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PHOTONICS MEDIA



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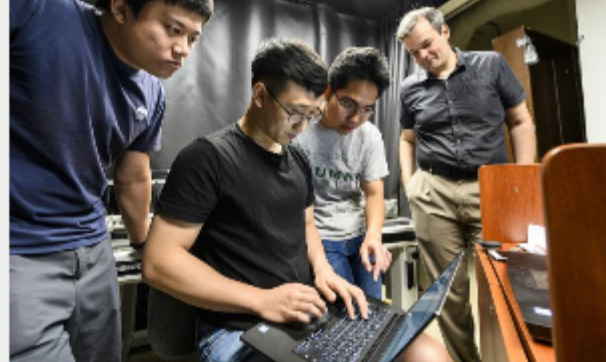


Introducing the UltraBright Spectrometer
No slit, just a giant aperture and a huge field of view.
Boom. Spectrum. Done.

Top Stories

Team Draws on Classical Optics for Its Solution to Non-Line-of-Sight Imaging

University of Wisconsin-Madison researchers have demonstrated non-line-of-sight (NLOS) imaging by using a method that applies the same math that is used to interpret images taken with conventional line-of-sight (LOS) imaging systems. The new method resolves the challenge of imaging a hidden scene by reformulating the NLOS imaging problem as a wave diffraction issue.



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Two-Photon Scope Captures Millisecond-Timescale Neuron Patterns In Vivo

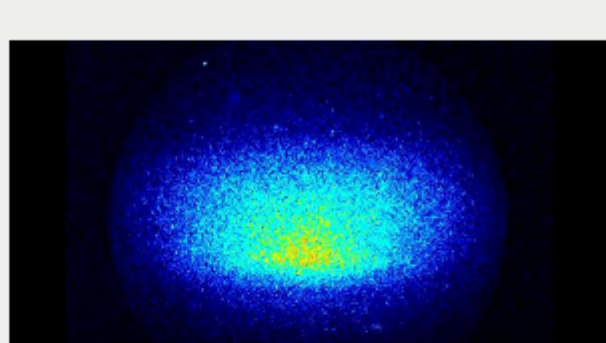
A new two-photon microscope from scientists at Howard Hughes Medical Institute's Janelia Research Campus can record footage of brain activity 15 times faster than once believed possible, the team said, revealing voltage changes and neurotransmitter release over large areas and monitoring hundreds of synapses simultaneously.



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Scientists Apply LIF Imaging to Explore Molecular Interactions in Atmosphere

A new technique uses laser sheets and laser-induced fluorescence (LIF) imaging to visualize and study gas-liquid interactions at the molecular level. Developed by researchers at Heriot-Watt University, it could be used to improve predictive atmospheric models used to study the climate.



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Featured Products



Flexible Sputtered Coatings

Deposition Sciences Inc. (DSI)
Roll-to-roll processes present a number of challenges when coating flexible surfaces, including unbalanced stress on each side of the substrate and limited line speed. These limitations affect the thickness and possibility of complex coatings. To address these challenges, DSI developed their batch coating technology, MicroDyn®. This unique process utilizes a proprietary magnetron sputtering chamber that was custom designed to address the challenges of high throughput coating.

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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 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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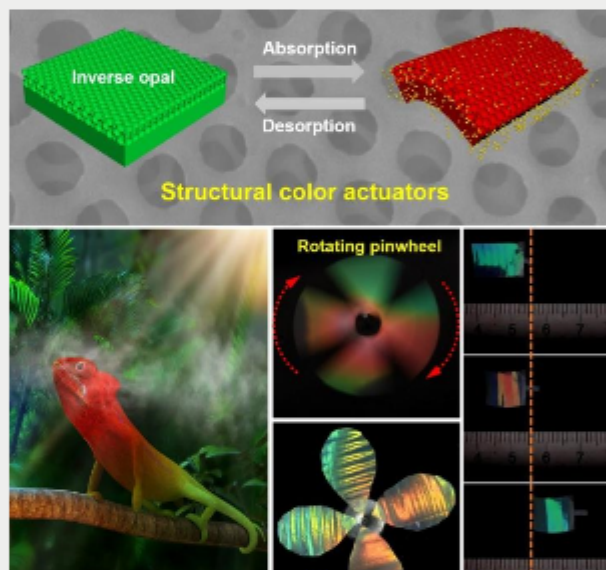
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More News

Structural Color Soft Robot Interacts with Environment

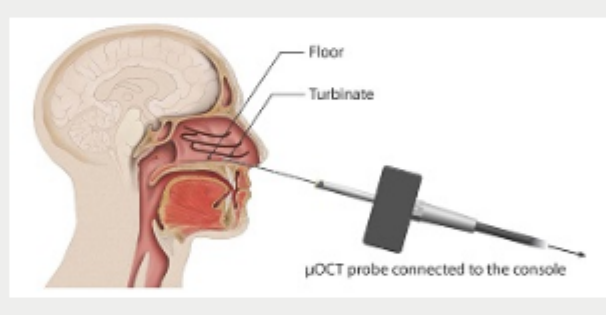
A soft robot with both color-changing and locomotion capabilities has been developed by a research team from the Chinese Academy of Sciences. Inspired by the color-changing capability of the chameleon, the structural color soft robot is able to sense modifications in the environment and exhibit vivid color alterations and programmable locomotion.



