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Top Stories

Probe for Deep Neuronal Imaging Built Using Holographic Techniques

Using a multimode optical fiber as thin as a human hair, scientists at the Leibniz-Institute of Photonic Technology have observed at high resolution the neuronal structures inside deep brain areas of living mice. The researchers drew on holographic methods for controlling light.



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High-Performance Computers Could Advance Application of 3D Holography

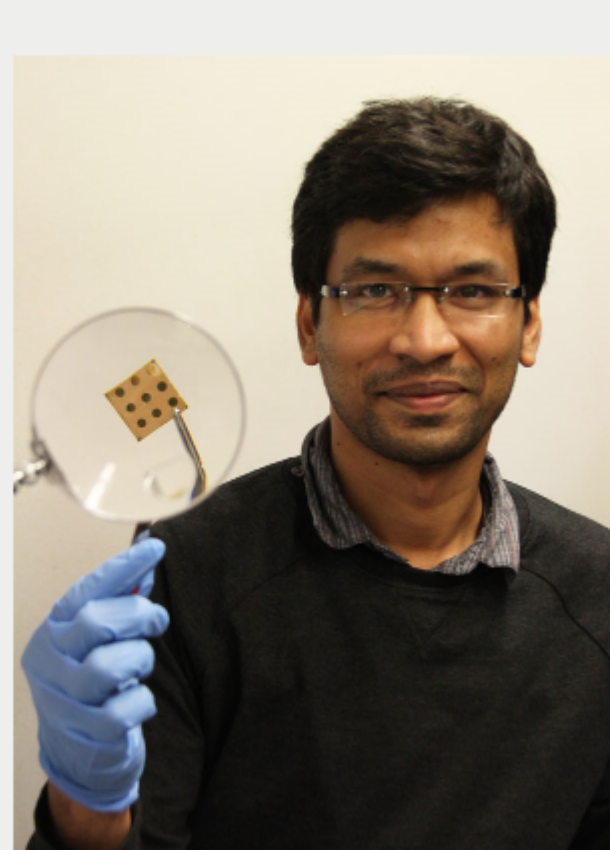
Researchers at Chiba University are developing a computer that can project high-quality 3D electroholography as a video — a project that they began about 25 years ago. The team has been working to increase the speed of the holographic projections by developing new high-performance hardware.



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Colloidal Quantum Dot, IR LEDs Are Highly Efficient

A composite material that is a strong light emitter as well as an efficient charge conductor — colloidal quantum dot (CQD) LEDs — has been developed by a team at the Institute of Photonic Sciences (ICFO). The nanocomposite system comprising IR CQDs is low-cost and can be integrated with CMOS, in addition to being highly efficient.



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Featured Products

Optical Fabrication

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Optical Fabrication is a new book for anyone working on or interested in the methods, materials and measurement techniques used in modern lens and optical component manufacturing. The

book will serve as an introduction or update, moving beyond methods and materials to design and complex modern applications.

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illuminated (bi) sensor technology, pco.edge 4.2 bi and pco.panda 4.2 bi come into the world of science. Both cameras stand out with their nearly perfect quantum efficiency up to 95%.

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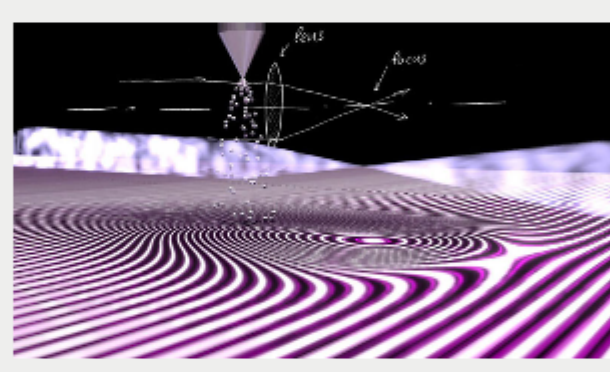
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More News

