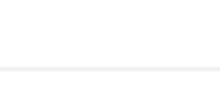


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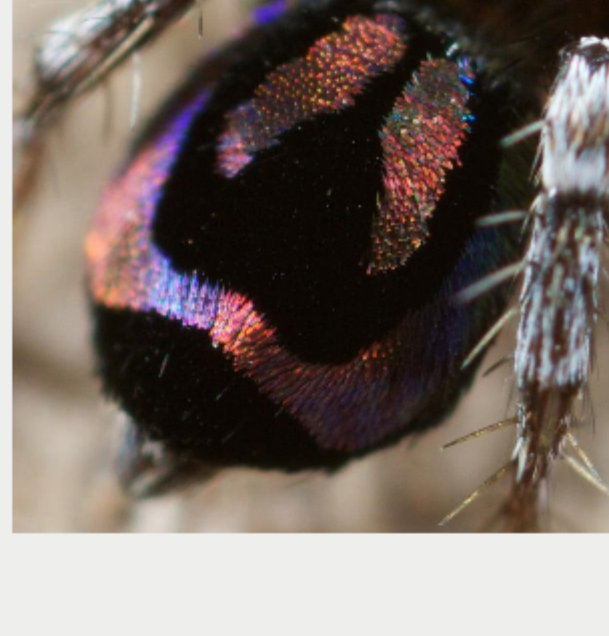
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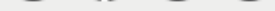
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Iridescent Spiders Provide Inspiration for Optics Design

The iridescent signal produced by miniature Australian peacock spiders during courtship displays could provide inspiration for the development of light-dispersive components that would be able to perform under irradiances and at scales not currently possible.

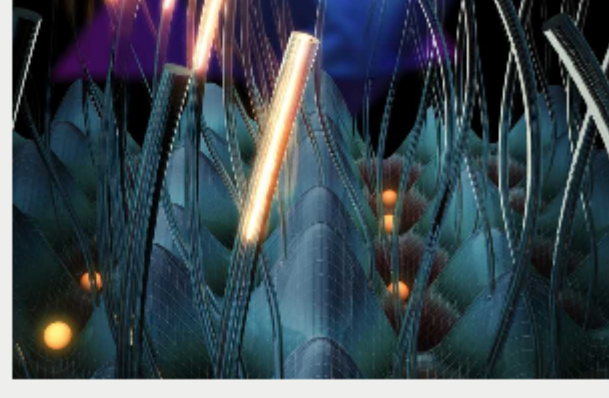


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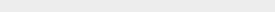


Optically Imaging the Fourth Dimension

A physical phenomenon in four spatial dimensions has been observed in two independent experiments: with light in waveguides (winding tubes) and by using cold atoms (orange spheres) in optical lattices. In both experiments, the quantum Hall effect was applied to four-dimensional systems.

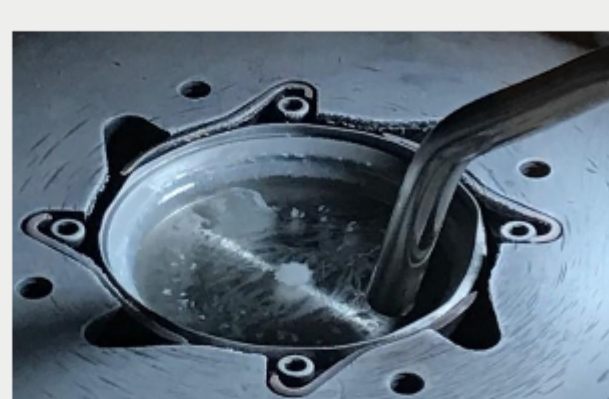


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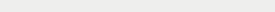


Technique Could Offer Gentler Approach to Making Hybrid Photovoltaic Materials

A thin-film deposition method for creating hybrid thin-film materials, applied to the fabrication of perovskite solar cells, could lead to a means to develop next-gen solar materials. The novel approach to manufacturing perovskites uses pulsed laser evaporation.



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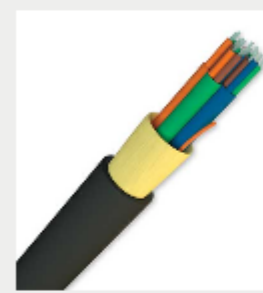
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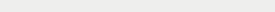
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Biomicroscopic System Could Lead to More Effective Cancer Treatment

A multimodal biomicroscope based on high-frequency ultrasound and optical spectroscopy could overcome the challenges of existing imaging systems for tumor analysis and provide physicians with the means to avoid unwanted outcomes such as cancer recurrence or metastasis to other organs.

