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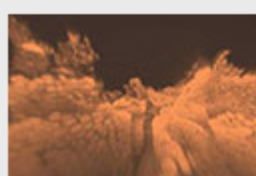
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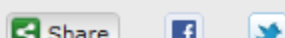
Thursday, August 14, 2014

Transparency Allows Better Diagnostic Imaging



It is now possible to see through the entire human body, thanks to a new method that offers new insight into the cell-by-cell makeup of organisms. The technique could enable new diagnostic medical applications, including better imaging of developmental problems and diseases.

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Atwater and Polman Receive the Julius Springer Prize

Harry Atwater and Albert Polman received the annual Julius Springer Prize for Applied Physics for their achievements in plasmonics and nanophotonics.

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Artificial Retinas Using Graphene Called Biocompatible

Viable artificial retinas could be possible using graphene to develop a device that forms a link to the optical nerve.

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Opto-Mechanical Integration

B-Con Engineering
B-Con Engineering has earned its reputation in aerospace optics because of its depth of experience in the fields of laser systems integration, optical design and fabrication.

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Germanium Fresnel Lenses

RHK Japan
NTKJ has developed Germanium Fresnel lenses for IR applications using micro fabrication technology. Germanium Fresnel lenses were developed in order to reduce weight and thickness of the conventional Germanium lenses.

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Laser Rotary Encoder

Canon USA
Canon R-1 series Laser Rotary Encoders offer high performance (high resolution, accuracy and precision) in a very compact 36mm diameter body.

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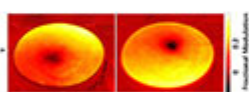
YAG Series & NLO Laser Crystals

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Manufactures laser crystals including YAG series and NLO. Cryslaser is experienced in the growth of YAG crystals, and provides diffusion bonding crystals and non-linear crystals including BBO, LBO and KTP.

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Light Used to Measure Surface Vibrations



A technique that passively monitors light intensity modulation is able to measure the physical and optical properties of a vibrating surface.

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NASA Engineer to Complete First 3-D-Printed Space Camera

New imaging instruments made using laser-based 3-D printing could bring the benefits of such technology to the forefront, and perhaps into space.

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Ametek Acquires Amptek and Luphos

Ametek Inc. has acquired Amptek Inc. and Luphos GmbH.

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In this edition of the industry's **premier weekly newscast**: A new 3-D printed space camera, transparent diagnostic imaging, light pulses that control graphene, and Managing Editor Laura Marshall talks about her visit to Microscopy & Microanalysis 2014.

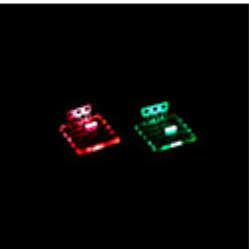
Three-Mode Skin Probe Detects Cancer

A new device could potentially allow doctors to get a clearer picture of cancerous skin lesions and reduce the number of unnecessary biopsies.

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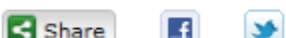


Hybrid 'Wonder Material' Creates Efficient LEDs



A new type of perovskite has been used to create a new type of LED that has the potential to create more efficient light sources than conventional solar cells.

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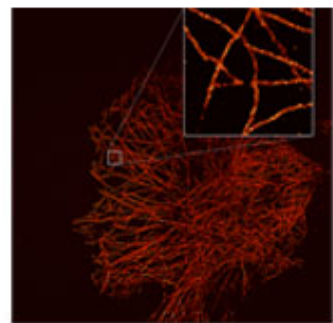
Fiber Optic Sensors Market Projected to Reach \$2.2B by 2018

The global market for fiber optic sensors is expected to reach \$2.2 billion by 2018, representing a compound annual growth rate of 4.5 percent since 2013.

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WEBINAR



Fast & Sensitive Camera Technologies – How to Choose the Best Solution

Thursday, August 21, 2014 1:00 PM - 2:00 PM EDT

FREE WEBINAR



Dr. Hanrahan

Dr. Orla Hanrahan has worked with Andor Technology as an Application Specialist in Life Science for the past four years. In this webinar, Dr. Hanrahan will outline the key parameters required for a fast and sensitive detector. She will present Andor's range of imaging cameras which will demonstrate the advantage of choice and flexibility to the end user. The key differences between EMCCD and sCMOS technology will be discussed as well as the applications these cameras are suitable for.



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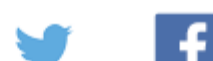
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FEATURED VIDEO



Edmund Optics – TECHSPEC Cage System

Katie Walker, a Product Line Engineer at Edmund Optics, showcases Edmund Optics' Optical Cage System and how it can be used to build a digital video fluorescence microscope. The Optical Cage System is a collection of optomechanical components that can be used to easily construct complicated optical systems.

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Characterization to the Extremes: Terahertz materials characterization at cryogenic temperatures and high magnetic fields

Lake Shore Cryotronics, Inc.

In continuing pursuit of improved performance, higher processing speed, and more compact packaging, researchers spend considerable time identifying and characterizing novel and previously unexplored materials. This paper explores how THz energy can be used to gain insights into material properties, particularly under variable or extreme temperatures and magnetic fields.

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