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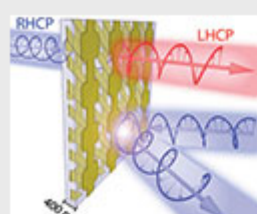
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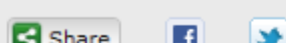
Thursday, August 21, 2014

Metasurface Switches Polarization More Efficiently



An ultrathin metasurface can alter light polarization with 50 percent efficiency, hinting at future microscale devices for controlling light. A team from the University of Michigan and its Lurie Nanofabrication Facility created the device, which is 250 x 250 μm and is 400 nm thick.

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VCSEL Market to Grow to \$2.1B by 2018

Vertical-cavity surface-emitting lasers will be a \$2.1 billion market, growing 33.1 percent from 2013 to 2018, BCC Research predicts.

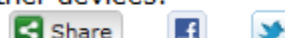
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NSF Grant Funds Study of 'Next Graphene'

A nearly \$1.7 million grant will advance the study of what engineers are calling "the next graphene," which could play a pivotal role in optoelectronics and other devices.

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Extreme Imaging Products

Stanford Photonics, Inc. Stanford Photonics designs and manufactures digital ICCD/ICMOS/CCD cameras for advanced imaging applications in the life sciences, commercial and military surveillance markets.

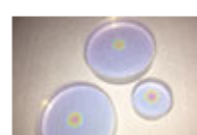
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Graded Reflectivity Mirrors

BMV Optical Technologies Graded Reflectivity Mirrors, also known as Gaussian mirrors, are used as cavity optics within unstable laser resonators. Often used with Nd:YAG (1064nm) lasers, they can also be designed for use in other laser systems.

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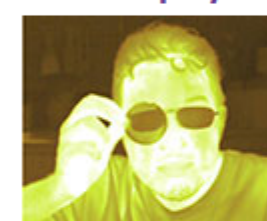
Ultra Precision Machining Center

Schneider Optical Machines The UPC 400 represents a new, flexible process center for fabricating ultra-precise freeform surfaces. With onboard fast tool, milling, and optical metrology, the UPC 400 integrates all essential processes onto a single machine platform.

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Sulfur Copolymers Boost IR Optics



A new polymer made from sulfur demonstrates high transmission of IR light that could greatly enhance thermal imaging systems.

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NASA to Study Incoming, Outgoing Arctic Light

A new NASA mission will examine Arctic sea ice loss and cloud formation in part by measuring incoming solar and outgoing IR radiation.

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IR Sensor Provides 'Virtual Touch' for Blind

An IR sensor and the concept of virtual touch could help the visually impaired take on many day-to-day activities.

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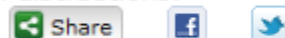


In this edition of the industry's premier weekly newscast: A metasurface alters light polarization, virtual touch helps the blind, hydrogen prevents optical fiber damage, and light measures surface vibrations.

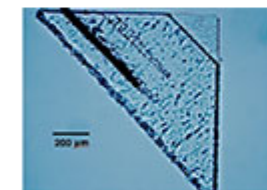
Optogenetics Controls Brain 'Switchboard' in Mice

Optogenetic techniques have been used to alter the attention spans of mice, helping to shed light on how the brain mediates internal thoughts and external distractions.

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Microscopic analysis of interstellar dust is giving scientists an in-depth look at the origins of our solar system.

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Sydor Instruments Acquires Sabre Ballistics

Sydor Instruments LLC has acquired test equipment firm Sabre Ballistics of Caterham, England.

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LED Simulation Reflector Lenses

Lambda Research Corp.

TracePro® is an award-winning opto-mechanical design software for layout, optimization, & analysis of illumination systems. This white paper illustrates how TracePro allows users to begin a project with an initial or basic design for LED lighting systems, use software simulation prior to building hardware, and easily create complex reflector shapes. TracePro's reflector and lens simulation utilities are specifically designed to help CAD designers without traditional optical engineering expertise design LED optical components quickly.

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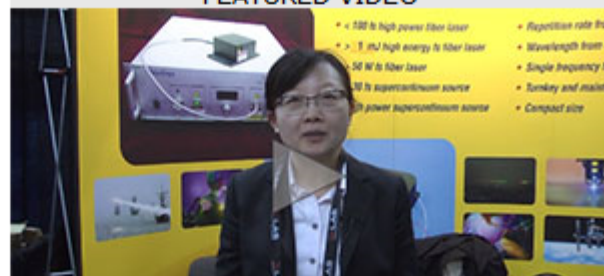
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THE PULSE OF THE INDUSTRY



FEATURED VIDEO



Lih-Mei Yang, Vice President of PolarOnyx, talks about the Prism nominated URANUS mJ.

PolarOnyx - Ultra-Short Pulsed Fiber Lasers

Lih-Mei Yang, Vice President of PolarOnyx Laser, talks about the Prism nominated URANUS mJ. PolarOnyx Laser has successfully developed high energy mJ ultra-short pulsed fiber lasers operating at 1 micron wavelength region. This module provides a turn key solution as well as an embedded electronics with a computer interface.

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