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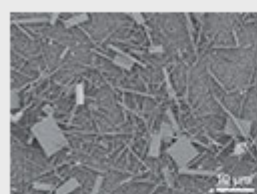
Thursday, April 16, 2015



This week on *Light Matters*:

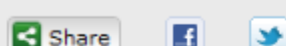
Photonics innovations bring optical gyroscopes, 3-D scanning and medical diagnostics to small packages.

Perovskite Nanowires Yield Efficient, Tunable Lasers



A "freshman-chemistry-level" technique for growing nanowires produces tunable lasers that are nearly 100 percent efficient. With low lasing thresholds and Q factors around 3600, these single-crystal lead halide perovskite nanowires could be suitable for miniature optoelectronic devices.

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Expanding Focus on OLED Displays, Aixtron Acquires PlasmaSi for \$16M

PlasmaSi technology enables the encapsulation of organic thin films through deposition of ultrathin, flexible barrier films. The approach is suited for next-generation OLED display products, including mobile phones, handheld devices, tablets, wearables and large-screen HDTVs, Aixtron said.

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Australian Military Tests Laser-Guided Missiles

Laser-based missile guidance systems scored 10 out of 10 hits in recent testing aboard an Australian military helicopter, according to developer BAE Systems Inc.

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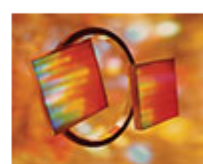
Featured Products



HELIOS@ Uniform Sources

Labsphere, Inc. Labsphere announces HELIOS@ Uniform Sources for Luminance and Radiance, combining the best features of Labsphere's 35 years of imager calibration expertise.

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Corporate Capabilities

Optometrics Corporation Optometrics is an ISO 9001:2008 certified, Lean optical component and sub-assembly manufacturer of high quality, cost competitive reflective gratings, ruled gratings, holographic gratings, interference filters, mirror coatings and many more.

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FiberCube Laser Marking System

LaserStar Technologies The FiberCube@ laser marking and laser engraving system is a compact, turnkey marking, engraving and cutting system that offers the benefits of a non-contact, permanent laser mark, laser engraving, or cut onto almost any type of material.

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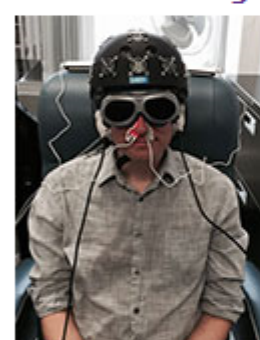
CMOS Snapshot Micropolarizer Cameras

4D Technology The PolarCam™ snapshot micropolarizer camera simultaneously captures images at 4 polarization angles from each video frame, enabling a range of image enhancement techniques and polarimetric measurements.

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VA Researching LED Treatments to Battle Gulf War Illness



MRI scans indicate that LED therapy increases blood flow in the brain. It also appears to have an effect on damaged brain cells — specifically on mitochondria — which output energy in the form of the chemical ATP. This could lead to clearer and sharper thinking, researchers said.

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QD Vision, Konka Partner to Launch Quantum Dot TVs in China

China represents almost two-thirds of global demand for UHD or 4K televisions, according to DisplaySearch, a subsidiary of market research firm IHS Inc.

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First Light Imaging Wins EC Grant to Develop IR Camera

First Light Imaging SAS will use a grant from the European Commission to finalize development of an ultrafast, low-noise IR camera for use in astronomy, medical imagery, industry and defense.

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WHITE PAPER



Modifying Laser Beams: No Way Around It, So Here's How

Ophir - Spiricon LLC, Photonics

To apply a laser to an industrial process, medical therapy, or communications technology, it is usually necessary to modify the laser beam to achieve the desired results. Beam measurement tools make this possible. We will discuss how to match an appropriate laser beam profiling technique to a laser application, including building an aligned optical system, collimation and focusing, high power laser quality measurements, and proper attenuation techniques for making accurate laser measurements.

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Vision Engineering, RSS Logistics Chosen as Navy Prime Contractors

Two client companies of the University of Central Florida's Business Incubation Program have been selected as prime contractors in a highly secure online community of U.S. businesses qualified to service Navy and Marine Corps programs.

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Acid-Free Fabrication Creates Longer-Lasting Flexible Displays



Hybrid organic-inorganic thin films for flexible displays can be created with a new technique that does without the corrosive acids used in conventional sol-gel fabrication.

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Optics Golf Tournament Recognized by Rochester Children's Hospital

A patient room in the Golisano Children's Hospital at University of Rochester Medical Center has been named in honor of the WNY Optics/Photonics Golf Tournament, an annual charity event.

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Industry Events

SPIE DSS 2015 - April 20-24, 2015 · Baltimore Convention Center

The weeklong event features SPIE's Sensing Technology + Applications and Defense + Security symposia.

SPIE Defense + Security focuses on IR systems; lidar and radar; laser technology; image processing; data analysis; intelligence, surveillance and reconnaissance systems (ISR); display technologies; unmanned systems and robots; CBRNE; cyber sensing and security; biometric technology; law enforcement; energy harvesting; and more.

SPIE Sensing Technology + Applications focuses on commercial sensing and imaging topics and further development of affordable technology options with civilian applications.

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FEATURED VIDEO



Edmund Optics – Discovering DIC Microscopy

Join Stefaan Vandendriessche as he demonstrates a Differential Interference Contrast (DIC) microscope built from stock components found in the Edmund Optics catalog. Stefaan will also show how a DIC microscope can be used to enhance the contrast of object features that are otherwise difficult to observe using traditional microscopy techniques.

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