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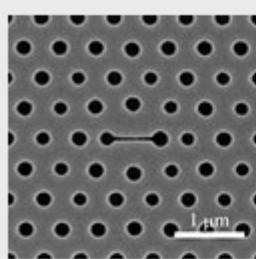
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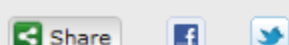
Thursday, January 15, 2015

Nanolaser Detects Biomolecules



A laser biosensor has demonstrated a simpler way to identify DNA and biomarker proteins via changes in a solution's surface charge density or pH.

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FEATURED VIDEO



Introduces the Next Generation Goniometer

Trioptics – PrismMaster

PrismMaster Goniometers are used for high precision optical angle Measurements on prisms, polygons and wedges. The Video introduces the new PrismMaster product group. When accuracy really counts, there is no alternative to PrismMaster®. With an accuracy of 0.2 arcseconds it stays the world's most accurate prism angle measurement device.

Intel Invests \$24.8M in Smart Glasses Firm Vuzix

Intel Corp. has made a \$24.8 million investment to accelerate Vuzix Corp.'s development of fashionable smart glasses.

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New Model Could Bring Custom Optogenetics Proteins

Deeper understanding of the molecular mechanisms of a light-sensitive protein could lead to more specialized optogenetics techniques.

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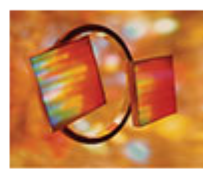
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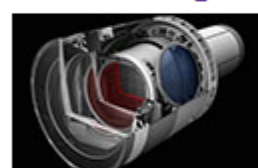
OPAL IR System

Image Science Ltd.
The OPAL IR system is a very fast and accurate system for measuring MTF and other optical parameters in the infrared spectral region. A single-element MCT detector is used to scan the image of slit target at a constant speed.

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'World's Largest Camera' Secures Key DOE Approval



The U.S. Department of Energy has granted intermediate approval for construction of a 3.2-gigapixel CCD camera to be integrated into the Large Synoptic Survey Telescope.

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Partnerships Aim to Produce Smartphone 3-D Cameras

Two business partnerships are setting out on separate missions to develop compact 3-D cameras for mobile devices and, potentially, machine vision applications.

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Solar Material Produces 'Twin' Charges on Single Molecules

A new polymer solar cell seeks to achieve lower thermal loss by producing two charge carriers per molecule rather than one.

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In this edition of the industry's premier weekly newscast: we talk with the inventor of a two-in-one imaging and therapeutic platform for ovarian cancer. We also explore a new acousto-optic modulator that allows unprecedented control of laser beams. Also, a summary of the latest business news and a look at the finalists for the Prism Award in materials and coatings.

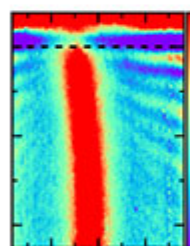
Opsens Receives \$1M-Plus Order for Fiber Optic Mining Sensors

Opsens Inc. has received an order worth more than \$1 million for fiber optic sensor systems for mining operations in South America.

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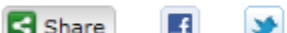


Material Overcomes Plasmon Damping



High-quality graphene sandwiched between two films of hexagonal boron nitride allows plasmons to propagate over relatively large distances without losing energy.

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Sales Up 10 Percent for Endoscopy Firm Mauna Kea

Endoscope firm Mauna Kea Technologies grew its revenues by 10 percent in 2014 despite a sales slowdown in the U.S.

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WHITE PAPER



System Integration of Fiber Lasers and Its Effects on Laser Quality

Ophir - Spiricon LLC, Photonics

The quality of a laser is usually only measured on the laser source. But most laser sources are integrated into a system being used for a specific process or application. This means the laser light can interact with different components, each of which can have an effect on its quality. This paper looks at specific examples of beam profiles and effects on focus spot size, ellipticity, and more.

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Industry Events

International Year of Light Opening Ceremonies - Jan. 19-20, 2015 · Paris, France



Established by a UN resolution, the International Year of Light and Light-Based Technologies is a global initiative to raise awareness of how photonics and optics promote sustainable development and provide solutions to worldwide challenges in energy, education, agriculture, communications and health.

The festivities will take place around the Paris headquarters of the United Nations Educational, Scientific and Cultural Organization.

Five Nobel laureates will give plenary lectures on energy, telecommunications and the fundamental physics of light-matter interactions. Other events will recognize Albert Einstein, who described the quantum nature of light in 1905 in his special theory of relativity, and 11th-century Arab thinker Ibn al-Haytham, who is considered the father of modern optics.

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