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*8th International Symposium on Advanced Optical
Manufacturing and Testing Technologies*

Design, Manufacturing, and Testing of Micro- and Nano-Optical Devices and Systems; and Smart Structures and Materials

**Xiangang Luo
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Min Gu**
Editors

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Contents

vii	<i>Authors</i>
ix	<i>Symposium Committee</i>
xi	<i>Introduction</i>
xiii	<i>Sponsors</i>

ORAL SESSION

9685 02	Optical design of microlens array for CMOS image sensors [9685-7]
9685 03	Fabrication of polymer-based multimode interference optical splitters by UV-based soft imprint lithography [9685-21]
9685 04	Analysis and amelioration about the cross-sensitivity of a high resolution MOEMS accelerometer based on diffraction grating [9685-2]
9685 05	Topography measurement of micro structure by modulation-based method [9685-135]
9685 06	Thickness measurement of transparent film by white-light interferometry [9685-136]
9685 07	A low radiation optical system with lens positioned inside of the infrared detector Dewar [9685-25]
9685 08	Three-dimensional profile measurement of pyramid micro-structure array: research on twice reflection of the dihedral of 90 degrees [9685-24]
9685 09	The effect of structural coefficient on stiffness and deformation of hydrostatic guideway [9685-8]
9685 0A	High-damping-performance magnetorheological material for passive or active vibration control [9685-102]
9685 0B	Self-deployable structure designed for space telescope for microsatellite application [9685-105]
9685 0C	Detection of load application onto an optical fiber through changes in speckle patterns in an output light spot [9685-101]
9685 0D	An ultrathin dual-band metamaterial absorber [9685-114]
9685 0E	Lasing in nano-grating with Fano resonance [9685-110]

POSTER SESSION

- 9685 OF **Broadband polarization beam splitter based on a tapered mismatched directional coupler** [9685-1]
- 9685 OG **Flexible chalcogenide glass microring resonator for mid-infrared emission** [9685-6]
- 9685 OH **The impact of fabrication errors of double-layer BOE on diffraction efficiency** [9685-9]
- 9685 OI **X-ray microscopy using reflection targets based on SEM with tungsten filament** [9685-5]
- 9685 OJ **Researches on stability of microfocus electron-impact x-ray source** [9685-13]
- 9685 OK **Design and numerical simulation of a pixelated full stokes micropolarizer array** [9685-14]
- 9685 OL **High precision locating control system based on VCM for Talbot lithography** [9685-20]
- 9685 OM **UV spectrum-integral Talbot lithography for amplitude periodic micro-grating fabrication** [9685-17]
- 9685 ON **Application of support vector machine and particle swarm optimization in micro near infrared spectrometer** [9685-10]
- 9685 OO **Polydimethylsiloxane as dielectric and hydrophobic material in electro-wetting liquid lens** [9685-30]
- 9685 OP **Diffraction element design for generating multi-channel structured light field** [9685-28]
- 9685 OQ **A new flexible hybrid mask for contact exposure and its fabrication** [9685-33]
- 9685 OR **Static characteristics design of hydrostatic guide-ways based on fluid-structure interactions** [9685-3]
- 9685 OS **A novel method of the splitting ratio measurement of waveguide coupler using laser beam profiler** [9685-29]
- 9685 OT **Positioning control system of three-dimensional wafer stage of lithography** [9685-23]
- 9685 OU **Optical design of a scalable imaging system with compact configuration and high fidelity** [9685-22]
- 9685 OV **Design and simulation of large field plate lithography lens** [9685-32]
- 9685 OW **Fabrication of the nanoimprint mold with deep-subwavelength structures** [9685-12]
- 9685 OX **Direct optical patterning of poly(dimethylsiloxane) microstructures for microfluidic chips** [9685-18]
- 9685 OY **Deformation analysis of optical flat surface with finite element method** [9685-26]
- 9685 OZ **RMB identification based on polarization parameters inversion imaging** [9685-4]

- 9685 10 **Novel design of focal length adjusting apparatus with long journey** [9685-15]
- 9685 11 **Applications research in ultrasonic testing of carbon fiber composite based on an optical fiber F-p sensor** [9685-108]
- 9685 12 **Automatic on-line detection system design research on internal defects of metal materials based on optical fiber F-P sensing technology** [9685-109]
- 9685 13 **Research on lightweight passive deployment mechanism for the secondary mirror in the deployable space telescope** [9685-106]
- 9685 15 **Theoretical study the surface-enhanced Raman scattering spectra of Thiophenol absorbed on Ag nanoparticles** [9685-112]
- 9685 16 **Humidity sensor base on the ZnO nanorods and fiber modal interferometer** [9685-113]
- 9685 17 **High-sensitivity refractive index sensor based on microfiber long period gratings with CO₂ laser line-by-line inscription** [9685-104]
- 9685 18 **Configurations of nuclei in Au-catalyzed Si nanowire growth: a first-principles study** [9685-103]

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.

