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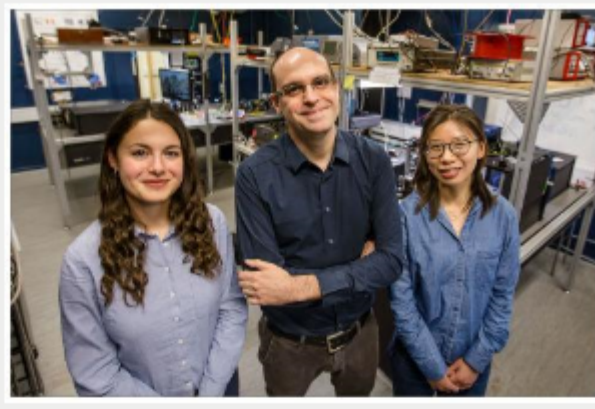
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Top Stories

Nanomechanical Router Could Open Way for Scalable Quantum Networks

Researchers have developed a nanocomponent, called a nanomechanical router, that emits quantum information carried by photons and routes the photons in different directions inside a photonic chip. The microscopic-size component could provide a way to scale up quantum technology.

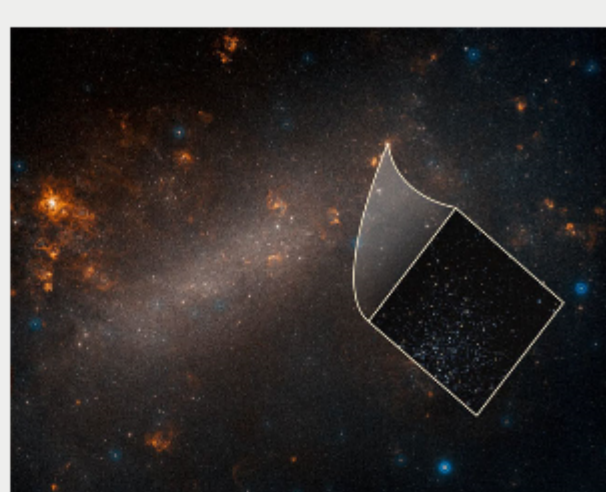


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Hubble as 'Point-and-Shoot' Camera Shows Universe Expanding Faster than Expected

New measurements from NASA's Hubble Space Telescope show that the universe is expanding about 9% faster than expected. A team led by professor Adam Riess at Johns Hopkins University used a new method, called DASH for Drift and Shift, for capturing quick images of the stars in Earth's neighboring galaxy.

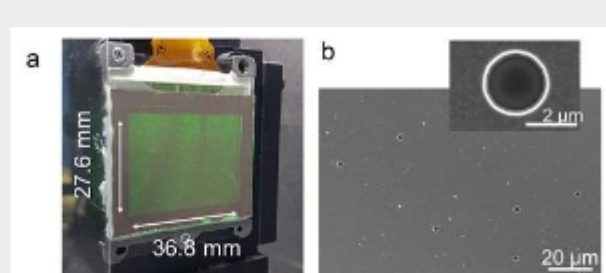


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Photon Sieve Used to Display Holographic Images with Wide Viewing Angle

Researchers at the Korea Advanced Institute of Science and Technology have designed an ultrathin display that can project dynamic, multicolored holographic images with a wide viewing angle. Key to the new approach is its use of an ultrahigh-capacity, nonperiodic photon sieve.



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Featured Products

Remote Sensing

Photonics Media

From space and the sky around us to firmly on the ground, remote sensing is providing an important view of our surroundings that can't be seen with our eyes alone. A variety of optical technologies are having an impact on applications as diverse as agriculture and defense, weather and climate, and are now part of the payload on satellites, planes and drones, and riding in and even guiding vehicles on the highway.

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Canon Surface Reflectance Analyzer

Canon U.S.A. Inc., Industrial Products Div.



Canon RA-532H, Surface Reflectance Analyzer (goniophotometer), is a compact, portable device capable of measuring 4 surface appearance conditions in a single pass: gloss, haze, image clarity (IC), and BRDF (Bidirectional Reflectance Distribution Function). Additionally, Canon has recently released its own new parameter, "Scattering" parameter, overcoming the shortage of both IC and DOI (Distinctiveness of Image) when evaluating matte and textured surfaces as well as orange peel surface.

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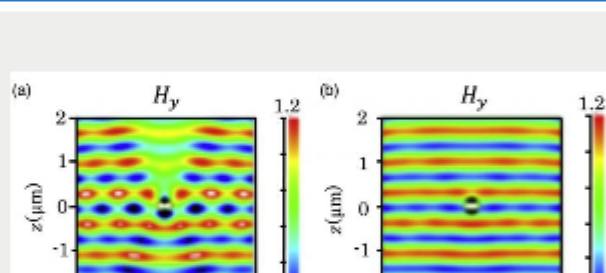
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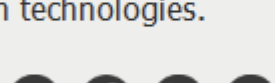
More News

Study Investigates Ways to Achieve Invisibility Without Using Metamaterials

Researchers at Tokyo Institute of Technology have discovered a way to make a submicron-size cylinder disappear without using any specialized coating. Their findings could enable invisibility of natural materials at optical frequency and eventually lead to a simpler way of enhancing optoelectronic devices, including sensing and communication technologies.

