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Micro/Nano Photonics and Fabrication

**Zhiping Zhou
Changhe Zhou
Pavel Cheben**
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The CID Number appears on each page of the manuscript. The complete citation is used on the first page, and an abbreviated version on subsequent pages.

Contents

v	<i>Authors</i>
vii	<i>Symposium Committee</i>
ix	<i>Conference Committee</i>
xi	<i>Introduction</i>
xiii	<i>Sponsors and Cooperative Organizations</i>

SILICON PHOTONICS DEVICES AND INTEGRATION

9624 02	Utilization of thermal effects for silicon photonics (Invited Paper) [9624-23]
9624 03	Focusing and imaging properties of diffractive optical elements with star-ring topological structure [9624-5]

PLASMONICS

9624 04	Planar metalens realizing subwavelength focusing [9624-17]
9624 05	High-sensitivity low-cost temperature sensor based on symmetrical metal-cladding optical waveguide [9624-47]

FABRICATION TECHNOLOGY AND ACTIVE PHOTONIC DEVICES

9624 06	Simulation characterization of CMUT with vented square membrane [9624-22]
---------	--

NANOPHOTONICS AND LIGHT MATTER INTERACTION

9624 07	Characteristic of high temperature structural long period grating fabricated by femtosecond laser [9624-24]
---------	--

LIGHT SOURCE AND SOLAR CELL

9624 08	Low-cost lithography for fabrication of one-dimensional diffraction gratings by using laser diodes [9624-38]
9624 09	Numerical modeling of shape and size dependent intermediate band quantum dot solar cell [9624-26]

POSTER SESSION

- 9624 0A **Polarized single-mode condition for SOI rib waveguide with large cross section** [9624-2]
- 9624 0B **Design and fabrication of sub-wavelength metal grating polarizer in visible broadband** [9624-12]
- 9624 0C **Freeform lens design for providing LED small angle illumination in underwater application** [9624-14]
- 9624 0D **Thermally tunable resonator using directly integrated metallic heater** [9624-25]
- 9624 0E **Physical characteristics and optical properties of PbS nanoclusters: DFT simulation and experimental study** [9624-33]
- 9624 0F **The fabrication of the holographic echelle gratings** [9624-39]
- 9624 0G **Investigation of phase mismatch in microstructure fiber with multiple zero-dispersion wavelengths** [9624-41]
- 9624 0H **Fabrication of screen printed optoelectronic CdS/CdTe device** [9624-43]
- 9624 0I **Analysis on morphological and structural features of graphene layers by using polarization indirect microscopic imaging system** [9624-44]

Authors

Numbers in the index correspond to the last two digits of the six-digit citation identifier (CID) article numbering system used in Proceedings of SPIE. The first four digits reflect the volume number. Base 36 numbering is employed for the last two digits and indicates the order of articles within the volume. Numbers start with 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B...0Z, followed by 10-1Z, 20-2Z, etc.

Bi, Xinying, 0G	Wang, Yuan, 06
Chen, Chen, 0C	Wen, Jianxiang, 0E
Chen, Jiabi, 05	Wu, Hao, 02
Chen, Ruobing, 0D	Wu, Jianhong, 0B, 0F
Chen, Sitao, 02	Xing, Jingwei, 0G
Dai, Daoxin, 02	Yang, Jianju, 0G
Deng, Qingzhong, 0D	Yu, Longhai, 02
Dong, Yanhua, 0E	Yuan, Dengpeng, 0A
Dong, Ying, 0A	Zeng, Zhoumo, 06
Du, Fei, 06	Zhang, Baojun, 0G
Gao, Fei, 0F	Zhang, Hui, 06
Gao, Kun, 0I	Zhang, Junyong, 03
Han, Ying, 0G	Zhang, Wen, 06
Hu, Jinbing, 05	Zhang, Xiaohui, 0C
Imran, Ali, 09, 0H	Zhang, Xudong, 0A
Ji, Qiang, 07	Zhang, Yanli, 03
Jiang, Jianliang, 09, 0H	Zhou, Guiyao, 0G
Jin, Shijiu, 06	Zhou, Qian, 08
Ke, Jie, 03	Zhou, Yang, 0B, 0F
Khan, M. Khalid, 0H	Zhou, Zhiping, 0D
Li, Tianjian, 0A	Zhu, Xiangwen, 08
Li, Xinbai, 0D	Zhuang, Songlin, 05
Li, Xinghui, 08	
Liang, Binming, 05	
Liu, Guoyan, 0I	
Liu, Quan, 0B, 0F	
Liu, Shujing, 07	
Liu, Xuefeng, 0I	
Liu, Yujin, 0A	
Luo, Mingyan, 07	
Luo, Xuexue, 05	
Michel, Jurgen, 0D	
Naseem, S., 0H	
Ni, Guoqiang, 0I	
Ni, Kai, 08	
Qi, Yuefeng, 0G	
Ruan, Ningjuan, 04	
Sabeur, Abdelkader, 09	
Sadaqat, Afifa, 0H	
Shang, Yana, 0E	
Sun, Meizhi, 03	
Sun, Qian, 04	
Sun, Xiaolan, 0E	
Tan, Yushan, 0A	
Wang, Huanhuan, 08	
Wang, Qiang, 04	
Wang, Shuming, 04	
Wang, Tingyun, 0E	
Wang, Wei, 0G	

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- 4 Nanophotonics and Light-matter Interaction
Tao Chu, Institute of Semiconductors (China)
- 5 Light Source and Solar Cell
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Introduction

The tremendous demand on high-density data communications, real time sensing/detection, and high-speed control/actuation has heated up the research and development in Micro/Nano Photonics, which studies the behavior of light on the micro/nanometer scale and deals with high bandwidth, high speed, and ultra-small optoelectronic components. We are glad to see this subject attracting an increasing amount of attention and interest, with many more summer schools, topical symposiums and conferences in an attempt to promote the study of Micro/Nano Photonics; as well as dedicated peer-reviewed journals such as Photonics Research furthering the frontier of this research field. The joint efforts of academia and industry combined forms the engine of the versatile photonics.

It was in this spirit that the Micro/Nano Photonics and Fabrication conference of OIT' 2015 was organized. The conference accepted over 25 papers from different countries and areas of the world focused on the design, fabrication, and application of micro/nanostructures, and they crossed many research disciplines including: silicon photonics integration, active nanomaterials, metamaterials, nanostructure device, and fabrication technology. We also invited renowned scholars to present their cutting-edge breakthroughs, covering fundamental science such as nonlinear conversion and plasmonic enhancement, and technological advancements involving Germanium platform in mid-infrared applications. These experts and contributors together made a great feast of intellect.

As the committee chairs, we would like to express our appreciation to: the committee members for their support, the presenters for devoting their precious time to write the intriguing articles, and the reviewers for their helpful comments. We are also grateful to the staff of SPIE for their efforts in publishing the volume of this Proceedings.

Zhiping Zhou
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