

This Week In PHOTONICS

PHOTONICS MEDIA



sponsor

LightMachinery
Excellence in Lasers and Optics

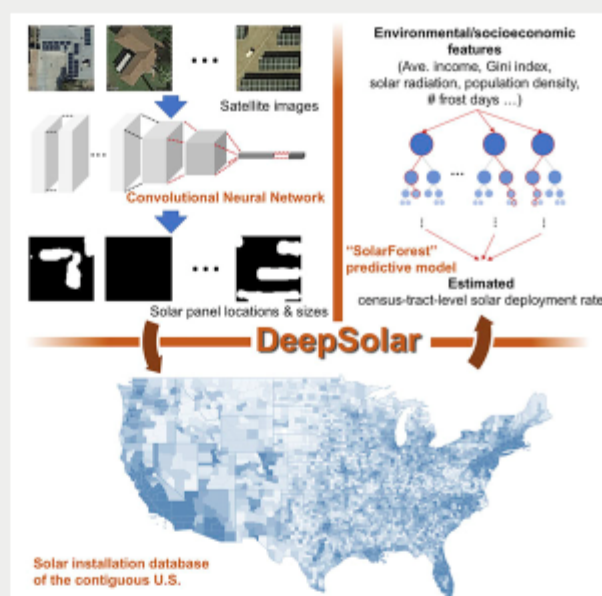


Optimized for Brillouin
HyperFine Spectrometer with
GreenKiller pump suppression

Top Stories

Machine Learning Identifies Nearly All US Solar Panels from 1 Billion Images

Stanford University scientists developed a machine learning program that analyzed more than 1 billion high-resolution satellite images and identified nearly every photovoltaic solar power installation in the contiguous 48 U.S. states.

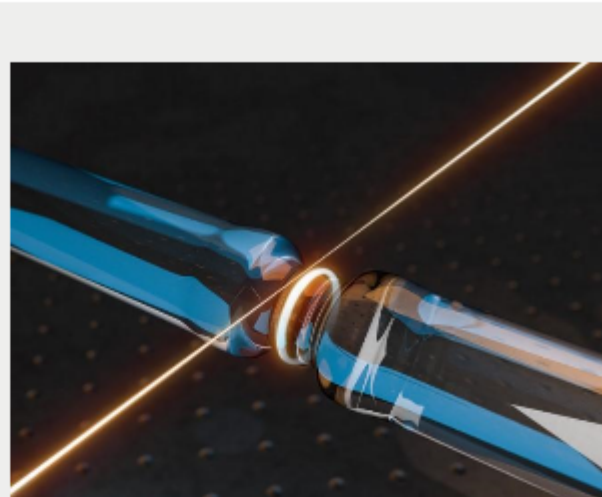


[Read Article](#)

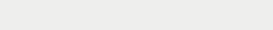


Researchers Achieve Strong Optomechanical Coupling of Light and Sound

A strong coupling regime between light and high-frequency acoustic sound waves was demonstrated by a team from Imperial College London, the University of Oxford, and the National Physical Laboratory. The team's findings could provide a possible approach to quantum control of light and sound.

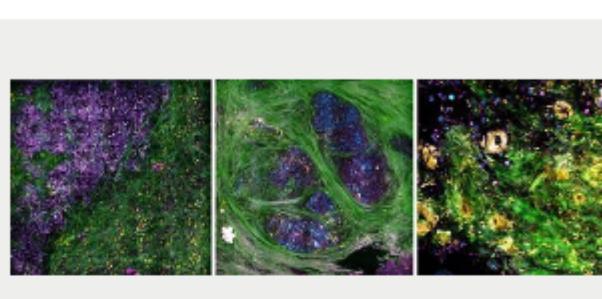


[Read Article](#)

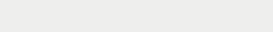


Label-Free System Images Molecular Features of Cancer Tissue in Real Time

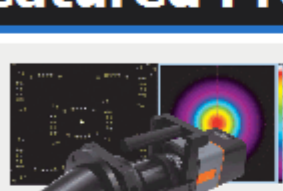
A team at the University of Illinois at Urbana-Champaign has visualized the tumor microenvironment of human breast tissue shortly after it was surgically removed from a patient in the operating room, using a new portable optical imaging system.



