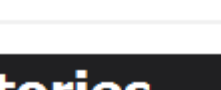


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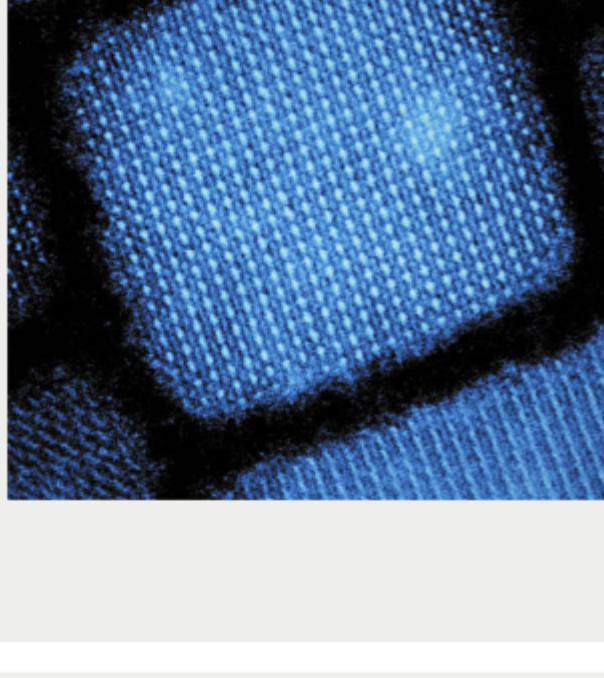
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Top Stories

Discovery Could Lead to Materials with Brighter, Faster Light Emission

Scientists have discovered why a certain class of nanocrystals — caesium lead halide quantum dots — shines in such bright colors. They have also confirmed that these nanocrystals emit light extremely quickly. Experiments showed that caesium lead halide quantum dots emit light at room temperature after just one nanosecond.



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Stellar Nursery Captured By ESO's OmegaCAM

The OmegaCAM camera on the European South Observatory's (ESO's) VLT Survey Telescope has captured a glittering view of the Sharpless 29 stellar nursery. Many astronomical phenomena can be seen in the giant image, including cosmic dust and gas clouds that reflect, absorb and re-emit the light of hot young stars within the nebula.



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Energy-Efficient Frequency Comb Could Be Used for Quantum Encryption

Researchers demonstrated a materials-driven strategy to generate low-threshold frequency combs in organic-silica hybrid microcavities. To verify its approach, the team used a self-assembly method to graft small molecules with large Kerr coefficients on the surface of optical resonators.



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M-Wave 339 IR Interferometer



M3 Measurement Solutions Inc.
The M-Wave 339 is a state-of-the-art Infrared Interferometer operating at 3.39 micrometers. It is the ideal instrument for testing mid-wave infrared imaging components/systems and optical material homogeneity.

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AFL's new Micro-Tactical Fiber Optic Cable combines the ruggedness of military tactical cable designs with the ultra-high fiber density of AFL's micro-cable technology. Designed for rapid deployment in optical networks requiring high mechanical performance specifications, extreme environmental exposure, and highly dynamic operating conditions.

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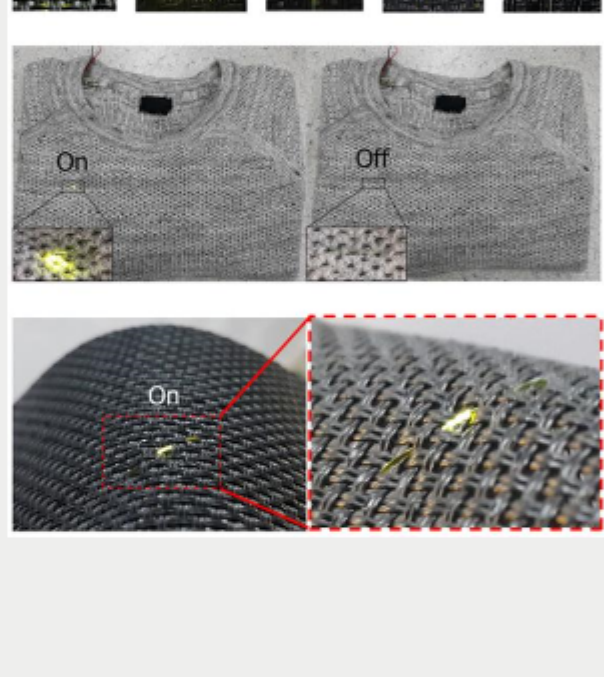
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Fiber OLEDs Achieve Performance Levels Comparable to Conventional Counterparts

