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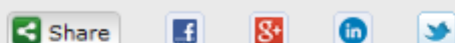
Thursday, January 14, 2016

Fluorescent Probe IDs Cancerous Tissue in Clinical Trial



An imaging probe that fluoresces in the presence of a cancer-related enzyme has been used safely in humans. Beyond increasing a surgeon's ability to locate and remove all of a tumor on the first attempt, the technology could also help detect residual cancers following treatment.

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Neptec Wins \$1.7M Design Contract for Space Station Vision System

Roughly the size of a microwave oven, the vision system will reveal damage the naked eye cannot detect or that is located in hard-to-reach areas. It will use a combination of three sensors: a 3D lidar system, an HD camera and an IR camera.

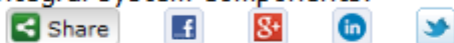
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Biolase, IPG Team Up on Dental Lasers

Biolase Inc. and IPG Photonics Corp. have entered into a development and distribution agreement for dental laser products, accessories and integral system components.

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Featured Products



High-Voltage Laser Diode Controller

Necsel
Necsel High-Voltage Controller is a compact laser diode controller and is the easiest way to start using Necsel lasers.

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Thin-Film Coatings

OptoSigma Corp.
For more than twenty years, OptoSigma has been at the forefront of the optical components industry, manufacturing thin-film coatings to precision standards.

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Curved Displays

Abrisa Technologies
Abrisa Technologies offers transparent conductive ITO, photopic AR and filter coatings on 50 to 100 micron thin, flexible glass to support ultra-thin and curved display.

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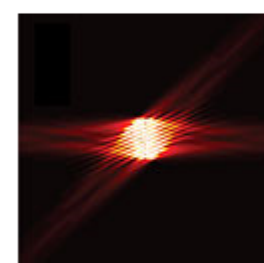
Mirror Scan Nanopositioner

Mad City Labs
The Nano-MTA series of closed loop mirror scanning nanopositioners is ideal for applications where extreme repeatability and accuracy in beam steering is required.

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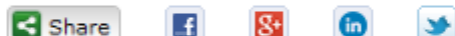
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Metasurface Polarimeter Meets Telecom, Nanotechnology Demands



A novel architecture for in-line polarimeters enables monolithic, on-chip integration of polarization sensors for applications as varied as drug design and telecommunications. The device reduces the complexity and size of standard polarimeters by using a 2D metasurface covered with a thin array of metallic antennas, smaller than a wavelength of light, embedded in a polymer film.

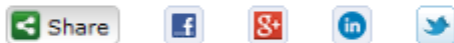
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Eric Betzig Group Takes \$25K Prize for Light-Sheet Microscopy Advance

Developed by the Nobel laureate and colleagues at the Janelia Research Campus, the approach causes less damage than traditional imaging and improves image acquisition speed.

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OSA Names Chief Scientist, Journal Editors

The Optical Society has chosen a trio of researchers and an entrepreneur to lead three of its scholarly journals and its scientific endeavors.

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It could be a while before we're comfortable letting machines take the wheel, but autonomous vehicle technology is rapidly becoming better than we are at keeping an eye on the road. Come for a spin this month on Light Matters!

QCL Features Higher Power, Wider Tuning Range

Combining a tunable laser with an on-chip amplifier has enabled a versatile and powerful tool for spectroscopy and other applications.

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Incandescent Bulb Redesign Recycles Waste Radiation



A redesigned incandescent bulb recycles heat radiation to emit visible light with an efficiency comparable to that of some fluorescent and LED bulbs. Elements of the design could also improve the performance of other hot thermal emitters such as thermophotovoltaic devices.

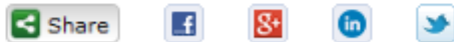
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Renewable NRG Systems to Supply NY State with Doppler Lidar

The lidar units will be integrated into enhanced weather stations throughout the state, providing real-time observations to the National Weather Service for use in high-resolution numerical weather prediction models.

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Industry Events

SPIE Advanced Lithography - Feb. 21-25 · San Jose, Calif.



This lithography industry conference and exhibition draws more than 2,300 attendees, 50 exhibitors and 600 technical papers. Topics include extreme-ultraviolet (EUV); alternative technologies; metrology, inspection and process control; advances in patterning materials and processes; optical microlithography; optimization of design, process and technology for manufacturability; and etch technology for nanopatterning.

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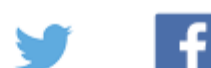
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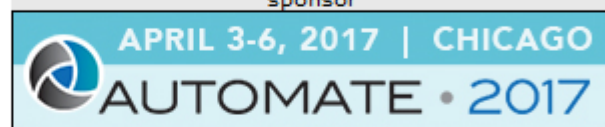
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