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Optoelectronic Devices and Integration VIII

Conference Chairs: Xuping Zhang, Nanjing Univ. (China); Baojun Li, Jianin Univ. (China); Changyuan Yu, The Hong Kong Polytechnic Univ. (Hong Kong, China); Xianliang Zhang, Wuhan Univ. (China); Gang-Ding Peng, Nanjing Univ. of Posts and Telecommunications (China); Xuejun Lu, Univ. of Massachusetts Lowell (United States); Akihisa Ohori, Hiroyuki Tsuda, Univ. of Posts and Telecommunications (China);

Conference Co-Chair: Daoxin Dai, Zhejiang Univ. (China)

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TUESDAY 22 OCTOBER

SESSION 1 ........................................... TUE 8:00 TO 10:10
Optoelectronic Devices and Integration I
Session Chairs: Daoxin Dai, Zhejiang Univ. (China); Jianwei Wang, Peking Univ. (China)

Silicon nanophotonics for computation, interconnects, and sensing (Invited Paper), Ray T. Chen, The Univ. of Texas at Austin (United States) ........................................... [11184-1]

High-density waveguide superlatives for optical interconnects and optical phased arrays (Invited Paper), Wei Jiang, Nanjing Univ. (China) ........................................... [11184-2]

Smart silicon photonic signal processor (Invited Paper), Jianji Dong, Huazhong Univ. of Science and Technology (China) ........................................... [11184-3]

Two-wavelength x three-mode hybrid multiplexer/demultiplexer based on photonic crystals, Liangxian Liu, Nanjing Univ. of Posts and Telecommunications (China) ........................................... [11184-4]

The design of integrated four-channel Mach-Zehnder multi/demultiplexer based on LNOI platform, Xia Liang, Wuhan National Lab. for Optoelectronics (China) ........................................... [11184-5]

SESSION 2 ........................................... TUE 10:40 TO 12:10
Optoelectronic Devices and Integration II
Session Chairs: Daoxin Dai, Zhejiang Univ. (China); Wei Jiang, Nanjing Univ. (China)

Quantum information processing with integrated photonic (Invited Paper), Jianwei Wang, Peking Univ. (China) ........................................... [11184-6]

Large-scale wavelength multi/demultiplexer in combination with a spatial grating and arrayed waveguide gratings, Akishka Ohoi, Hiyokui Tsuda, Keio Univ. (Japan) ........................................... [11184-7]

Comparison of fabrication tolerance of broadband silicon photonic directional couplers, Guoyang Jiang, Guangfan Tao, Xiangning Chen, Nanjing Univ. (China) ........................................... [11184-8]

Concave blaze grating with aberration-corrected freeform and variable line spacing for hyperspectral imaging applications, Cheng-Hao Ko, National Taiwan Univ. of Science and Technology (Taiwan) ........................................... [11184-9]

Lunch Break ........................................... TUE 12:10 to 13:30

POSTER SESSION ................................... TUE 13:00 TO 14:30
Conference attendees are invited to attend the poster session on Tuesday afternoon. Come view the posters, ask questions, and network with colleagues in your field. Authors of poster papers will be present to answer questions concerning their papers. Attendees are required to wear their conference registration badges to the poster session.

Poster Setup ................................... TUESDAY 10:00 AM – 1:00 PM
View poster presentation guidelines and set-up instructions at http://spie.org/PAPosterGuidelines

Close confinement of radially polarized light in graphene cylindrical hybrid plasmonic waveguide, Siyuan Li, Sicheng Zhang, Kang Li, Xinyu Li, Ju Xu, Nanjing Univ. of Posts and Telecommunications (China) ........................................... [11184-34]

The systematic analysis of epitaxial self-assembled GaN/AlN QDs in 5-K method by MOCVD, Zhiqiang Qi, Haocheng Sun, Weiliang Hu, Huazhong Institute of Electro-Optics (China) ........................................... [11184-35]

SESSION 3 ........................................... TUE 14:30 TO 17:10
Optoelectronic Devices and Integration III
Session Chairs: Baojun Li, Jianin Univ. (China); Wilson Rosa Almeida, Instituto Tecnologico de Aeronautica (Brazil)

Si-GST hybrid integration for non-volatile photonic devices (Invited Paper), Linjie Zhou, Hanyu Zhang, Hao Hu, Ningfeng Wang, Liangjun Lu, Jianping Chen, Shanghai Jiao Tong Univ. (China) ........................................... [11184-10]

High performance and CMOS-compatible photonic switches based on phase change materials (Invited Paper), Rajesh Kumar, Naad Ali, Shubham Singh, Indian Institute of Technology Roorkee (India) ........................................... [11184-11]

From optical space switching to optical mode switching (Invited Paper), Lin Yang, Institute of Semiconductors (China) ........................................... [11184-12]

Temperature-controlled Si ring modulators (Invited Paper), Woo-Young Choi, Yonsei Univ. (Korea, Republic of) ........................................... [11184-13]
Temperature-Controlled Si Ring Modulators

Woo-Young Choi¹, Min-Hyeong Kim¹, Minkyu Kim¹, Christian Mai², Stefan Lischke², and Lars Zimmermann²

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