

2006 Optics Valley of China International Symposium on Optoelectronics

**Wuhan, China
November 1-4, 2006**



IEEE Catalog Number:
ISBN:

06EX1626
1-4244-0816-4

Table of Contents

Waveguide Integrated Ge p-i-n Photodetectors on a Silicon-on-Insulator Platform.....	1
<i>J. F. Liu, D. Ahn, C. Y. Hong, D. Pan, S. Jongthammanurak, M. Beals, L. C. Kimerling, J. Michel</i>	
Quantum Dot Semiconductor Optical Amplifiers and Switches	5
<i>R.V. Penty, I.H. White, S. Liu, X. Hu, M.G. Thompson, R.L. Sellin, K.A. Williams, A.R. Kovsh</i>	
Nano-optoelectronics research in WNLO.....	8
<i>Zhiping Zhoua,b, Dingshan Gaoa, Yi Wang, Jinlin Chena, Junbo Fenga, Zhixuan Xiaa, Yao Chena</i>	
In-situ Opening Aligned Carbon Nanotubes and Applications for Device Assembly and Field Emission	12
<i>Lingbo Zhu, Dennis W. Hess, C. P. Wong</i>	
Radio-Frequency and Millimeter-Wave Photonic Techniques for Broadband Communications and Sensor Networks.....	19
<i>Jianping Yao, Xiupu Zhang, Raman Kashyap, Ke Wu</i>	
Theoretical and Experimental Investigations of Lightcraft/ Impulsar Related Problems	26
<i>V.V. Apollonov</i>	
Optical Buffering and Time Slot Interchanging Based on an Optical Crosspoint Switch Matrix	31
<i>Nan Chi, Dexiu Huang, Zhuoran Wang, Siyuan Yu</i>	
Unattended Ground Sensor System Based on Fiber Optic Disk Accelerometer	33
<i>Yongjie Wang, Fang Li, Hao Xiao, Yuliang Liu</i>	
40Gb/s Simultaneous Inverted and Non-inverted Wavelength Conversion Based on SOA Using Transient Cross Phase Modulation.....	37
<i>Jianji Dong, Xinliang Zhang, Songnian Fu, P. Shum, Dexiu Huang</i>	
40Gb/s All-optical NOR Gate Based on Semiconductor Optical Amplifier and Fiber Delay Interferometer.....	41
<i>Jing Xu, Xinliang Zhang, Deming Liu, Dexiu Huang</i>	
Sensitivity Analysis of Microring Resonator Based Biosensor: the Quality Factor Perspective	44
<i>Zhixuan Xiaa, Zhiping Zhoua</i>	
All-optical RZ to NRZ Format Conversion with Tunable Fiber Based Delay Interferometer	47
<i>Yu Yu, Xinliang Zhang, Dexiu Huang</i>	
Study of Coupled-Resonator-Induced Transparency in 3×3 Coupler Based Dual Microring Resonators.....	51
<i>Xiaobei Zhang, Dexiu Huang, Xinliang Zhang</i>	
Photonic Crystal Taper for Efficient Coupling and Smooth Mode Profile Conversion	54
<i>Jing Liua, Dingshan Gaoa, Zhiping Zhou</i>	
Tunable Wavelength Multicasting Using Pulsed Pumping Four-Wave Mixing in a Highly Nonlinear Fiber.....	57
<i>Jian Wang, Junqiang Sun, Qizhen Sun, Hui Cao</i>	
FDTD Simulation of Band Structure and Mode Distribution for Plasmonic Crystals.....	60
<i>Bin Zhanga, Yi Wang, Zhiping Zhou</i>	
Measurement of Gain Curves for Semiconductor	
Optical Amplifier Utilizing Hakki-Paoli Method With Wavelet Denoise and Deconvolution Process	63
<i>Lei Liu, Xinliang Zhang, Dexiu Huang</i>	
OFDM-ROF System and Performance Analysis of Signal Transmission.....	67
<i>Linghui RAO, Xiaoqiang SUN, Wei LI, Dexiu HUANG</i>	