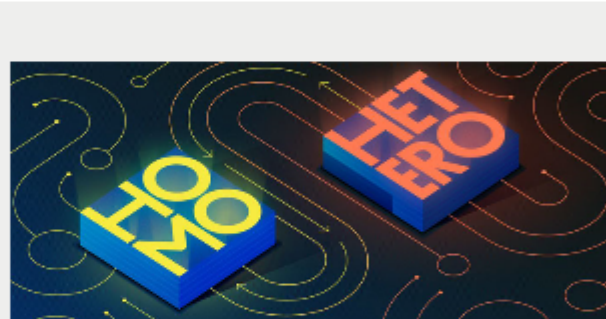


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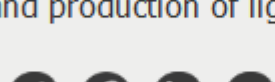


Semiconductor Homostructures Could Improve LED Design

Researchers from the Moscow Institute of Physics and Technology have found that superinjection, an effect previously believed to be possible only in semiconductor heterostructures, can also occur in homostructures — that is, in structures made of a single semiconductor material. Their discovery could lead to new approaches in the development and production of light sources.



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Industry Events

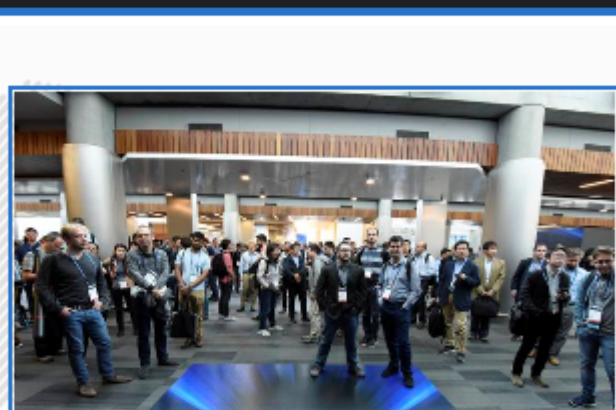
CLEO 2019

May 5-10, 2019 - San Jose McEnery Convention Center - San Jose United States

Photonics Media Booth: 2312

With comprehensive, peer-reviewed technical sessions and market-focused programming, CLEO is the world's premier international forum to learn about innovative advances, research, and new technologies from the laser science industry. From quantum computing to advanced imaging technologies to the search for new life and planets in the galaxy, CLEO brings together all aspects of electro-optic technologies. 200 companies exhibit at CLEO:EXPO, taking advantage of the annual industry-leading gathering to introduce new products and demonstrate cutting-edge innovations.

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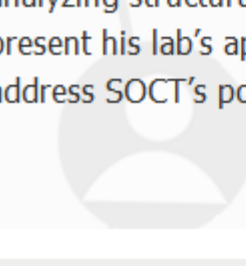
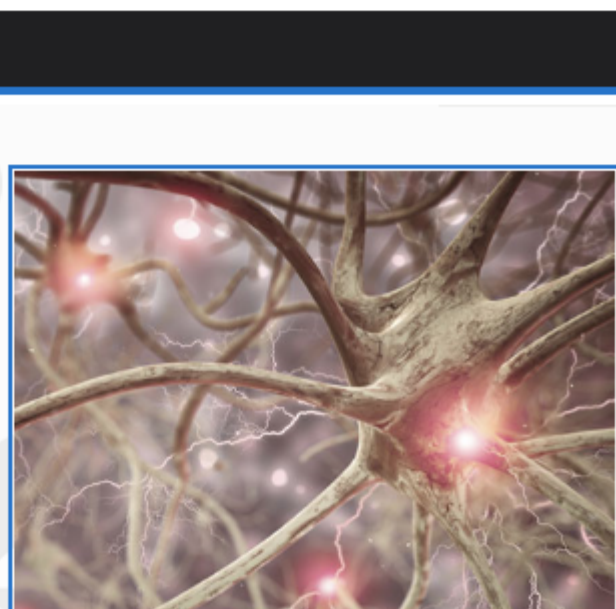
Webinars

Spectroscopic OCT: Seeing Under the Skin with Depth-Resolved Spectroscopy

Tue, May 14, 2019 1:00 PM - 2:00 PM EDT

This webinar, presented by Adam Wax, Ph.D., will introduce new methods for evaluating skin injury using spectroscopic measurements based on coherence imaging. These methods were developed by Wax and his group at the Biomedical Interferometry, Optics and Spectroscopy (BIOS) lab at Duke University. Wax will discuss spectroscopic OCT (SOCT), an extension of OCT technology for analyzing structural as well as spectroscopic information. He will present his lab's application of SOCT for burn injuries and also address SOCT's potential in the area of cancer detection.

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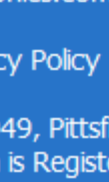
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