

2016 IEEE Optoelectronics Global Conference (OGC 2016)

**Shenzhen, China
5-7 September 2016**



IEEE Catalog Number: CFP16D33-POD
ISBN: 978-1-5090-3327-0

**Copyright © 2016 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 publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP16D33-POD
ISBN (Print-On-Demand):	978-1-5090-3327-0
ISBN (Online):	978-1-5090-3326-3

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

Contents

1.	Development status and aberration overview of micro spectrometer with Czerny-Turner structure	1
	An Yan, Wang Zhenye, Zhu tao, Dong Keyan, Li Xinhang	
2.	A Review of Photonic Microwave Generation.....	4
	Bo Lin, Biwei Pan, Zheng Zheng, Ming Li, and Swee Chuan Tjin	
3.	Study on Macro Control Technology of Mobile Phone Imaging.....	7
	CHEN Jian-bo, CAO Peng, MU Da-zhong, LI Mu-ming, WANG Jing	
4.	1×4 optical splitters based on self-collimation ring resonators in an air-hole silicon photonic crystal	11
	Xiyao Chen, Guimin Lin, Ping Fu, Weijuan Chen, Yuanyuan Lin, Yishen Qiu, Hui Li	
5.	Recent progresses of advanced CAP modulation for short reach optical interconnections.....	15
	Jiangbing Du, Lin Sun, Wenjia Zhang, Lin Ma, and Zuyuan He	
6.	Cross-Layer Security Based on Optical CDMA and Algorithmic Cryptography.....	17
	Wenjun Li, Jianhua Ji, Guirong Zhang, Wenlin Zhang	
7.	Direct Detection of PAM4 Signals With Receiver-Side Digital Signal Processing for Bandwidth-Efficient Short-Reach Optical Transmissions	19
	Wanting Lv, Jianqiang Li, and Kun Xu	
8.	Study on the Response Speed of Fabry–Perot Interferometer Gas Pressure Fiber Sensor based on Photonic Crystal Fiber and Vernier Effect	22
	Zejin Lu, Yuzhu Jiao, Mingran Quan, Jiajun Tian, and Yong Yao	
9.	Fabrication of Long Period Fiber Gratings with CO2 Laser Fusion Splicers	25
	Wenxin Zheng	
10.		

Mid-infrared biosensing with tunable grapheme plasmons	29
Wu Tingting, Wei Lei	
11.	
Disaster Survivability in Elastic Optical Datacenter Networks.....	32
Rui Xu, Bin Chen, Mingjun Dai, Xiaohui Lin, Hui Wang	
12.	
Space-Division-Multiplexed Transmission of IEEE 802.11ac-compliant 3×3 WLAN Signals over 200-m Conventional Graded-Index Multimode Fiber	35
Yi Lei, Jianqiang Li, Yuting Fan, Dawei Yu, Songnian Fu, Feifei Yin, Yitang Dai, Kun Xu	
13.	
The Study of Protection Algorithms with Shared Risk Link Group (SRLG) Constraint	38
Pei Zhang, Yiqiang Hua	