

This Week In PHOTONICS

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STABILIZING THE LINE OF SIGHT

By Peter J. Kennedy and Rhonda L. Kennedy

A methodology and an example for executing a successful end-to-end line-of-sight pointing design.

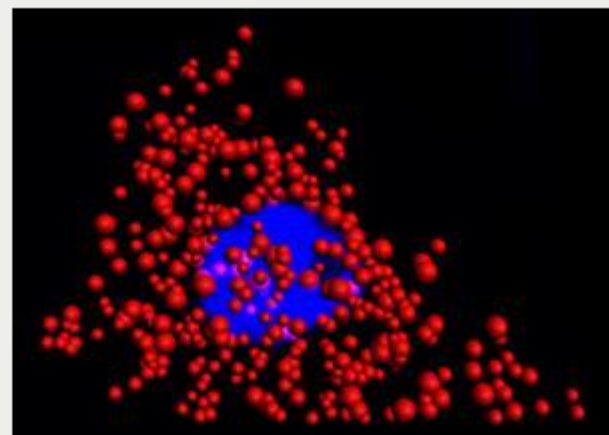
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Top Stories

Quantum Dots Replace Dyes to Stabilize Cell Imaging

A new molecular probe, based on the fluorescence in situ hybridization (FISH) technique, uses compact quantum dots (QDs) instead of fluorescent dyes to illuminate molecules and diseased cells. Developed by a team from the University of Illinois at Urbana-Champaign and the Mayo Clinic, the QDs provide greater stability and accuracy compared with dyes.



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Scientists Demonstrate Topologically Protected Biphoton States Needed for Quantum Logic Gates

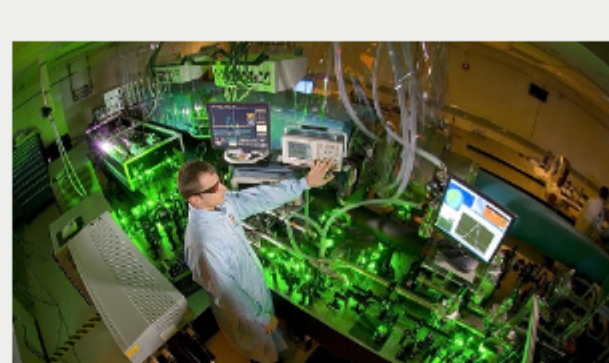
An optical circuit based on the principles of topology could provide protection for propagation of biphoton states, which will be needed for quantum computing. Researchers at the University of Sydney have experimentally demonstrated topological protection of biphoton states, and have shown that topological design could provide the robustness required for quantum optical circuitry.



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Texas Petawatt Laser to Be Used in Collaborative Network

The University of Texas at Austin will be a key player in LaserNetUS, a new national network of institutions operating high-intensity, ultrafast lasers. UT Austin houses one of the most powerful lasers in the country, the Texas Petawatt Laser. The university will receive \$1.2 million to fund its part of the network.



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Featured Products



LIGHT: Introduction to Optics and Photonics, Second Edition

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Offering a comprehensive treatment of the subject as well as key applications, and employing minimal math, LIGHT: Introduction to Optics and Photonics was written with readers in mind. This textbook is for beginning students of optics and photonics in high school, community college, and university STEM courses.

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pco.edge 4.2 bi: Back Illuminated sCMOS

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Innovations aren't always about having that one big new idea. Unique technology also comes from evolution, combining existing and new technology. When PCO's tried

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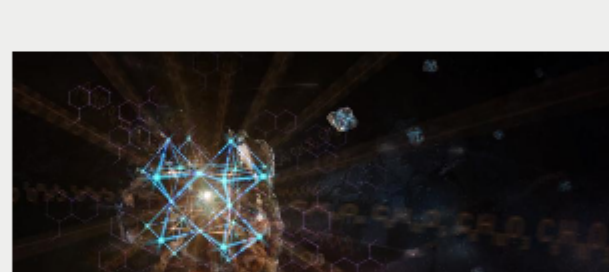
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More News

