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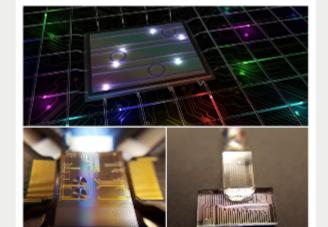


Top Stories

Single Spatial Mode A photonic system created using a lightweight, inexpensive photonic chip and off-

Photonic System Enables Generation of Quantum States in

the-shelf telecommunications components has been used to demonstrate that photons can become an accessible, powerful quantum resource. Integrated photonics has become a leading platform for the compact, cost-efficient, stable generation and processing of nonclassical optical states. However, so far, integrated entangled quantum sources have been limited to qubits.







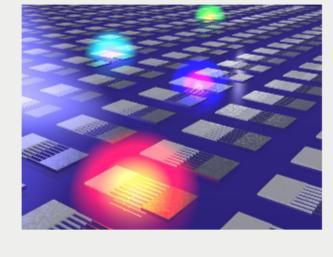
Miniscule Differences in Wavelengths



A novel technology that combines nanophotonics and thermoelectrics has the potential to detect different wavelengths of light, including visible and IR, at high

Photodetector Uses Disparate Technologies to Identify

resolution. The detector operates about 10 to 100 times faster than comparable thermoelectric devices and can detect light across a broader range of the spectrum than traditional photodetectors.











Michigan Technological University calculated that 51,999 American lives per year could be saved by transitioning from coal to photovoltaic-powered electrical

generation in the U.S. The study, focused on the cost of combusting coal in human lives along with the potential benefits of switching to solar, aimed to inform public health policy.

In a new study published in Renewable & Sustainable Energy Reviews, a team from









Would \$1,0,000,000



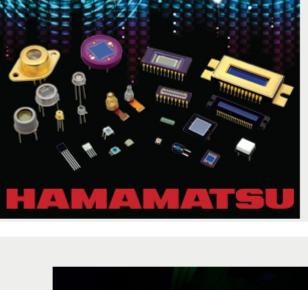
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Laser Sparks New Behavior in Light

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a vision-enabling interaction between light and matter. The changes produced unique x-ray pulses with the potential to generate extremely high-resolution

LUMINATE

imagery useful for medical, engineering, scientific and security purposes.

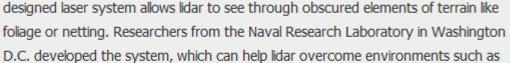
By focusing laser light to a brightness one billion times greater than the surface of the sun, physicists at the University of Nebraska-Lincoln have observed changes in





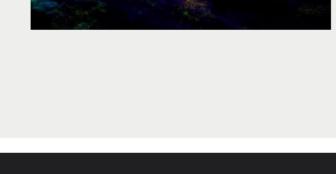
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new lidar system could be used in disaster relief situations where help was needed to find people in trouble. Read Article (4) (in (5) **More Headlines**

dynamic weather patterns to detect 3D images behind obscurities. Potentially, the









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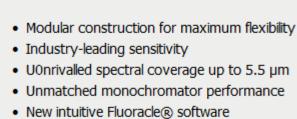
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GE Additive, Stryker to Collaborate in Additive Manufacturing Read Article

Optogenetic Tool Efficiently Manipulates Protein Clusters Under Blue Light Read Article

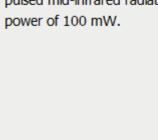
Featured Products New Era in Photoluminescence Quantum Cascade Laser (QCL) Module Launched

The newly launched FLS1000 sets the standard in both steady state and time-resolved photoluminescence spectroscopy for both fundamental research and routine laboratory applications.



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pulsed mid-infrared radiation at 7.82 µm and has a typical output

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Hamamatsu's pulsed QCL module (part

number L14147-1278-02) combines a

Hamamatsu Corporation

pulsed QCL, pulse driver, and a TE-cooler controller into a housing

approximately 185 mm x 127 mm x 70 mm in size. The QCL emits

18 - 20 SEP

A new resource on industrial laser technologies, applications, and markets. Materials Processing Micromachining Lasers in Industry Additive Manufacturing

Industry Events OSA Advanced Photonics Congress 2017 July 24-27, 2017 - Astor Crowne Plaza - New Orleans United States The OSA Advanced Photonics Congress will cover multiple aspects of optical data transfer and its technologies, from photonic integrated circuit design, fabrication and performance, advances in component design and performance, optical interconnects, switching and storage, optical computing, data and information

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processing. It also will cover the network design and the control, implementation

link performance. Image courtesy of OSA, The Optical Society of America. More Info PHOTONICS buyers' guide® Looking for Imaging and Sensing products? Search PhotonicsBuyersGuide.com, or browse these product categories: Intensified CMOS Cameras Detector Chips

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