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Top Stories

Dynamic Speckle Patterns Detect Fires in Harsh Environments

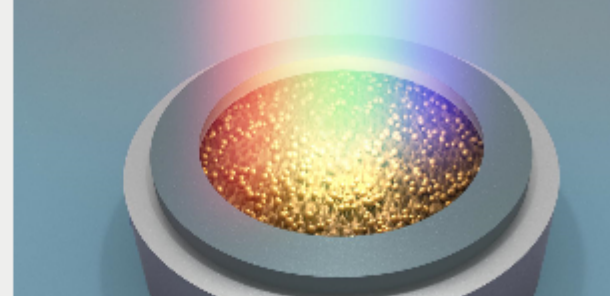
A multi-institutional group of researchers from Denmark and Norway has developed a laser-based system that can detect fires in challenging environments. The new system does not measure the amount of light or its wavelength, but rather how the refractive index randomly fluctuates due to heat convection from the fire.



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Light Irradiation Increases Charging Rates of Lithium-Ion Batteries

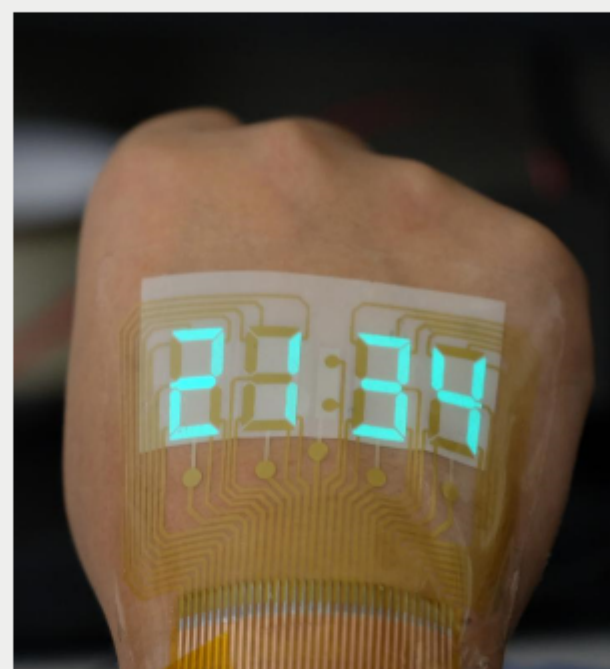
Researchers at the U.S. Department of Energy's (DOE) Argonne National Laboratory have discovered a new mechanism to speed up the charging of lithium-ion batteries for electric vehicles. By exposing the cathode to a beam of concentrated light — for example, the white light from a xenon lamp — the battery charging time can be lowered by a factor of two or more.



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A Stretchable Display Safely Lights Up Human Skin

A stretchable light-emitting device that operates at low voltages and is safe for human skin, developed by researchers at Nanjing University, could one day provide runners and others with a convenient alternative to a stopwatch or cellphone, allowing them to check their running times with a flick of the wrist.



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Featured Products



Ultima 2Pplus Multiphoton Imaging

Bruker Nano Surfaces
With new advances in field of view, sensitivity, wavelength, and sample accommodation, Bruker's Ultima 2Pplus delivers the best commercially available combination of flexibility, resolution, imaging depth, and speed, allowing users to perform simultaneous imaging, stimulation, and electrophysiology protocols with greater efficiency and effectivity.

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pco.edge 26 sCMOS Camera

PCO-TECH Inc.
Maximizing the amount of information per image is crucial for microscopy, quality control, high throughput screening, and other mesoscopic applications. This is

where the new pco.edge 26 fits superb. The pco.edge 26 offers you a 5120 x 5120 pixel resolution with 2.5 x 2.5 μm^2 pixel size.

