.	PID1312891
& -	ICP2010-91	Quality of Transmission (QoT)-Aware Routing in All-Optical WDM Networks	PID1310703
& (	ICP2010-93	Two-Photon Photoluminescence induced Defects on InGaN crystal and Light Emitting Diodes	PID1298825



& ,	ICP2010-94	BPSK Intensity Modulated Free-space Optical Communications using Aperture Averaging	PID1309227
& ) '	ICP2010-95	Self-Mixing Interferometer Technique based on VCSEL under the Effect of Polarization Mode Switching	PID1309191
& ) +	ICP2010-96	Fiber Optic Methane and Strain Sensors for Mines	PID1318873
& 61	ICP2010-98	Simulation of 1.25 Gb/s Downstream Transmission Performance of GPON-FTTx	PID1307523
& **	ICP2010-99	Characterization of Four States Polarization Flipper for Single Photon Application	PID1309049
& * -	ICP2010-101	Various Doping Concentration Effect on Silicon-on-Insulator (SOI) Phase Modulator	PID1310489
&+&	ICP2010-102	Conductivity Studies of Variable ZnS:Mn Nanocrystals	-
&+)	ICP2010-103	Analytical And Simulation Of New Electro-Optic 3x3 Switch Using Ti:LiNbO <sub>3</sub> As a Wave Guide Medium	PID1297825
& \$	ICP2010-105	Analysis of Passive Compensation for Linear and Non Linear SOP on Standard Single Mode Optical Fiber	PID1309119
& ,'	ICP2010-106	Optimized Optical variables of 1.31μm GaInNAs/GaAs Quantum Well Semiconductor Laser	-
& , +	ICP2010-107	Tuning the Bandgap of Zn <sub>1-x</sub> Mn <sub>x</sub> O Thin Films Prepared by the Sol-gel Method	PID1325151
& - %	ICP2010-110	Optical Chemical Sensor using a Multi-Channel Directional Coupler with Slot Waveguides	PID1310503
& - *	ICP2010-111	Nanohole Structures for Efficiency Enhancement in Thin Film Photovoltaics	PID1311091
' \$%	ICP2010-112	Enhanced Optical Absorption in Thin Film Solar Cells by Surface Plasmons	PID1311361
' \$*	ICP2010-113	Experimental Investigation of Slow Light Generation Based on SBS in Optical Fibers	PID1312023
' %%	ICP2010-114	Improvement on Advanced Security Network Module on Real Telecommunication Infrastructure	PID1312043