Perovskite-Based LEDs Achieve a New Efficiency Record

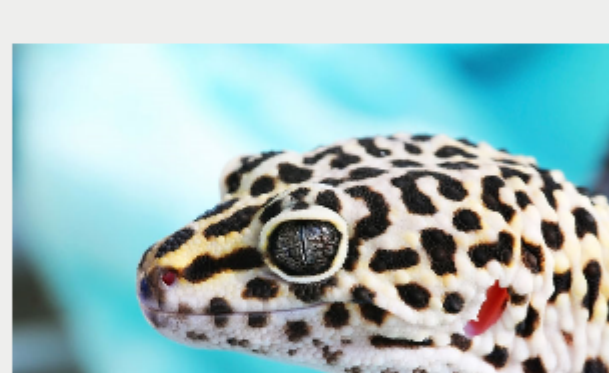
A new efficiency record has been set for perovskite-based LEDs. The researchers showed that by forming a composite layer of the perovskites together with a polymer, it was possible to achieve light-emission efficiencies close to the theoretical efficiency limit of thin-film OLEDs.



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Photodetector Mimics Directional Hearing in Small Animals

Researchers from Stanford University have drawn from nature — specifically, from the ear structure of the gecko — to devise a subwavelength photodetector that can measure both the intensity and incident angle of light. Such a system could be used by tiny cameras to detect where light is coming from, without the bulk of a large lens.



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Industry Events

ASCB/EMBO 2018

December 8-12, 2018 - San Diego Convention Center - San Diego United States

Photonics Media Booth: 218

The 2018 ASCB/EMBO Meeting is the primary forum for discovery and cutting-edge research in cell and molecular biology. Conference highlights will include a daylong meeting on stem cell biology as it pertains to cell biology research and tissue regeneration; workshops on the latest scientific techniques and methods; member-organized scientific subgroups; professional development and leadership training; major award lectures for top international scientists; and more.

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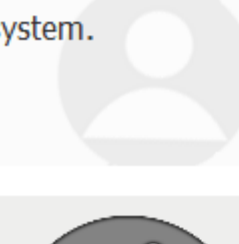
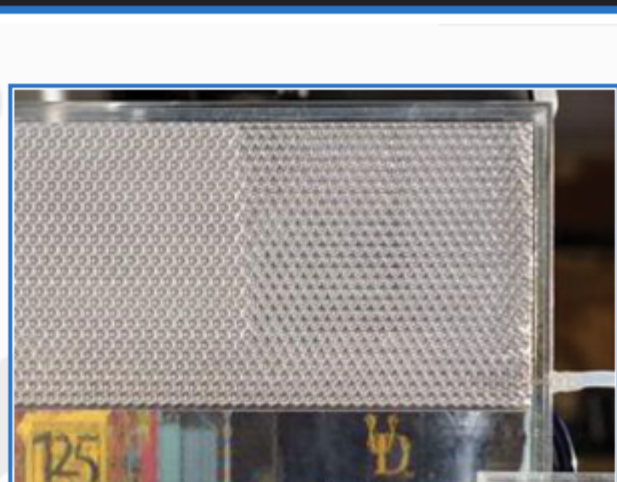
Webinars

Materials and Methods for Smart Glass, Smart Windows, and Building Shells

Wed, Dec 5, 2018 1:00 PM - 2:00 PM EST

This webinar will introduce a cost-efficient, high-performing smart glass system for windows, windshields, roof panes, and building envelopes. The system is based on a reflective structure that switches to transmissive when an index-matching fluid is introduced. You will learn about the technology used to develop and fabricate the smart glass system, including the use of optofluidics and 3D printing. The presenter, professor Keith Goossen, will also discuss future goals and potential applications for his smart heating, cooling and lighting system.

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