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UV-Activated Adhesive Treats Heart Defects

A bio-inspired, light-activated adhesive used to treat congenital heart defects could soon replace more invasive treatments such as sutures, new research indicates. "This study demonstrated that the adhesive was strong enough to hold tissue and patches onto the heart equivalent to suturing," said Nora Lang, M.D., of the Department of Cardiac Surgery at Boston Children's Hospital. "Nothing foreign or toxic stays in the bodies of these patients."

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Powerful Exoplanet Camera Unveiled

After nearly a decade of development, a powerful exoplanet camera, the Gemini Planet Imager, is now operational, detecting IR radiation to image and analyze planets from other solar systems.

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UK Awards Funds for Light-Based Manufacturing

The £3.6 million from EPSRC will fund research projects that will explore how light can be used in new ways to improve manufacturing in the pharmaceutical, chemical, electronics and security industries.

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Metamaterials Perform 'Photonic Calculus'

The discovery that metamaterials can be designed to perform "photonic calculus" as lightwaves pass through them could give rebirth to analog computers.

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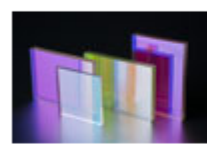
Campaign Begins to Endow Award Honoring Tingye Li

The OSA Foundation has launched a fundraising campaign to endow an award for recognizing young optics researchers, in honor of the late optical communications pioneer Tingye Li.

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Ultra-Flat Dichroic & Polychroic Filters

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Alluxa, an emerging leader in next generation optical filters is pleased to announce ultra-flat dichroic and polychroic filters with very high levels of in band transmission. Typical uses for ultra-flat, thin dichroics are in imaging and laser based applications.

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Light-Emission Studies May Improve Bioimaging

New understanding of secondary light emission by plasmonic nanostructures could lead to improvements in medical imaging, say researchers at the University of Illinois.

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Photonics Grants Awarded to Four Colleges

The National Center for Optics and Photonics Education will provide grants to four US colleges, with the goal of attracting high school students to photonics-related associate degree programs.

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X-ray Camera Has Image Stabilizer

The efficiency of the new Fourier transform holography method is based on an x-ray focusing optic being firmly fixed to the object to be imaged using a Fresnel zone plate.

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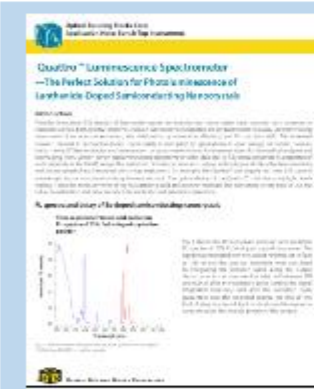
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Finisar Acquiring u2t Photonics

In a move to strengthen its 100G coherent technologies portfolio, Finisar Corp. will acquire u2t Photonics AG of Berlin for \$20 million in cash, the companies said this week.

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The Perfect Solution for Photoluminescence Studies of Lanthanide-Doped Semiconducting Nanocrystals

Optical Building Blocks Corp.

Photoluminescence (PL) studies of lanthanide-doped semiconducting nanocrystals have become very common in materials science. The increased research interest in such materials is prompted by applications in solar energy conversion devices, lasing media, LED technologies and development of upconversion-based luminescent labels for biomedical analyses and bioimaging. The new Quattro™ bench-top luminescence spectrometer is the ideal tool to fully characterize the PL properties of such materials in the UV-VIS range.

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In 2013, the exhibition sold out with more than 1234 companies. This year's exhibition will include five days of presentations, courses, and special events that offer opportunities for face-to-face interaction with potential customers.

The Job Fair will be held in conjunction with the SPIE Photonics West Exhibition. An 'Exhibit-Only' badge or any other type of Photonics West badge is needed to enter the exhibit hall. Upload your CV or resume in advance to be found by employers. In-person attendance is not required to upload your resume.

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Energetiq - EQ-99 LDLS 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. www.energetiq.com

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