Researchers have fabricated highly efficient OLEDs on an ultrathin fiber for use in wearable displays. The weavable OLEDs, which are formed from a simple, low-temperature solution process, demonstrated performance values comparable to OLEDs fabricated on planar substrates.



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US Army Research Lab Working on 3D-Printed Drones with Marine Corps

Researchers at the U.S. Army Research Laboratory (ARL) are working with the Marine Corps to develop 3D-printed drones as materials science, aviation technology and software development merge to deliver new capabilities. Additive manufacturing is a viable way to produce mission-essential parts or equipment at the point of need, said ARL engineer Larry Holmes Jr.



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SPIE Photonics West 2018

January 27 - February 1, 2018 - Moscone Center - San Francisco
United States

Photonics Media Booth: 846/847

SPIE Photonics West 2018 is the flagship event for the photonics industry. Featured technologies will include: Lasers and other light sources; cameras and CCD components; fiber optics; high speed imaging and sensing; optical materials, substrates and coatings; and much more. With more than 70 individual workshops to choose from, there is a course to fit each individual's needs. Program tracks will include: Photonic therapeutics and diagnostics; biomedical spectroscopy, microscopy and imaging; laser sources; nonlinear optics and beam guiding; optoelectronic materials and devices; photonic integration; semiconductor lasers and LEDs; and more.

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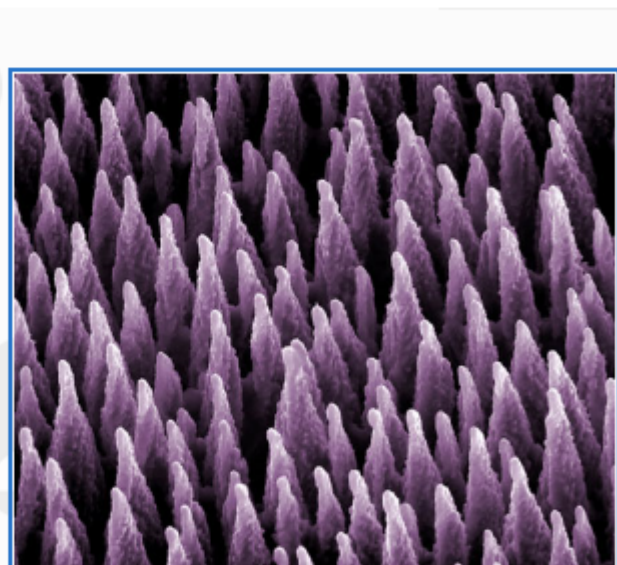
Webinars

By a Stretch: Making Femtosecond Laser Design and Manufacturing Simpler, Leaner and Cheaper

Tue, Jan 23, 2018 1:00 PM - 2:00 PM EST

Next-gen ultrafast lasers will be cheap, compact, robust and versatile. How? gen ultrafast lasers will be cheap. This webinar will discuss challenges in femtosecond laser design and manufacturing, such as femtosecond pulse management and optics alignment, and explore promising new volume market opportunities. It will highlight how designing a simpler and more versatile laser, specifically at the stretching-compressor stage, will be key to lowering costs and thriving in the competitive ultrafast laser landscape. Presented by TeraXion.

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