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LIGHT EXCHANGE



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X-ray Laser Observes Photosynthesis in Action

Photonics West Is the 'Place to Meet'

systems such as those used to create renewable energy sources.



Image Sensor is Transparent, Circuit-free

29 April to 3 May 2013 · Baltimore, Maryland, USA

The structure and chemical behaviors of a natural catalyst involved in photosynthesis were observed

simultaneously for the first time. The team that conducted the work using the x-ray laser at SLAC National

Accelerator Laboratory's Linac Coherent Light Source hope to apply the design principles observed to artificial

A record number of international participants at SPIE Photonics West 2013 made the event "the place to meet" for researchers, developers and suppliers of optics and photonics technology. The event featured nearly 21,000

registered attendees — up 2 percent from last year — and featured more technical papers and exhibiting

A flat, transparent and circuit-free polymer sheet developed at Johannes Kepler University may provide an entirely new way of capturing images, or may act as a touch-free user interface that could seamlessly overlay a television or other display technology. The sensor is suffused with tiny fluorescent particles that absorb a very specific wavelength and re-emit it at a longer wavelength. "To our knowledge, we are the first to present an image sensor that is fully transparent - no integrated microstructures, such as circuits - and is flexible and scalable at the same time," said professor Oliver Bimber.

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companies than last year. Read Article >>

> Singlemode and PM Couplers Gould Fiber Optics



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Laser Proposed to Vaporize Threatening Asteroids

deception through the control of light-matter behavior.

Roman Cup Inspires New Nanoplasmonic Sensor

Device Creates Multiple 'Ghosts'

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An optical device that uses metamaterials and optical scattering to "engineer" multiple ghosts — the holy grail of

the fields of optical illusions, electromagnetics and radar detection — offers new possibilities for cognitive

The famous Lycurgus cup created by the Romans in 400 A.D. has inspired University of Illinois at Urbana-

Champaign researchers to develop a nanoplasmonic spectroscopy sensing device that, for the first time,

Two scientists in California have conceived DE-STAR (Directed Energy Solar Targeting of Asteroids and exploRation) as a realistic means of mitigating potential threats posed to the Earth by asteroids and comets.

Illuminance Spectrophotometer Allied Scientific Pro

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On this edition of the industry's premier weekly newscast: Light Matters Space rocks rock Earth, a probe emits light in living cells, an sponsored by x-ray laser reveals secrets of photosynthesis, and we learn about a new camera system from the Belgium-based research group imec. Hosted by Photonics Media's Laura Marshall and Melinda Rose. Lightiools **Illumination Design** Fiber laser maker IPG Photonics ended 2012 with double-digit growth in its primary sales market, materials Software

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Probe Emits Light in Living, Unharmed Cells

inserted inside cells without damaging them.

Trumpf Names National Sales Manager

processing, the company announced last week, while also providing positive guidance for the first quarter of Share

Stanford University engineers are the first to demonstrate that sophisticated engineered light resonators can be

Pat Grace will lead North American sales for lasers and systems at the company's Laser Technology Center in

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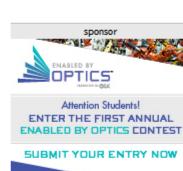


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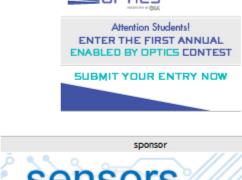
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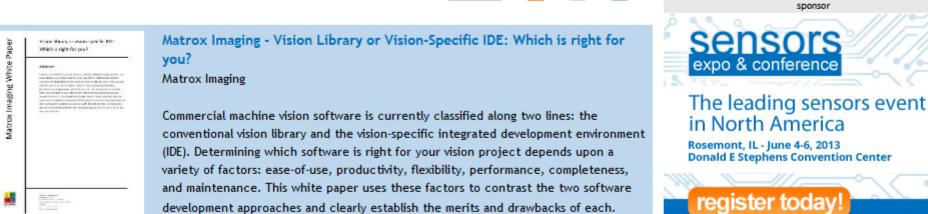






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The Optical Fiber Communication Conference and Exposition and the National Fiber Optic Engineers Conference (OFC/NFOEC) is the premier international event for both the science and business of optical communications and networking. It features more than 110 short courses, over 550 exhibitors and 750 technical papers covering technologies and applications in cloud and data center networking, space division multiplexing, 1 TB and beyond optical networking, flexible grid networks, convergence of optical and wireless networks, 100 G/400 G network design and optimization, and more. MORE INFO >>

Pittcon is the world's largest annual conference and exposition for laboratory science. It

PITTCON 2013 - March 17 - 21, 2013 · Philadelphia, PA



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features the latest technology and instrumentation from over 900 exhibitors and more than 2000 technical presentations that cover topics such as life sciences, drug discovery, nanotechnology, biomedical, environmental, homeland security, food science, forensics, agriculture and biomass. The event will also include a keynote lecture by R. Michael Barnett of Lawrence Berkeley National Laboratory, short courses in over 50 topics, poster and networking sessions, and the Waters Symposium, which will recognize the commercialization of chemical imaging. Nobel Laureate Sir Harold Kroto will be the Wallace H. Coulter Plenary Lecture speaker for Pittcon 2013. MORE INFO >>



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