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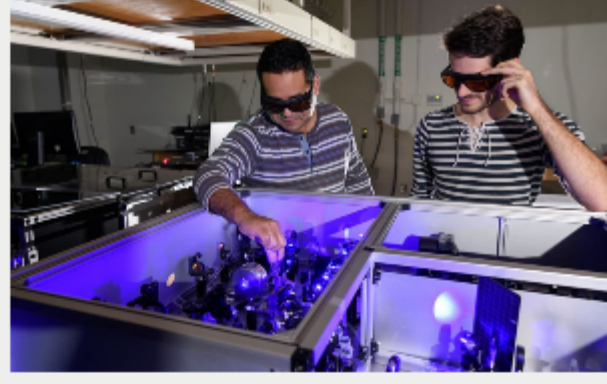


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Top Stories

Next-Gen Semi Materials Could Be a Boost for Photovoltaics, Lighting

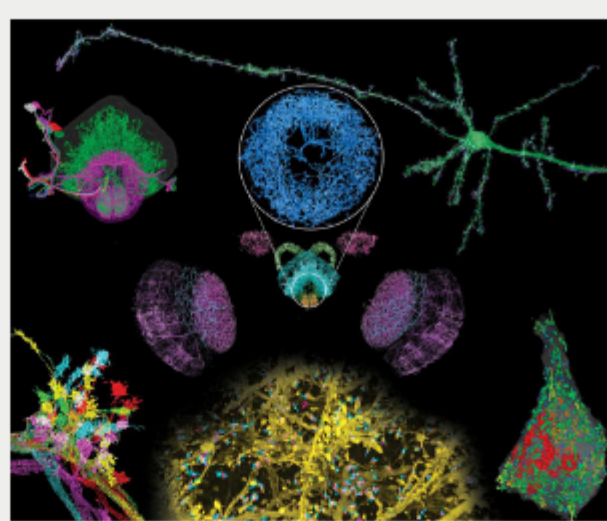
Next-generation semiconducting materials have the potential to transform lighting technology and photovoltaics, suggest researchers from Georgia Tech, in a study of the unusual physics behind hybrid semiconductors.



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Two Microscopy Techniques Combine for Nanoscale Brain-Wide Optical Imaging

Scientists from the Eric Betzig lab at Howard Hughes Medical Institute's Janelia Campus and the Ed Boyden Lab at MIT collaborated to develop an imaging technique, ExLLSM, that combines expansion microscopy (ExM) with lattice light-sheet microscopy (LLSM) for nanoscale imaging of fly and mouse neuronal circuits at the molecular level.



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ARL Explores Benefits of Immersive Technology for Soldiers

Researchers at the U.S. Army Research Laboratory (ARL), in collaboration with the University of Minnesota and the U.S. Army's Institute for Creative Technologies (ICT), have investigated methods for assessing the usefulness of virtual and augmented reality (VR and AR) systems for soldiers.



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Featured Products

Laser Welding Photonic Devices

Amada Miyachi America Inc.
AMADA MIYACHI's LF range of fiber lasers are efficient, low maintenance manufacturing tools that offer precise control and a range of beam qualities which can be tuned for each specific welding application. They are particularly well suited for small component welding, like photonic device welding and electrical connections.

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Near-Infrared Intensity Lens

Radiant Vision Systems, Test & Measurement



The Near-Infrared (NIR) Intensity Lens solution from Radiant Vision Systems is a compact camera/lens system capable of capturing the full angular distribution of a NIR-emitting light source in a single image. Compared to goniometric solutions for light source characterization, the NIR Intensity Lens captures complete...

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WEBINAR | Spectroscopic Reference Data for Hot Gases

DRS Daylight Solutions
There exists a marked lack of experimental absorption spectra for gaseous molecules at high temperatures and high pressures. Gases in these high-enthalpy thermodynamic states are present in a wide range of natural and man-made environments, such as cool stars, exoplanets, plasmas, explosions, flames, volcanoes, forest...

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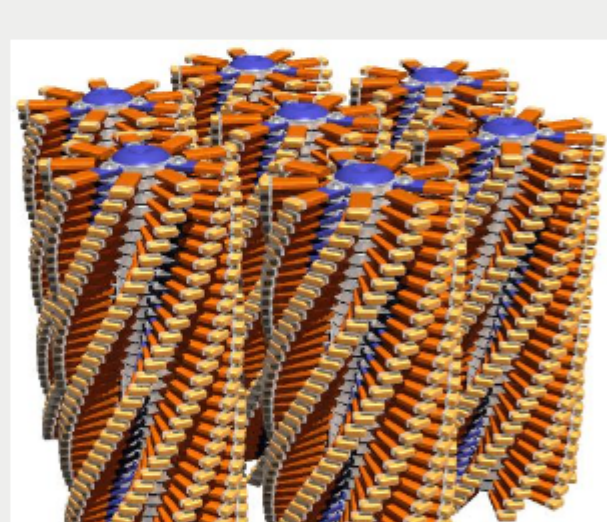
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More News

Engineers Perform Computational Logic with Optical and Electrical Signals

In work that could help advance the development of low-power, high-performance computer chips, researchers at the University of Tokyo and RIKEN have employed UV light and electric fields to perform logic operations with a chemical device.



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2019 Prism Awards Recognize Finalists

Retinal projection laser eyewear, the world's first cloud-based AI hand-held Raman spectrometer, and the first accurate stereo photogrammetry device that fits in the palm of a hand will all converge at the 2019 Prism Awards for Photonics Innovation.



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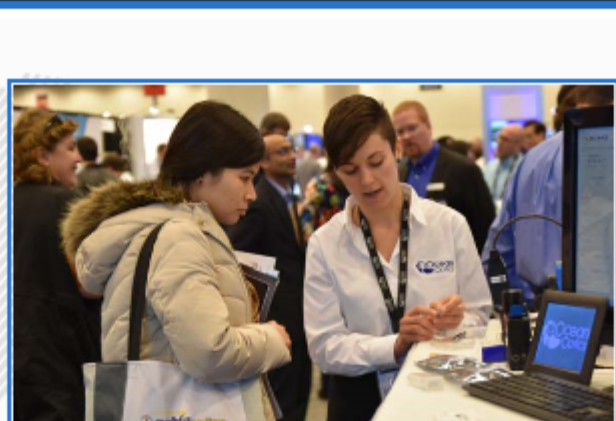
[Artificial Photosynthesis Could Help Limit Carbon Emissions](#) [Read Article](#)

Industry Events

BIOS 2019

February 2-3, 2019 - The Moscone Center - San Francisco US
Photonics Media Booth: 8444

BIOS is the world's largest international biomedical optics conference, encompassing clinical, translational, and fundamental research and development in the field of biomedical optics and photonics. It is part of SPIE Photonics West, the largest biophotonics, laser, optoelectronics, and industrial manufacturing event in North America, with more than 5,500 technical attendees from more than 50 countries. Special events will include hot topics presentations, the BIOS Expo, a focus on Translational and BRAIN research, and industry-leading working groups and panels.



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