## Advanced Photonics

Volume 3 Number 2 April 2021

## Reviews

Light field on a chip: metasurface-based multicolor holograms	Dandan Wen, Jasper J. Cadusch, Jiajun Meng, and Kenneth B. Crozier	024001
Photonic circuits written by femtosecond laser in glass: improved fabrication and re- cent progress in photonic devices	Dezhi Tan, Zhuo Wang, Beibei Xu, and Jianrong Qiu	024002
Taking silicon photonics modulators to a higher performance level: state-of-the-art and a review of new technologies	Abdul Rahim, Artur Hermans, Benjamin Wohlfeil, Despoina Petousi, Bart Kuyken, Dries Van Thourhout, and Roel Baets	024003
Letters		
Far-field super-resolution imaging by non-linearly excited evanescent waves	Zhihao Zhou, Wei Liu, Jiajing He, Lei Chen, Xin Luo, Dongyi Shen, Jianjun Cao, Yaping Dan, Xianfeng Chen, and Wenjie Wan	025001

(Contents continued)

## On the Cover

The image on the cover for Advanced Photonics Volume 3 Issue 2 illustrates the concept of wavefront-selective Fano resonances supported by optical metasurfaces. The image depicts three identical metasurfaces, each illuminated by a localized source producing a diverging vortex beam originating at a different distance. The metasurface in the foreground shows reflection of a single color (orange), indicating that the surface interacts only with this wavelength and specific wavefront; in this case, the reflected beam is a phase-conjugated version of the source (a converging vortex beam). The other scenarios simply transmit, with no distortion in either the wavefront or the spectrum. These Fano metasurfaces are both spatially and spectrally selective, resonantly reflecting only specifically tailored waves.

## Research Articles

Glide symmetry for mode control and significant suppression of coupling in dual-strip SSPP transmission lines	Xiao Tian Yan, Wenxuan Tang, Jun Feng Liu, Meng Wang, Xin Xin Gao, and Tie Jun Cui	026001
Wavefront-selective Fano resonant metasurfaces [On the Cover]	Adam Overvig and Andrea Alù	026002
Time-domain terahertz optoacoustics: manipulable water sensing and dampening	Jiao Li, Yixin Yao, Liwen Jiang, Shuai Li, Zhihao Yi, Xieyu Chen, Zhen Tian, and Weili Zhang	026003
Multiscale label-free volumetric holographic histopathology of thick-tissue slides with subcellular resolution	Herve Hugonnet, Yeon Wook Kim, Moosung Lee, Seungwoo Shin, Ralph H. Hruban, Seung-Mo Hong, and YongKeun Park	026004