[Read Article](#)



Featured Products



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...

[Visit Website](#) [Request Info](#)



Online Catalog

OZ Optics Limited

OZ Optics' on-line catalog (shop.ozoptics.com) is the world's largest fiber optic online catalog.

Thousands of fiber optic products in stock. Stock items are shipped within 1 or 2 business days. Excess inventory as much as 75% off.

[Visit Website](#) [Request Info](#)



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...

[Visit Website](#) [Request Info](#)



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.

[Visit Website](#) [Request Info](#)

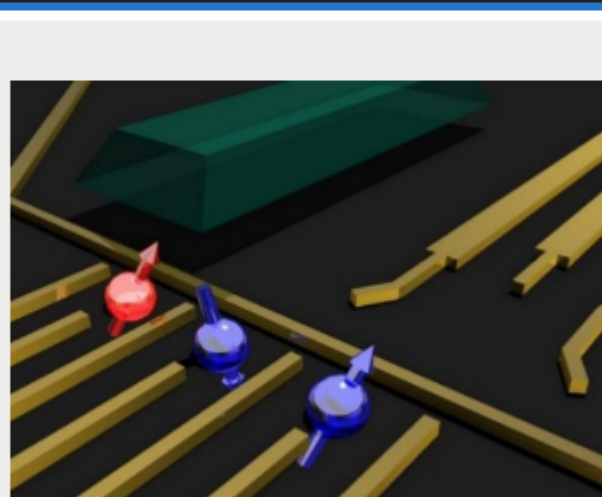
sponsors



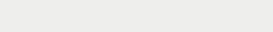
More News

System Uses QD Array to Tackle Scalability Issues in Quantum Computing

A research team led by the RIKEN Center for Emergent Matter Science (CEMS) has constructed a hybrid device for quantum computing, made from two different types of qubits, each with distinct advantages. The new system can be quickly initialized and read out, while simultaneously maintaining high control fidelity.

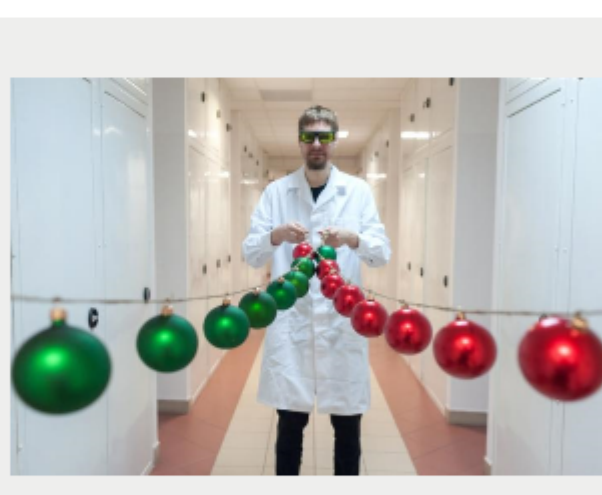


[Read Article](#)

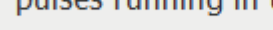


Open Source Software Can Model Interactions of Femtosecond Laser Pulses

Hussar software, developed by scientists from the Polish Academy of Sciences' Institute of Physical Chemistry and the University of Warsaw, can be used to perform the complex computations necessary to mathematically describe the interactions that can occur when beams of ultrashort laser pulses running in the same direction intersect with each other at an angle.



