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Top Stories

New Camera Used to Measure Mass and Radius of Old Star

Scientists at the University of Sheffield have used HiPERCAM, a high-speed, multicolor camera that is capable of taking more than 1000 images per second, to measure both the mass and the radius of an old star (also called a cool subdwarf star) for the first time.



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Lumicell Technology Being Assessed for Possible Tumor Removal in First Surgery

Researchers at Massachusetts General Hospital (MGH) in Boston are conducting a feasibility study to determine the initial safety and efficacy of its Lumicell System for in vivo imaging of metastases in the hopes of removing all cancer during a first surgery.



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Researchers Use 3D Printer to Print Chalcogenide Glass

Researchers have successfully 3D-printed chalcogenide glass, a material used to make optical components that operate at mid-IR wavelengths. The ability to 3D print this glass could make it possible to manufacture complex glass components and optical fibers for new types of low-cost sensors, telecommunications components, and biomedical devices.



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Featured Products

Optical Fabrication

Photonics Media

Optical Fabrication is a new book for anyone working on or interested in the methods, materials and measurement techniques used in modern lens and optical component manufacturing. The book will serve as an introduction or update, moving beyond methods and materials to design and complex modern applications.

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Ultima 2Plus Multiphoton Imaging

Bruker Nano Surfaces

With new advances in field of view, sensitivity, wavelength, and sample accommodation, Bruker's Ultima 2Plus delivers the best

commercially available combination of flexibility, resolution, imaging depth, and speed, allowing users to perform simultaneous imaging, stimulation, and electrophysiological protocols with greater efficiency and effectivity.

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More News

New Phonon Laser Could Be Applied to Investigation of Quantum Physics

A phonon laser based on the optical tweezing technique invented by Nobel Prize recipient Arthur Ashkin was developed by researchers from Rochester Institute of Technology and the University of Rochester. The phonon laser can be used on single electrons, liquid droplets, and even on small biological organisms.



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Biophotonic Therapy Can Destroy Bacteria and Viruses in Organs Before Transplantation

A new technique for decontaminating organs before transplantation using UV and red light irradiation has been developed by researchers at the São Paulo Research Foundation (FAPESP) in partnership with the University of Toronto.



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More Headlines

[CPI, LightOx Collaborate on Light Therapy for Skin and Oral Cancers](#) [Read Article](#)

[Laser Processing Method Could Increase Efficiency in Optoelectronic Devices](#) [Read Article](#)

[AKHAN Awarded Patent for Diamond-Based IR Antireflective Coating](#) [Read Article](#)

[Scanning Tunneling Microscope Images Molecular Vibrations](#) [Read Article](#)

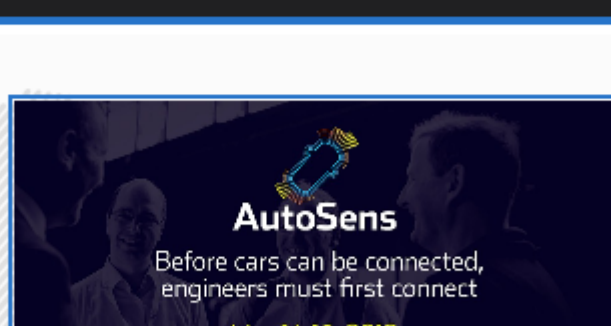
[Optical Sensor Based on Plasmonics Detects Hydrogen Gas Quickly](#) [Read Article](#)

Industry Events

AutoSens Detroit 2019

May 13-16, 2019 - Michigan Science Center - Detroit United States
Engineers involved in automotive sensing technology and signal processing will benefit from attending this event. It is the world's foremost meeting of automotive and electronic engineers working to design new and improve existing vehicle perception for the production vehicles of today and tomorrow. Built by engineers, for engineers, AutoSens features high-quality technical presentations, discussed in the context of the rapidly evolving ADAS and autonomous vehicle technology ecosystem. From sensors to software, systems to simulation, hardware, testing and services, there will be plenty to see over this three-day event.

[More Info](#)



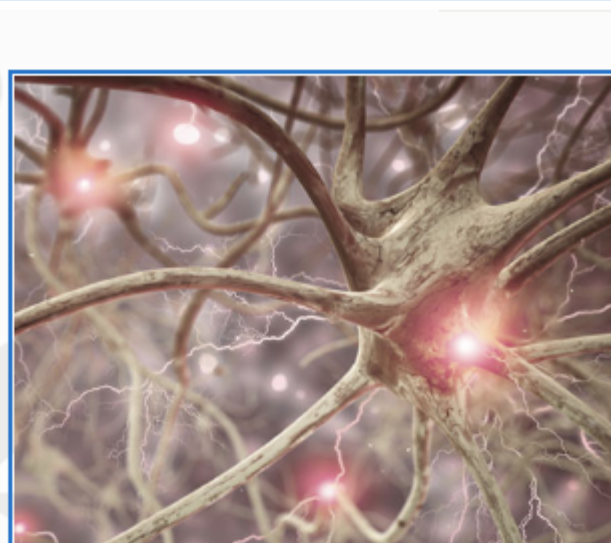
Webinars

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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