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The visualization demonstrates computational 3D shape sensing based on the FBG-ER method, achieving a mean error of 0.68 mm (0.8 %) under the experimental configuration with a spatial resolution of 5 mm, a sensing range of 20 cm, and a sensing speed of 1 kHz. (Article by D. Barrett et al., pg. 23.4 - 23.6).

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Polarization-encoded structured light for high-precision 3D surface profilometry
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Experimental investigation of scaling laws for the noise equivalent angle due to speckle and scintillation
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Spectral purity enhancement in cascaded cavities Raman fiber lasers using unidirectional ring-cavity pump-coupler from 4th-ordered stokes to pump, case
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Holography, Gratings, and Diffraction

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Reconfigurable parallel demultiplexing nanite with low loss and dynamic phase control for scalable multimode photonic computing
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Ganz resonance in the SiNi-CMOS metasurface
Ivan Ivanov, Ivan Ivanov, Ivan Ivanov, and Ivan Ivanov
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Three-dimensional particle localization techniques based on phase modulation and digital wave imaging
Ziyang Yu, Ziyang Yu, Ziyang Yu, Ziyang Yu, Ziyang Yu, and Ziyang Yu
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Full color multi-height holographic pancake display
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Metasurfaces and Flat Optics

Spin-decoupled metasurfaces for polarization-tailored holography
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Analytical solution of the radiative transfer equation of light radiance in a turbid slab with an inner-medium source under the P3-B approximation
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Low-energy ultrafast laser-induced GaN RF switches based on anti-reflection coatings
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Nonlinear and Ultrafast Optics

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Dual harmonic generation in a hybrid graphene-lithium niobate nonlinear metasurface
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