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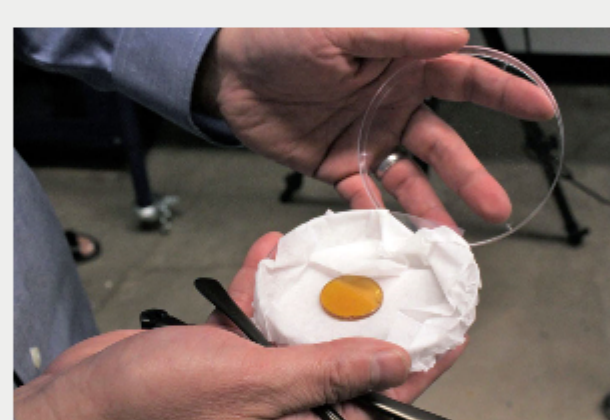
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More News

Polymer Lenses Could Lower IR Detection Costs for Consumer Products

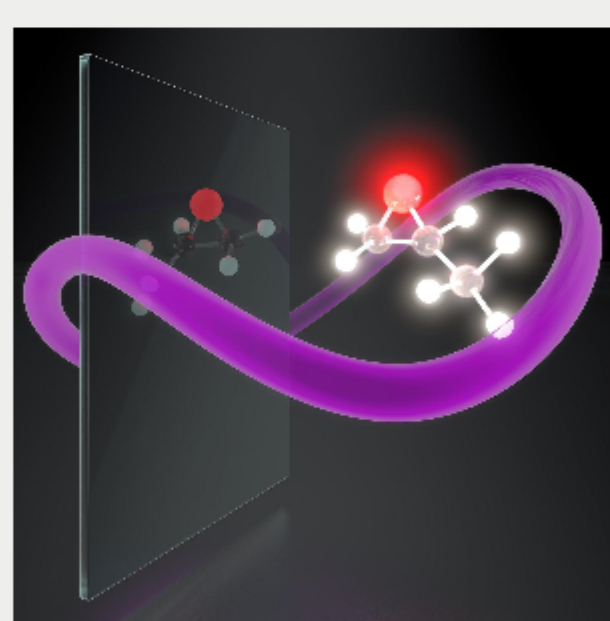
A team led by University of Arizona materials scientist Jeffrey Pyun is using a sulfur-based polymer made from waste generated by fossil fuels to develop consumer-grade infrared (IR) plastic lenses. The team has refined this material, which it first used in 2014, to create its second generation of IR lenses.



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Synthesized Light Enables Control of Chiral Light-Matter Interactions

A team composed of researchers from the Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy (MBI), the Israel Institute of Technology (Technion), and Technische Universitaet Berlin (TU Berlin) has generated and characterized a new form of light that can clearly identify molecules' handedness.



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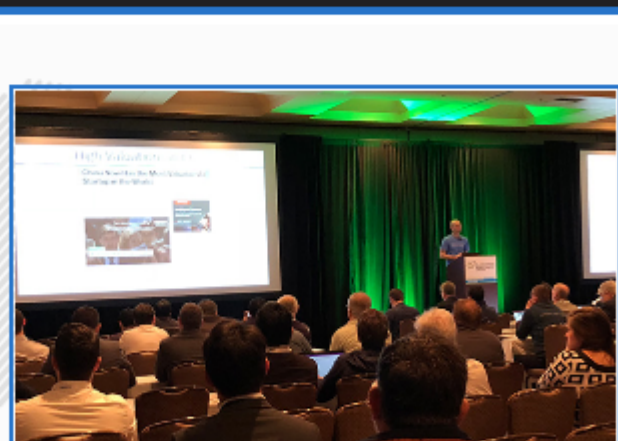
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Industry Events

CRAV.ai 2019 (Collaborative Robots + Advanced Vision + AI Conference)

November 12-13, 2019 - Doubletree by Hilton - San Jose, Calif.
At this two-day Collaborative Robots, Advanced Vision & AI (CRAV.ai) conference, you will learn about these growing, dynamic technologies from experts in each field. You'll connect with leading suppliers and integrators at the tabletop exhibition. And you'll walk away with actionable insights to help advance your business. Featured speakers include the chairman and CEO of Sarcos Robotics, director of speakers at Google, CTO of Intel Sports, and Qualcomm chancellor's chair in robot systems.



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Webinars

3D Imaging for Factory and Logistics Automation

Wed, Nov 13, 2019 10:00 AM - 11:00 AM EST
In this webinar you will learn how 3D imaging of conveyed objects can aid in quality inspection and logistics automation. The presenter, a senior expert in 3D vision at SICK IVP, will discuss triangulation and time-of-flight systems for 3D imaging. The focus will be on imaging technologies that will enable you to obtain the data you need to efficiently implement a range of applications, from inspecting small electronics to sizing and localizing packages in a distribution center.

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