[Read Article](#)



More Headlines

Roy J. Glauber, Physicist Who Helped Lay the Foundations of Quantum Optics, Dies at 93 [Read Article](#)

Cisco Announces Its Intention to Acquire Luxtera Inc. [Read Article](#)

Microgears Made from Germanium Generate Twisted Light [Read Article](#)

Laser World of PHOTONICS CHINA 2019 [Read Article](#)

Laser Diodes in Sensor Detect Quality Differences in Olive Oils [Read Article](#)

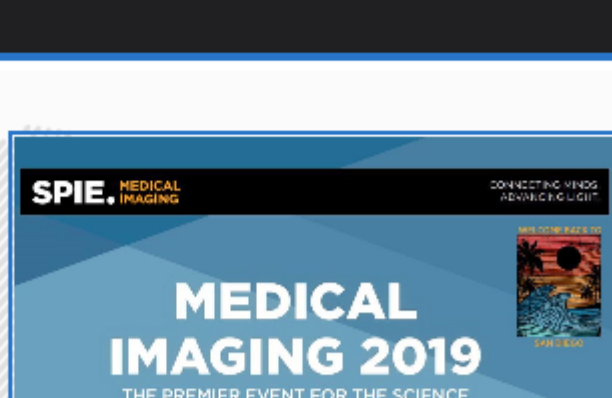
Industry Events

Medical Imaging 2019

February 16-21, 2019 - Town & Country Resort and Convention Center - San Diego United States

Participate in the conference that focuses on the latest innovations related to underlying fundamental scientific principles, technology developments, scientific evaluation, and clinical applications. 2019 Conference topics will include: Physics of Medical Imaging; Image Processing; Computer-Aided Diagnosis; Image-Guided Procedures, Robotic Interventions, and Modeling; Ultrasonic Imaging and Tomography; Imaging Informatics; and more. SPIE Medical Imaging will also offer focused, face-to-face instruction in medical imaging research and applications. Special events will provide an opportunity to learn, engage, and network with your colleagues.

[More Info](#)



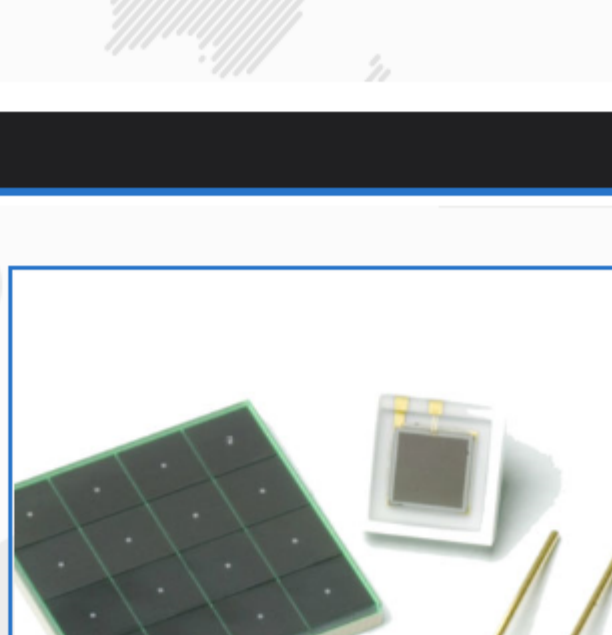
Webinars

SiPM and SPAD: Emerging Applications for Single-Photon Detection

Thu, Jan 17, 2019 2:00 PM - 3:00 PM EST

This webinar, presented by Hamamatsu Corporation, will provide a thorough overview of silicon photomultipliers (SiPMs) and single-photon avalanche photodiodes (SPADs) for low-light level photodetection. Compared to photomultiplier tubes (PMTs), SiPMs and SPADs are smaller, more durable, and more energy efficient. They also offer better immunity to magnetic fields and ambient light than PMTs. By attending this webinar, you will gain a better understanding of SiPM and SPAD technology, so you can determine whether it is the right choice for you.

[Register Now](#)



CALL FOR ARTICLES

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