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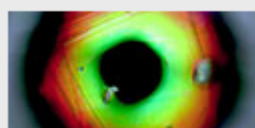
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PHOTONICS.com

Thursday, June 26, 2014

Light-manipulating Nanobarrel Traps Molecules



Cucurbituril, a barrel-shaped molecular container that acts as a mini test tube, has been developed by a team of scientists in Europe. They have discovered that this could lead to lower-cost, more reliable diagnostic testing.

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Laser-enhanced radio-frequency mapping could lead to better assessment of metamaterials.

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LMI Acquires GF Messtechnik

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RHK Japan
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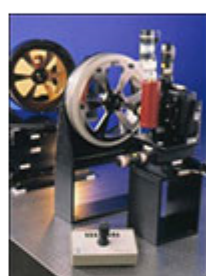
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Two-Mode Imaging System More Efficient for Tumor ID



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More Efficient Solar Cells with a One-Step Process

A new one-step process for producing efficient antireflective materials could mean big things for solar cells.

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Nanofiber Fabrication Boosts Quantum Computing

A new approach to fabricating ultra-high-transmission optical nanofibers has been found to act as low-power traps for long-lived qubits.

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In this edition of the industry's **premier weekly newscast**: a one-step process produces more efficient solar cells, a two-mode imager better identifies tumors, nanofiber fabrication boosts quantum computing, and we talk with students in a new segment called **EDU Spotlight**.

Career Award Funds CO₂ Photocatalysis Study

A Rice University professor has received a National Science Foundation award to study photocatalytic reactions that could reduce carbon dioxide emitted by power plants.

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Pyramid Structure Makes Better PHOLEDs



Arranging phosphorescent organic light-emitting diodes into a pyramid shape can enhance their efficiency, making them brighter and more productive.

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A portable brain-mapping device based on NIR spectroscopy offers a better understanding of post-traumatic stress disorder.

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Industry Events

SEMICON West 2014 - July 8-10, 2014 · San Francisco, Calif.



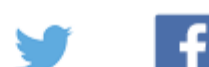
SEMICON West is the annual tradeshow for the micro- and nano-electronics manufacturing industries. The event partners with Intersolar North America to provide a comprehensive experience for those in the semiconductor and PV manufacturing industries.

The tradeshow will feature technology and products in areas such as LEDs, photovoltaics, wafer processing equipment and materials, etch, lithography, chemical mechanical planarization, silicon and non-silicon based wafers and substrates, and robotic systems and components.

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FEATURED VIDEO



EQ-99 LDLS™ Laser-Driven Light Source

Energetiq – Laser-Driven Light Source

Energetiq CEO Paul Blackborow discusses the company's EQ-99 LDLS laser-driven light source, winner of the 2010 Prism Award for photonics innovation in the Other Light Sources category. The EQ-99 LDLS covers a broader spectral range with lifetime at least an order of magnitude longer than traditional xenon and deuterium lamps, enabling high spectroscopic or image resolution. The Prism Awards are co-sponsored by Photonics Media and SPIE and presented during SPIE Photonics West.

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