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Editorial

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About the Cover

An optimized illusion-term silicon microring modulator fabricated on a 300 mm CMOS platform is presented by Wang et al. on page 1. The small-signal modulation bandwidth of 67 GHz and 112 Gb/s PAM4 optical modulation with only 1.2 V drive voltage, offering a compact and energy-efficient solution for high-speed data links. The cover image is a photograph of the microring and the optical mode simulated from Ansys Lumerical FDTD Solver. Cover artwork was illustrated by the authors. View the article.

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ARTICLES

A 400 Gbps Microring Modulator with 4.2 THz FSR Using Optimized Bezier Bend in a 300 mm CMOS Platform

Xin Wang, Fenghe Yang*, Yu Wang, Ruoyu Shen, Yue Zhou, Xiao Jia, Xiuxuan Wang, Fangchen Hu, Haowen Cai*, and Wei Chu*

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ABSTRACT

A Dispersive Image Scanning Microscope for Multi-color High-resolution Imaging

Lucrezia Bosi, Elli Tsiftsakis, Nicola Maiuri, Jasmina Sovic, Yichao Bai, Eric D Glowacki, Ivan Rashkovan, Yuval Ebenstein*, and Jonathan Jo*

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ABSTRACT

Broadband Light Beaming from a Nanoaperture Coupled to a Nanohelix

Vaga Kiselmanyan and Thierry Grosjean*

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ABSTRACT

A Computational WDM Receiver for Wavelength-Selectable Multichannel Visible Light Communication

Lei Wang, Ming Ma, Zihan Liao, Hao Lei, Jiangfeng Song, Jiang Yue, Hong Wang, and Zhibin Shao*

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ABSTRACT

Chip-Scale Perfect Vortex Beam Arrays within a 100 × 100 μm^2 Footprint for High-Capacity OAM Fiber Links

Guanchong Pan, Meng Xia*, Tian Sun, Xiaoli Zhou, Yinuo Wang, Yibo Dong*, and Dezi Wu

ACS Photonics 2026, 13, 1, 15-158 (2026) Article Recommendations

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Energy-Resolved Carrier Recombination beyond the ABC Model Revealed by Ultrafast Transient Absorption Spectroscopy

Kanchan Singh Rana, Tanushree Das, Soorya Ganguly, and Dipankar Saha*

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Multiple Hydrogen-Bonding-Mediated Co-Assembled Monolayers for Efficient and Stable Wide-Bandgap Perovskite Solar Cells

Haoyu Xia, Yuting Song, Shihang Yan, Ruihan Liu, Xiaohao Wang, Hai Fu, Noopsh Bhikpome, Hyun Ch*, and Xiao-Feng Wang*

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Single Color-Conversion Layer of Mixed Multicolor Ag–In–Ga–S Quantum Dots for White Light-Emitting Diodes

Yujin Lee, Woon Ha, Yoojee Hong, Moohhyung Go, Wanlay Mao, Yiluxue He, Liang He, Yuhui Dong*, and Yuanhong Zhu*

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Dan Wang*, Lei Lu, Wenhao Wang, Fan Feng, Hui Feng, Peiyuan Sun, Fan Chen, Bao Feng, Gao Jiang*, Shaoding Liu, Xuemao Guo, and Mingming Zhang

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Ideality Factor of the Radiative Recombination Current in GaN-Based Light-Emitting Diodes at Cryogenic Temperatures

Jinbo Xiang, Huaxing Jiang, Songlin Wu, Xuchang Hao, Jiang Yi-Shin, and Gang-Ou Shu*

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Frequency Up-conversion of Infrared Radiation in AlGaAs-on-Insulator Nonlocal Metasurface

Sanjay Kumar, Anna Fedotova, Martina Marozsa, Aristide Lemaitre, Frank Setzpfandt, Thomas Pertsch, and Giuseppe Leo*

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Xiaoqing Huang*, Jake Wolters, Igor Aharonovich, Lan Fu, Mehmet Kasemo, Chennupati Jagadish, and Hark Hoe Tan*

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Photonic Integrated Tunable and Narrow Linewidth Lasers Spanning the 2–3 μm Wavelength Range for Spectroscopic Sensing

Jincheng Wei, Zhengrui Liang, Shu Lin, Yu Qiao, Yihang Chen, Chengao Yang*, Ying Yu, Zhichuan Niu, Ruiqui Wang*, and Siyuan Yu*

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Yucheng Xu, Ling Yin, Yongping Wang*, and Jin Luo*

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Shuangshuo Liu, Yujie Dai, Haiying Ma, Sheng Gong*, and Shu Xu*

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Interfacial Memory States Govern the Predictable Design of Strongly Driven 2 μm Heterostructure Ultrafast Lasers

Ruan Li, Zhao Niu, Ke Wang, Chunting Wu*, Fei Chen*, Junjie Dai, Tongyu Dai*, and Yongji Yu*

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Petr Kuzmichev*, Rafi Lebovitch and Dorodnova, Stefanie Kraus, Peter Hommelhoff, and Martin Kozák*

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Yibo Dong, Zhaoyuan Zhu, Mingyi Chen, Qiming Zeng, Yidan Li, Ji Zi, Xiang Lei Lai, and Wei Shen*

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Antoine Courjaud, Franck Billard, Matthieu Gibert, Olivier Faucher, Edouard Hertz, and Pierre Béjot*

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