

This Week In PHOTONICS

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Top Stories

Using Fiber Optics, ORNL Team Demonstrates Universal Quantum Computing

Researchers at Oak Ridge National Laboratory have demonstrated a frequency-based approach to quantum computing. The researchers performed two distinct, independent operations simultaneously on two qubits encoded on photons of different frequencies. Qubits are the smallest unit of quantum information.



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Wireless, Wearable Sensors-on-a-Chip Provide Precise Dosimetry at Multiple Wavelengths

A wearable, battery-free sensor has been developed that can measure and monitor exposure to light across multiple wavelengths, from the UV to the VIS to the IR regions. The device can record up to three wavelengths at one time.

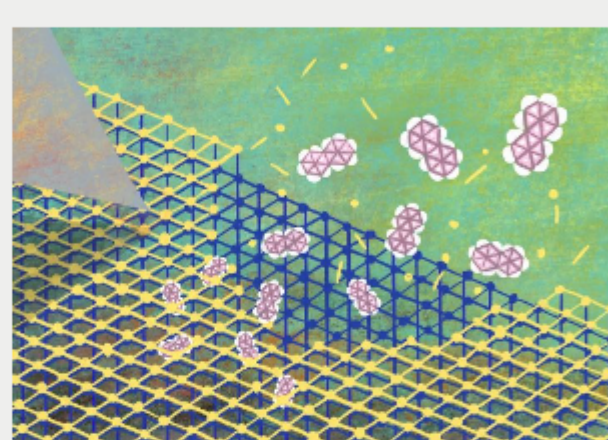


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Real-Time Imaging Reveals Flexibility of Crystal Surfaces

Images taken using an atomic force microscope have enabled researchers to observe, for the first time, the flexible and dynamic changes that occur on the surfaces of porous coordination polymer (PCP) crystals when biphenyl guest molecules are introduced.



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Featured Products



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 recently released its own new parameter, "Scattering" parameter...

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Back Illuminated sCMOS by PCO

PCO-TECH Inc.

Unique technology comes from evolution, combining existing and new technology. When PCO's tried and trusted sCMOS cameras pool forces with modern back illuminated (bi) sensor technology, pco.edge 4.2 bi and pco.panda 4.2 bi come into the world of science. Both cameras stand out with their nearly perfect quantum efficiency up to 95%.

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More News

Nonstop Photonics: Photonics West Energizes with Education, Events, Awards

With over 5000 presentations, more than 1300 exhibitors, 70 courses, three separate conferences, a two-day AR|VR|MR immersive, Prism Awards, a Startup Challenge, and a generous list of other special events, SPIE's Photonics West will again be the most comprehensive and well-attended annual global event for the photonics and laser industries.

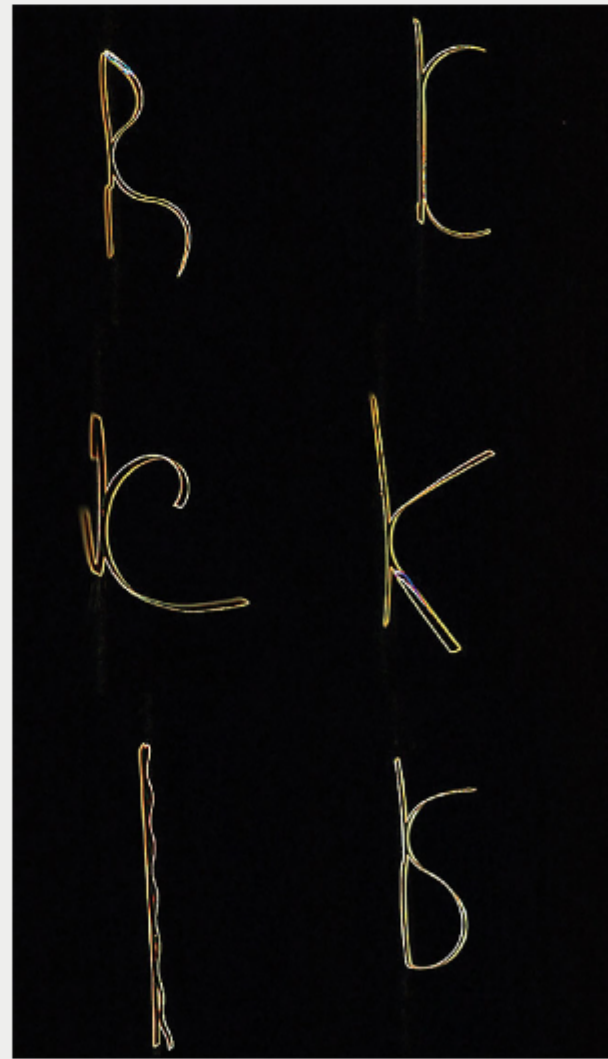


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Curiosity inspires light-controlled materials

Researchers at Tampere University of Technology (TUT) have achieved a breakthrough in reconfiguring light-controlled materials, while also gaining a greater degree of control over their movements. The researchers changed the shape, length, and/or thickness of the materials, using light as the stimulus.



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More Headlines

LIGO and Virgo Announce Four New Gravitational-Wave Detections [Read Article](#)

Graphene-Based Sensor Can Be Tuned to Detect Substances [Read Article](#)

Jenoptik to Fill Traffic Safety Orders [Read Article](#)

Fraunhofer Institute, OtoNexus to Tackle Middle Ear Infection [Read Article](#)

Scintacor Acquires Assets of Photonic Science Ltd. [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.



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