Bai, Jian, 04	Li, Lijing, 0G
Bian, Liming, 0X	Liang, Yuxin, 03
Cao, A-Xiu, 0P, 0Q	Liao, Hongqiang, 0B
Cao, Zhigang, 16	Lin, Shuo, 0R
Caoshan, Wang, 12	Lin, Wumei, 0V
Chao, Ban, 12	Liu, Baodong, 0I
Chen, Daigao, 0F	Liu, Chengyou, 15
Chen, Xiaoshuang, 18	Liu, Guoyan, 0Z
Chen, Xinhua, 0U	Liu, Huilan, 0S
Chen, Ya-Bin, 0E	Liu, Jinrong, 0S
Chen, Yinghong, 0M	Liu, Jun-Biao, 0I, 0J
Chen, Yuheng, 0U	Liu, Junbo, 05, 06, 0M
Cheng, Yiguang, 05	Liu, Quan, 0W
Chong, Yaqin, 13	Liu, Taixiang, 0A
Chu, Mingzhang, 0I	Liu, Wen, 0F
Deng, Chao, 0V	Liu, Xin, 0Q
Deng, Qian, 0L, 0M	Liu, Xuefeng, 0Z
Deng, Qi-Ling, 0P, 0Q	Liu, Yunxiang, 0N
Deng, Qinyuan, 05, 06	Lou, Shuqi, 04
Deng, Zi-Lan, 0E	Lu, Qianbo, 04
Dong, Jian-Wen, 0E	Luo, Yuqing, 03
Duan, Junping, 0D, 0O	Ma, Yu-tian, 0I, 0J
Feng, Lishuang, 0S	Ma, Zebin, 0H
Fu, Pengqiang, 0Y	Ni, Guoqiang, 0Z
Fujioka, Yuki, 0C	Niu, Geng, 0I, 0J
Gao, Kun, 0Z	Ou, Wen, 07
Gao, Shaorui, 0X	Pang, Hui, 0P, 0Q
Ge, Cheng-liang, 10	Qiao, Zheng, 09
Gu, Yiyi, 03	Ren, Boyuan, 0Y
Han, Dandan, 04	Ren, Guorui, 13
Han, Li, 0I, 0J	Shan, Ning, 11, 12
Han, Xiuyou, 03	Shi, Li-Fang, 0P
Han, Yu, 15	Shi, Rui, 08
Hasegawa, Makoto, 0C	Shu, Minglei, 0N
Hu, Jingpei, 0K	Su, Xing, 0Y
Hu, Song, 05, 06, 0L, 0M, 0P, 0T	Sun, Mingjie, 0G
Hu, Yao, 08	Takeda, Ryo, 0C
Ji, Yiqun, 0U	Tang, Yan, 05, 0M
Jiang, Chengguo, 15	Tian, Peng, 0T
Jiao, Xufen, 04	Tung, Wing-Tai, 0X
Jing, Nan, 13	Wang, Bo, 09
Kang, Fuzeng, 0H	Wang, Changjiang, 0K
Lai, Liping, 02	Wang, Chinhua, 0K, 17
Lai, Zhifeng, 09	Wang, Hao, 0H
Li, Ang, 07	Wang, Jian, 16
Li, Chuang, 0B, 13	Wang, Jia-zhou, 0P, 0Q
Li, Fanxing, 0T	Wang, Kaiwei, 04
Li, Juan, 07	Wang, Lei, 0F
Li, Kang, 16	Wang, Liang, 0O

Wang, Liangliang, 0G
 Wang, Wanjun, 0D, 0O
 Wang, Yingrui, 07
 Wang, Yiwen, 0Y
 Wong, Dexter Siu-Hong, 0X
 Wu, Jianhong, 0W
 Wu, Yangong, 09
 Wu, Zhenlin, 03
 Xia, Liu, 12
 Xiao, Xi, 0F
 Xing, Tingwen, 0V
 Xiong, Jian, 07
 Xiong, Yuhong, 0N
 Xu, Ruji, 17
 Xu, Yangguang, 0A
 Yan, Hongwei, 0A
 Yan, Wei, 0T
 Yang, Fan, 0T
 Yang, Ke, 0A
 Yang, Qi, 0F
 Yao, Jingwei, 06, 0L
 Yao, Luchi, 18
 Yin, Bohua, 0I
 Yin, Chencheng, 16
 Yin, YueHong, 0R
 Yu, Benli, 16
 Yuan, Xiaodong, 0A
 Zhang, A. Ping, 0X
 Zhang, Binzhen, 0D, 0O
 Zhang, Dewei, 0Y
 Zhang, Guosheng, 16
 Zhang, Huan, 16
 Zhang, Longjiang, 0Y
 Zhang, Man, 0P, 0Q
 Zhang, Peng, 09
 Zhang, Rongzhu, 02
 Zhang, Wendong, 0D
 Zhang, Xinyu, 16
 Zhang, Yong, 0D
 Zhang, Yong, 15
 Zhang, Yu, 0S
 Zhao, Chao, 0B
 Zhao, Lixin, 0L, 0M
 Zhao, Mingshan, 03
 Zhao, Wei-xia, 0I, 0J
 Zhen, Zheng, 07
 Zhong, Peifeng, 13
 Zhou, Jiankang, 0U
 Zhou, Jun, 07
 Zhou, Nan, 0B
 Zhou, Shaolin, 0M
 Zhou, Xiaohao, 18
 Zhou, Yang, 0W
 Zhou, Yi, 05, 06
 Zhu, Xianchang, 0V
 Zhu, Xiaojun, 17

