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Top Stories

Deep Tissue Project Expected to Boost 3-Photon Microscopy

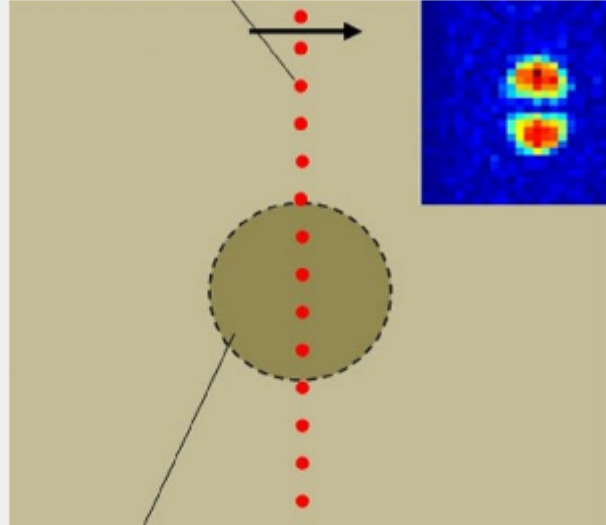
Heriot-Watt University is collaborating with laser specialist Chromacity Ltd. and microscope manufacturer Scientifica on the development of a laser designed for deep tissue analysis. Once completed, the laser could have applications in regenerative medicine, leukemia, and Alzheimer's disease.



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Sensor Detects Buried Objects from Moving Vehicle

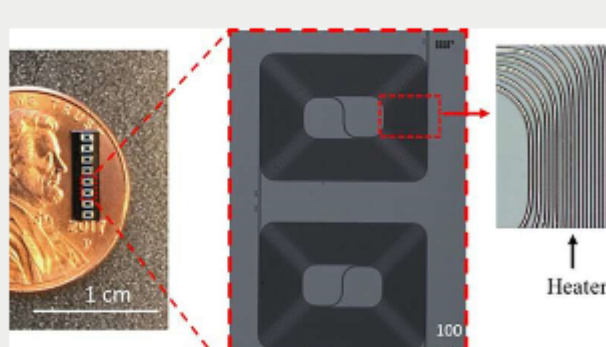
A new laser-based sensor, developed by a team at the University of Mississippi, can detect buried objects such as land mines even while the detector is in motion. The new device provides detection capabilities comparable to laser Doppler vibrometers (LDVs), but is less sensitive to motion, allowing it to be used aboard a moving vehicle.



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On-Chip Tunable Photonic Delay Line Could Help Miniaturize OCT Devices

Scientists at Columbia University have developed an on-chip, tunable photonic delay line to miniaturize imaging technology. Using their on-chip technology to map the back of the eye, the researchers produced high-contrast OCT images and extended the OCT imaging range by 0.6 mm.



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Featured Products

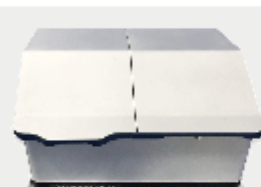


IDS: More Than 100 New U3V Cameras

IDS Imaging Development Systems GmbH

IDS Imaging Development Systems is expanding its USB3 Vision camera range by more than 100 models in the coming weeks. The company integrates the entire range of Sony sensors which are already available with GigE Vision interface. The USB3 Vision cameras will be available both as CP and SE family variants. For the latter, customers can choose between housing or board level versions with different lens holder options,...

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Vutara Super-Resolution Microscopy

Bruker Nano Surfaces

Based on single-molecule localization techniques (PALM, STORM, etc.), Vutara 352 enables quantitative imaging at the nanoscale. With SRX software and its Quantitative Localization Microscopy (QLM) analysis suite, Vutara 352 can provide visual and quantitative information from biological samples. Frame rates up to 3000 fps allow data to be collected from live samples and perform time based measurements.

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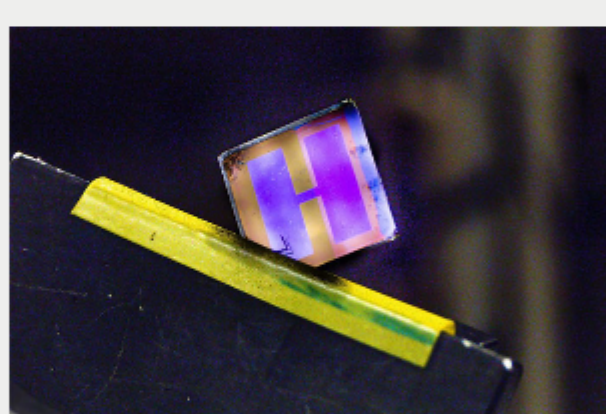
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High-Performance Organic Photovoltaic Cells for Indoor Use