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Imaging Method Shows Promise for Evaluation of Cystic Fibrosis

An imaging method developed in part by researchers from Harvard Medical School and the University of Alabama at Birmingham is showing promise in the early diagnosis and evaluation of cystic fibrosis. The technique, based on optical coherence tomography, is able to provide high-resolution images of cilia lining the nasal pathways, as well as detailed features of the clearance of mucus.



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More Headlines

RoboSense Partners with ControlWorks to Provide Lidar Sensor Systems to Korean Automotive Industry [Read Article](#)

Esco Optics Opens Rochester Office [Read Article](#)

Imager Could Help Autonomous Vehicles See Around Corners [Read Article](#)

Smart Glasses Provide Customized Assistance Based on Worker and Task [Read Article](#)

IDEMIA Licenses ORNL Imaging Technology to ID Subjects in Moving Vehicles [Read Article](#)

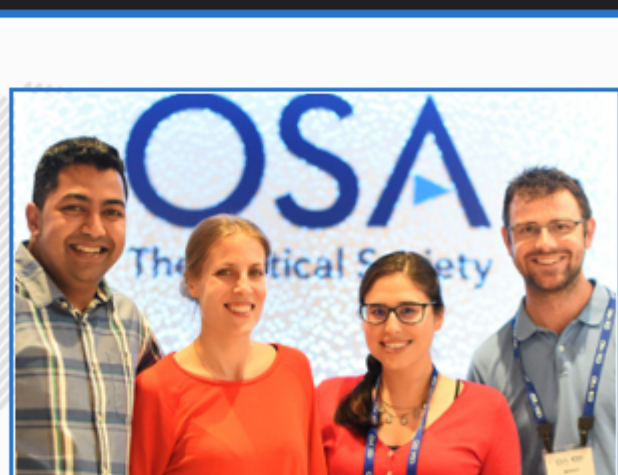
Industry Events

OSA Frontiers in Optics + Laser Science 2019

September 16-19, 2019 - Marriott Wardman Park - Washington United States
Photonics Media Booth: 107

The Optical Society (OSA), in partnership with the American Physical Society's Division of Laser Science (DLS) present OSA Frontiers in Optics + Laser Science APS/DLS. The conference, which also serves as the OSA Annual Meeting, unites communities from both societies for comprehensive and current research in more than 30 optics and photonics topics and across the disciplines of physics, biology, and chemistry. The Technical Conference is organized around four themes that leverage the intersection between science and applications: Autonomous Systems, Nanophotonics and Plasmonics, Quantum Technologies, and Virtual Reality and Augmented Vision. Each theme includes an all-invited program of panel discussions and is anchored by a 45-minute talk offered by a visionary speaker.

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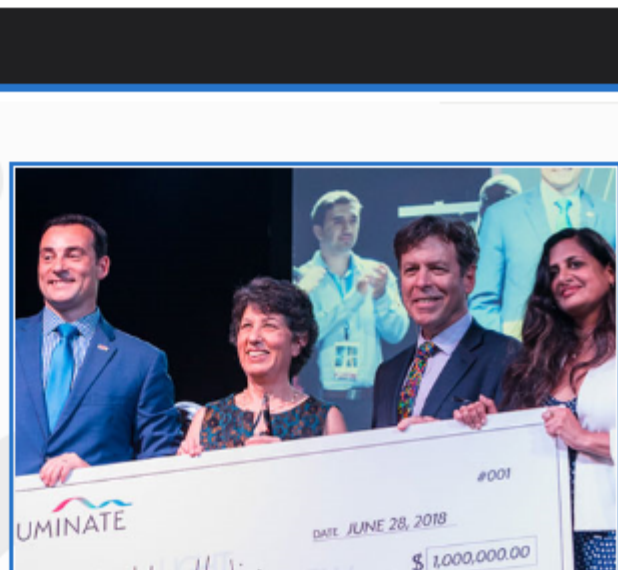
Webinars

Accelerating the Commercialization of New Optics, Photonics, and Imaging Technologies

Thu, Sep 5, 2019 1:00 PM - 2:00 PM EDT

Startups often can't find the funding or the right resources to bring emerging technologies to market. This webinar will take an in-depth look at how the Luminate Accelerator is addressing these challenges to help speed the commercialization of optics-, photonics-, and imaging-enabled applications. If you are an OPI startup, from early stage to Series A funding, or a scientist or engineer who has a technology that's moving from lab to market, this webinar could point to the ultimate resource. Presented by Luminate.

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Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, *Vision Spectra*, and *EuroPhotonics*). Please submit an informal 100-word abstract to editorial@Photonics.com, or use our [online submission form](#).

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