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Introduction

The 8th International Symposium on Advanced Optical Manufacturing and Testing Technology (AOMATT 2016) was held 26–29 April 2016 at the Suzhou International Conference Center, Suzhou, China. The symposium was opened in the morning of 26th April with a formal opening ceremony. The ceremony started with the introduction of VIP guests, symposium chairs, conference chairs, and plenary speakers. Professor Liwei Zhou AOMATT 2016 Symposium Chairman, Professor Bin Xu Vice President of Institute of Optics and Electronics (China), one of the sponsors of AOMATT 2016, and Professor Yuan Yinnan, Vice President of Soochow University (China) gave opening speeches to a packed auditorium.

Plenary sessions followed immediately after the conclusion of the opening ceremony. There were a total of eight plenary presentations: "Less is more: extreme optics with zero refractive index physics", by Dr. Eric Mazur, Balkanski Professor of Physics and Dean of Applied Physics at Harvard University (United States); "Large optical telescopes in the era of large wide-field survey", by Dr. David R. Silva, Director of United States National Optical Astronomy Observatory (United States); "The European Extremely Large Telescope (E-ELT) revolution is under construction", by Dr. Marc Cayrel, European Southern Observatory (ESO) Project Manager, E-ELT Optomechanics (Germany); "Ultra-precision lens fabrication via molding: advances and challenges", by Dr. Liangchi Zhang, Professorial Fellow of Australian, Head of the Laboratory for Precision and Nano Processing Technologies, The University of New South Wales (Australia); "Advancing ultra-precision machining to high performance", by Dr. Ing. Oltmann Riemer, Head of the Laboratory for Precision Machining, Universität of Bremen (Germany); "Micro/nano-optics for flexible functional devices: today and future", by Dr. Linsen Chen, Chief of National United Engineering Research Center of Digital Optical Imaging and Display, Soochow University (China); "New angles on angle metrology: approaching fundamental limits", by Dr. Ralf D. Geckeler, Head of Length and Angle Graduations Group, Physikalisch-Technische Bundesanstalt (Germany); and "Functional photonic nanostructures: from thin films and slits to catenaries", by Dr. Xiangang Luo, Director of State Key Laboratory of Optical Technologies for Nano-Fabrication and Micro-Engineering, Chinese Academy of Sciences (China).

More than 800 people attended the opening ceremony and full-day plenary sessions. More than 1,000 abstracts were submitted to AOMATT 2016. About 500 submissions were selected for oral and poster presentations after careful reviews by conference chairs and committee members. Oral papers were presented in eight parallel conference sessions 27 and 28 April. An all-symposium poster session was held in the afternoon of 28 April. Many papers highlighted cutting edge research and development in optical design, manufacturing, and testing. Authors and attendees had very productive discussions and exchanged ideas throughout the symposium.

The AOMATT 2016 organizing committee would like to express their sincere appreciation for the strong support of SPIE, technical co-sponsor and long-term partner of AOMATT. Dr. Andrew Brown, Senior Director of SPIE, sent a letter of congratulations to the symposium. In his letter, Dr. Brown thanked all symposium chairs, conference chairs, and committee members for their leadership, and all authors and attendee for their contributions to make AOMATT 2016 a success. Dr. Brown also stated: "The vision of AOMATT is closely aligned with SPIE's mission to promote optics and photonics around the world. SPIE sponsors and co-sponsors technical conferences around the world and contribute millions of dollars every year in support of education and outreach programs, such as scholarships, travel grants, and other educational programs."

Finally, we would like to express our sincere appreciation to COS—The Chinese Optical Society (China), and IOE—Institute of Optics and Electronics, Chinese Academy of Sciences (China), for sponsoring and supporting AOMATT 2016. We want to thank all authors and participants as well volunteers for their contributions to the symposium and sharing their research with colleagues around the world.

We look forward to seeing everyone at AOMATT 2018.

Li Yang
Secretary General, AOMATT 2016
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