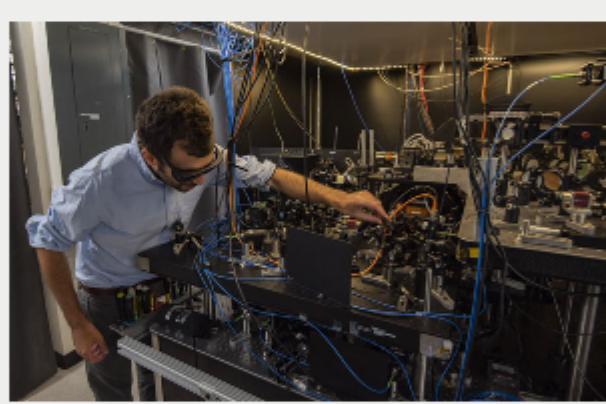
Scientists from Linköping University, the Chinese Academy of Sciences, and the University of Science and Technology Beijing have developed organic solar cells that can convert ambient indoor light to electricity. Although the power produced by the solar cells is low, the researchers believe it could be enough power to support the many products that the Internet of Things will bring online.



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Optical Clock Uses Laser Tweezers to Manipulate Atoms

JILA physicists have demonstrated a new atomic clock design that uses laser tweezers to trap, control, and isolate atoms. The tweezers are created by an IR laser beam aimed through a microscope.



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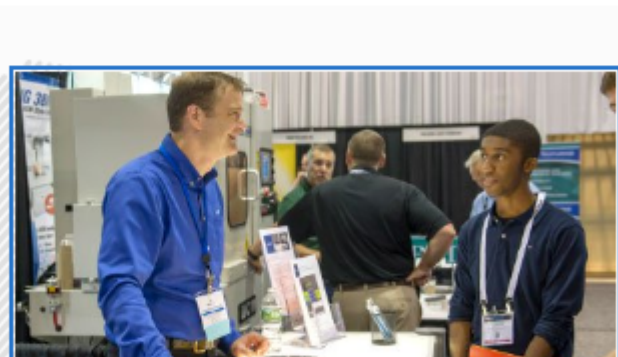
[Using Green Light to Synthesize Organic Compounds](#) [Read Article](#)

Industry Events

SPIE Optifab 2019

October 14-17, 2019 - Rochester Riverside Convention Center - Rochester United States
Photonics Media Booth: 1115

Optifab, organized jointly by SPIE and APOMA, is the largest optical manufacturing conference and exhibition held in North America. Optifab focuses on classical and advanced optical manufacturing technologies and gives conference attendees an opportunity to interact with worldwide experts in the field of optical fabrication. With over 180 exhibitors and numerous opportunities for training and education, Optifab will give you insight into the optical fabrication market, help you improve your processes, and assist you in making key business connections.



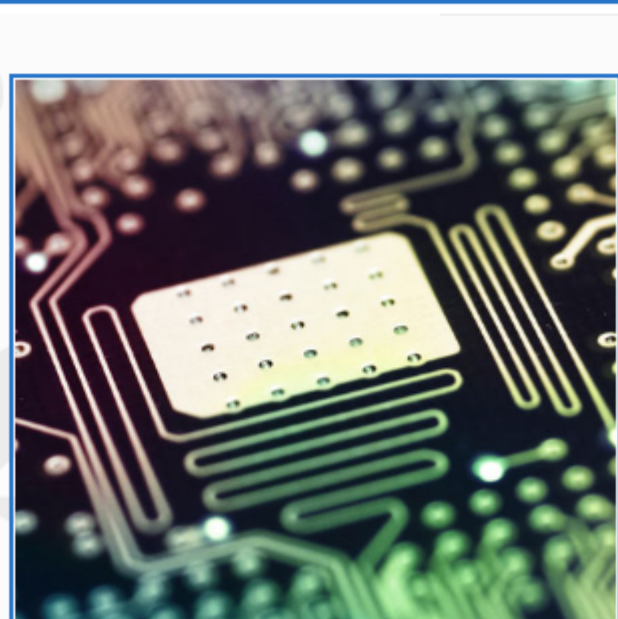
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Webinars

Mid-Infrared Materials and Devices on a Silicon Platform: Sensors, Detectors, and Imagers

Tue, Oct 1, 2019 1:00 PM - 2:00 PM EDT

In this talk, Anuradha (Anu) Agarwal, Ph.D., a principal research scientist at MIT, will review her group's work in the field of integrated photonics enabled by thermally evaporated chalcogenide materials. She will discuss her group's development of mid-IR transparent chalcogenide waveguide spirals integrated with mid-IR absorbing polycrystalline PbTe detectors for optical sensing on a monolithic silicon platform. She will also discuss her group's development of a universal design theory for multispectral detection in imaging applications, and her group's demonstration of fully functional mid-IR resonant-cavity-enhanced (RCE) photodetectors monolithically integrated with Si ROICs.



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