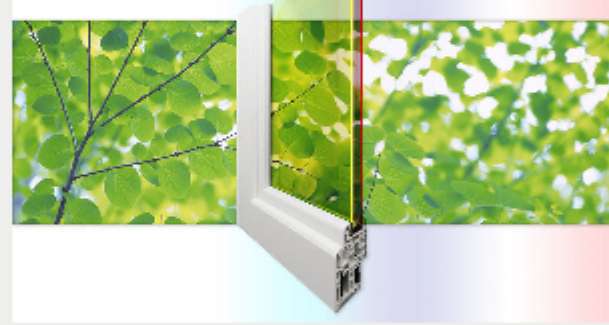


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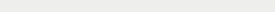


Engineered Quantum Dots Could Help Lower Solar Power Cost

A novel architecture that includes two different layers of low-cost colloidal quantum dots tuned to absorb different parts of the solar spectrum could be used to build double-pane solar windows that generate electricity more efficiently while providing insulation and shading.



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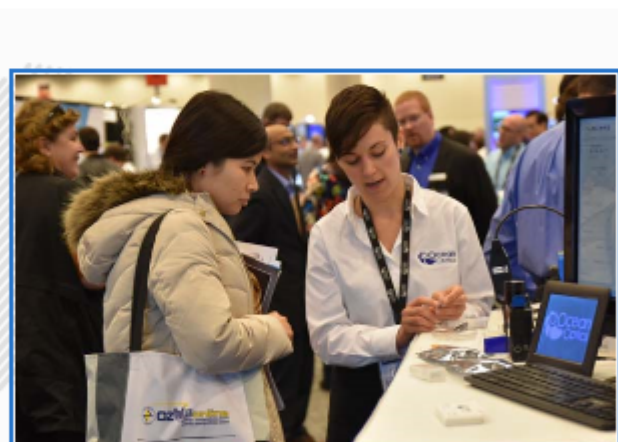
BiOS 2018

January 27-29, 2018 - The Moscone Center - San Francisco United States

Photonics Media Booth: 8735

SPIE BiOS 2018, part of SPIE Photonics West, encompasses clinical, translational and fundamental research and development in the field of biomedical optics and photonics. It provides a technical forum for reporting and learning about the latest research and development, as well as for launching new applications and technologies. This year BiOS will offer 2,400 papers and presentations on a range of topics that include biomedical optics, diagnostics and therapeutics, biophotonics, new imaging modalities, optical coherence tomography, neurophotonics, optogenetics, tissue optics and nano/biophotonics.

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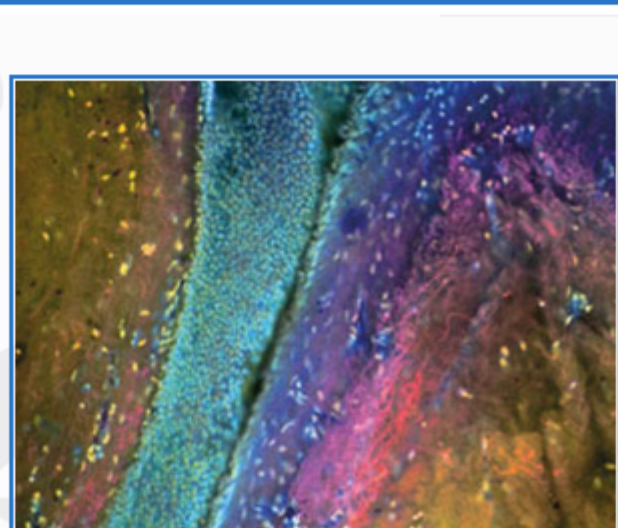
Webinars

The MUSE Microscope for Advancing Light Microscopy

Tue, Jan 16, 2018 1:00 PM - 2:00 PM EST

This webinar will introduce microscopy with UV surface excitation (MUSE), a novel fluorescence-based, slide-free optical imaging system that provides high-resolution images in minutes without causing damage to fragile tissue samples. Presenter Richard Levenson, M.D., FCAP, will discuss the development of the MUSE microscope and demonstrate its use.

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