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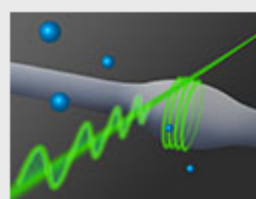
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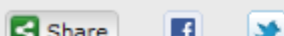
Thursday, November 6, 2014

Strong Photon-Photon Interaction Created in Fiber



An ultrathin glass fiber system could facilitate the interaction of pairs of photons. Typically, two photons do not interact with each other at all. The newly established strong photon-photon interaction, developed at the Vienna University of Technology, presents an important step toward a broader, worldwide quantum network for data transmission.

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Laser Ablation Could Boost Jet, Rocket Fuel Efficiency

A new approach to the concept of laser propulsion could launch satellites into orbit and push aircraft past Mach 10 with enhanced fuel efficiency.

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\$100M Photonics Institute Launched in Singapore

A new photonics research institute aims to be a focal point for development of the next generation of optoelectronics.

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Room Temperature HgCdTe Infrared Detectors

Infrared Associates
Infrared Associates, Inc. can now provide Room Temperature HgCdTe detectors covering the range of wavelengths from 1 um to 6 um. These detectors have both high sensitivity and ease of operation.

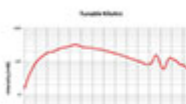
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A.R.W. Optical Corporation
ARW Optical Corporation manufactures custom, standard and OEM optical components and coatings in the UV to IR region. Provides rapid prototyping through volume production for all industries.

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High-Intensity Tunable Illuminator

Optical Building Blocks
Optical Building Blocks (OBB) announces the introduction of the Tunable KiloArc™ High Intensity Illuminator. The Tunable KiloArc™ delivers over 100 mW of tunable optical power from 300 nm to 1,100 nm.

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Bioimaging Technique Isolates Moving Tissue



Light-guiding technology, called time-reversed adapted-perturbation optical focusing, could take scientists on a journey inside blood vessels.

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Solar Cell Fabrication Technique Uses Impure Silicon

A new processing technique uses less-expensive raw materials in lower quantities, which could mean fewer production steps in manufacturing solar panels, and potentially lower energy consumption.

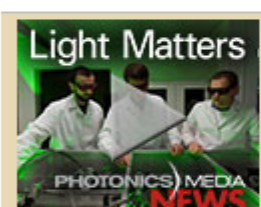
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Earnings Soar at Newport

Newport Corp. reported third-quarter profits of \$9.5 million, a dramatic increase from \$437,000 in the third quarter of 2013.

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In this edition of the industry's **premier weekly newscast**: A bit of trick photography can slow a laser pulse to a snail's pace, the latest business and bioimaging news, and another installment of the EDU Spotlight.

Nanoconstructs Aid Ovarian Cancer Targeting

Newly developed nanostructures have proven to be effective vehicles for laser imaging and ablation of ovarian cancer cells.

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'Astro-Comb' Rediscovered Venus to Find Exoplanets



A laser-based frequency comb used to examine Venus' influence on the solar spectrum could help astronomers discover Earth-like planets orbiting distant stars.

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German Consortium Seeks Path to Commercial Flexible OLEDs

A new industry consortium will explore how to integrate organic LEDs that are flat and flexible into automobiles, aircraft and households.

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WHITE PAPER



Improve Laser Diode Performance by Reducing Output Cable Inductance using Twisted Pair Cable

IXYS Colorado

The intent of this article is to provide information regarding the performance of twisted pair cable to reduce output cable inductance. The information is based in electromagnetic theory and is supported with actual measured results which apply to a subset of laser diode applications.

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WEBINAR



Fiber Optic Glass Processing for Photonic Component Fabrication

Tuesday, November 11, 2014 1:00 PM - 2:00 PM EST

FREE WEBINAR



Doug Duke

Special photonics components may be required for sensors (as used in the oil and gas industry) and for applications in various fields such as cutting-edge telecommunication systems, bio-medical use, and industrial applications such as fiber lasers. Many of these components may be fabricated based on optical fibers by using glass processing techniques. This presentation will outline a number of photonic components and assemblies that can be fabricated including lenses, multi-core fan-outs, tapered devices, and over-cladding. In addition, extremely specialized component splicing will be discussed, including splicing of low-melting point glass as well as Photonic Crystal and Photonic Band-gap fibers.

Industry Events

Neuroscience 2014 - Nov. 15-19, 2014 · Washington, D.C.



Neuroscience 2014 is a venue for neuroscientists to present emerging science, learn from experts, forge collaborations with peers, explore new tools and technologies, and advance careers.

More than 30,000 industry experts from more than 80 countries will discuss topics including scientific publishing, academia, advocacy and public education. Attendees will have the chance to review and learn about emerging and unpublished findings via more than 15,000 submitted abstracts. There will be panel discussions, a social issues roundtable, and junior investigators will have the chance to propose minisymposiums to present research.

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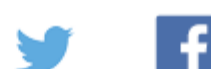
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