Gas-Jet Lens Supports Refractive Optics in XUV Domain

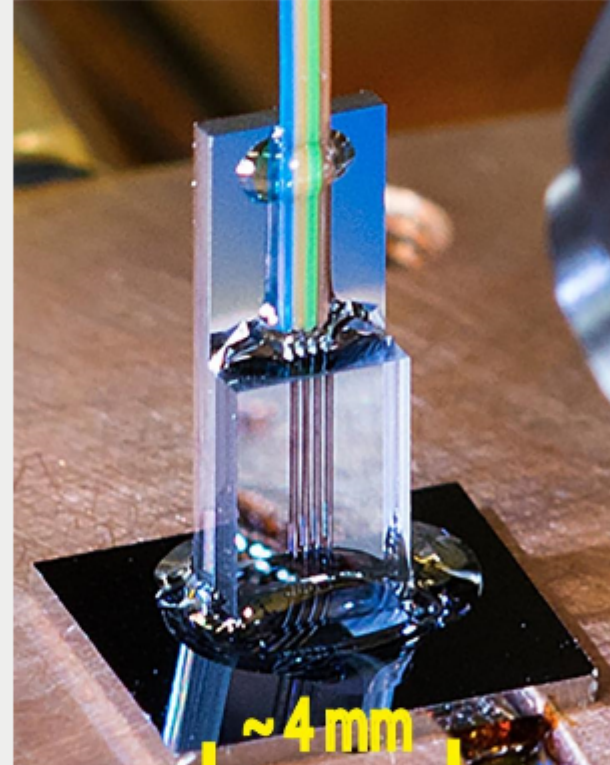
A new refractive lens developed by scientists at the Max Born Institute (MBI) uses a jet of atoms to focus extreme UV (XUV) beams. The atom jet is used in place of glass, which is nontransparent in the XUV spectral region.



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Photonic Sensors Show Resilience Against Large Doses of Radiation

Researchers at the National Institute of Standards and Technology (NIST) have identified a class of silicon photonic sensors that could be effective in high-radiation environments because of their ability to withstand high radiation doses.



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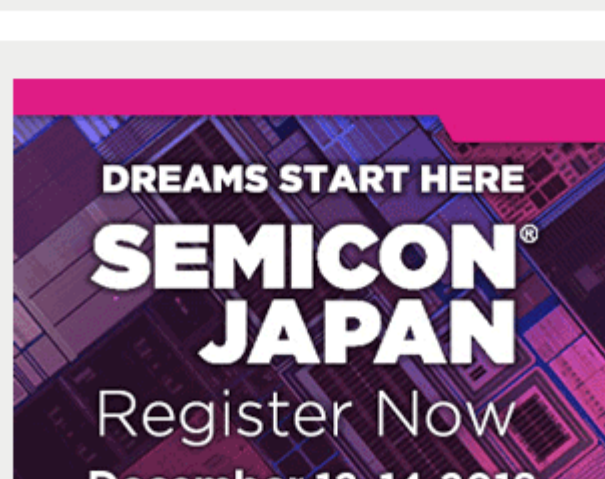
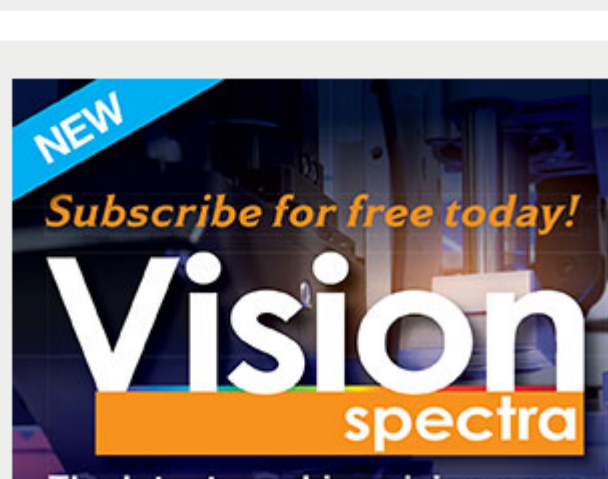
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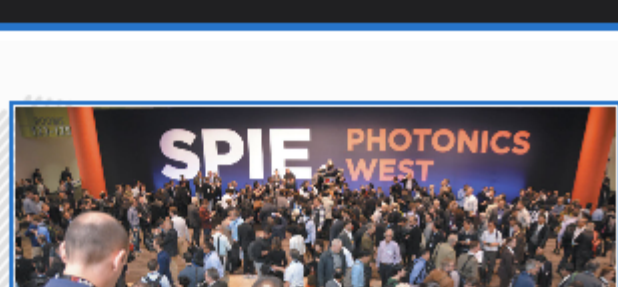


Industry Events

Photonics West 2019

February 2-7, 2019 - The Moscone Center - San Francisco United States

SPIE Photonics West is the world's largest photonics technologies event, consisting of three conferences - BIOS, LASE, and OPTO - and exhibitions. Photonics West 2019 will give you access to cutting-edge research through its 5,000-plus presentations and courses, its two world-class exhibitions featuring 1,300 companies, a robust industry program, and plenty of networking opportunities.



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