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Front Matter: Volume 10256

, "Front Matter: Volume 10256," Proc. SPIE 10256, Second International Conference on Photonics and Optical Engineering, 1025601 (24 April 2017); doi: 10.1117/12.2276625

SPIE.

Event: Second International Conference on Photonics and Optical Engineering, 2016, Xi'an, China

PROCEEDINGS OF SPIE

Second International Conference on Photonics and Optical Engineering

Chunmin Zhang
Anand Asundi
Editors

14–17 October 2016
Xi'an, China

Organized by

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Sciences (China) • National Natural Science Foundation of China (China) • Shaanxi
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SPIE

Part One of Two Parts

Volume 10256

Proceedings of SPIE 0277-786X, V. 10256

SPIE is an international society advancing an interdisciplinary approach to the science and application of light.

Second International Conference on Photonics and Optical Engineering, edited by
Chunmin Zhang, Anand Asundi, Proc. of SPIE Vol. 10256, 1025601 · © 2017 SPIE
CCC code: 0277-786X/17/\$18 · doi: 10.1117/12.2276625

Proc. of SPIE Vol. 10256 1025601-1

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Please use the following format to cite material from these proceedings:

Author(s), "Title of Paper," in *Second International Conference on Photonics and Optical Engineering*, edited by Chunmin Zhang, Anand Asundi, Proceedings of SPIE Vol. 10256 (SPIE, Bellingham, WA, 2017) Seven-digit Article CID Number.

ISSN: 0277-786X

ISSN: 1996-756X (electronic)

ISBN: 9781510610132

ISBN: 9781510610149 (electronic)

Published by

SPIE

P.O. Box 10, Bellingham, Washington 98227-0010 USA

Telephone +1 360 676 3290 (Pacific Time) • Fax +1 360 647 1445

SPIE.org

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Introduction

Following the success of icPOE2014, the Second International Conference on Photonics and Optical Engineering (icPOE2016) was successfully hosted 14–17 October 2016, in Xi'an China.

The field of photonics and optical engineering is developing rapidly worldwide. Related technologies have been applied in both Space and Mars exploration, micro-nano devices and new materials development, biomedicine, quantum computers, and quantum communication. The "National Guideline on Medium and Long Term Program for Science and Technology Development (2006-2020)" of China, has multiple priority areas and great demands that mention photonics and optical engineering involving remote sensing, environmental monitoring, biomedical diagnosis, space exploration, astronomy, and other scientific areas.

At present, the world's largest radio telescope, FAST (Five-hundred-meter Aperture Spherical radio Telescope), will be put into use; the Chang'e IV lunar probe will also launch for exploration of the back of the moon; and a Mars exploration program has been formally established and its exploration satellite will be launched around 2020. These are a concrete embodiment of the rapid development of China's photonics and optical engineering achievements.

Indeed, there have been significant advances as well over the past years. There are an increasing number of photonics and optical engineering companies setting up or ramping up their manufacturing facilities here, and at the same time, some home grown companies are show-casing innovations and technologies. In order to cater to these developments, many universities and scientific research institutions in Xi'an, Shanghai, Tianjin, and other famous cities have established 'Photonics Research Centres'. These institutions have organized many national academic conferences for deeper academic exchanges and scientific interactions, as well as to strengthen the cultivation of excellent talent, and to reach out to the younger generation to highlight career and research options in photonics and optical engineering.

The International Conference on Photonics and Optical Engineering (icPOE) is one of the advanced academic forums in the world. The purpose of this conference is to build an international communication platform for optical research to aim at the opportunity of emerging markets and technology and to strengthen the advanced technology of optical application and measurement for innovation and development through a series of academic exchanges. This conference is significant in promoting communication of the latest achievements, enhancing mutual understanding of the status and trend of developments, and strengthening international cooperation in the optical field.

Leading scientists and researchers from all over the world submitted 170 papers, which were organized under seven topics:

1. Space optics
2. Spectroscopy and applications
3. Ultrafast optics
4. Photonic functional materials and integrated photonic device
5. Optical design and manufacturing technology
6. Optical measurement and inspection
7. Micro-nano manufacturing and testing.

We would like to express our heartfelt thanks to Shaanxi Optical Society, Shaanxi Provincial Physical Society, Optics and Photonics Society of Singapore (OPSS), Chinese Optical Society, SPIE, Xi'an Jiaotong University, Xi'an Institute of Optics and Precision Mechanics of Chinese Academy of Sciences, Xi'an Technological University, Xi'an Institute of Applied Optics, Centre for Optical and Laser Engineering of Nanyang Technological University (Singapore), Ministry of Education of China, Chinese Academy of Sciences, National Natural Science Foundation of China, Shaanxi Association for Science and Technology, other supporting organizations, and the organizing committee members, for their full support of this conference.

Our appreciation also goes to all the authors who spent a lot of time and effort in the preparation of their papers. Our deep thanks are directed to the students Rong Piao, Li Qiwei, Yan Tingyu, Liu Dongdong, Zhang Jirui, Li Yanfen, Gao Meng, Quan Naicheng, Chen Zeyu, Zhang Guoqing, Jiao Zuzu, and Wu Miao, and the volunteers Zhang Biyun, Zhang Fan, Wei Yang, Li Wentao, Zhang Hong, Zhao Siwei, and Yang Chen. The continuous help given especially by Yang Xiaoxu, Du Guangqing, Zhu Xueliang and She Jiangbo was the basis for making icPOE2016 successful.

Finally, our special thanks and appreciation goes to all of our friends and colleagues for sharing with us the positive results of photonics and optical engineering.

Chunmin Zhang
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