Thursday, April 05, 2018 This Week In

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<u>LightMachinery</u>

The HyperFine Spectrometer, Brillouin spectroscopy. Ready to go. Out of the box. @www.lightmachinery.com

Optically Rewritable LCD Could Enable Flexible Displays Engineers have manufactured a flexible, optically rewritable LCD

information to be uploaded onto a flexible paperlike display, where it

(ORWLCD), about as thin as a piece of paper, that would allow

could be updated quickly. Read Article 🚱 🚹 🛅 💟



Manufacturing





NIR Chemical Imaging Can Help Ensure Safety in Pharma

powder over a wide area. Results showed that NIR CI-based

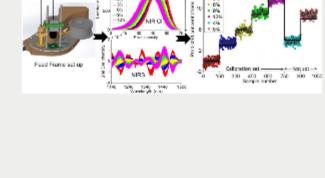
than those achieved using NIR spectroscopy (NIRS). Read Article

predictions of concentration could potentially be more representative

Researchers evaluated the ability of NIR chemical imaging (NIR CI) to monitor the concentration of pharmaceutical ingredients in tableting

Atomically Thin Light-Emitting Device Could Advance 'Invisible' Displays Engineers have built a bright light-emitting device that is millimeters wide and fully transparent when turned off. The light-emitting material

in the device is a monolayer semiconductor that is just three atoms



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thick.







LightMachinery is a compact, low cost spectrometer

capable of sub-picometer resolution. It is ideal for pulsed

laser characterization and for measuring the small spectral

create immersive virtual experiences. However, as display

images are magnified to fill a user's field of view, display

brightness and color, dead pixels, line defects, cloudiness,

defects are also magnified. Issues with uniformity of

and image position become more evident to the user

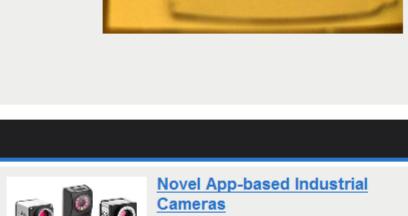
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The HyperFine Spectrometer LightMachinery Inc.

shifts from Brillouin scattering.

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manufacturer IDS transforms cameras and sensors into

customized, smart vision sensors. You need your IDS NXT

devices to solve a vision task that isn't covered by standard

Illuminated!

PCO-TECH Inc.

screens.

in Headset

AR/VR Lens: Measure Displays

Designed for measuring hyperfine

spectra and subtle spectral shifts,

the HyperFine spectrometer from

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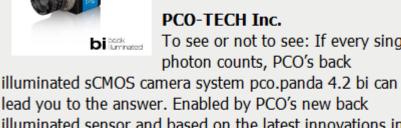
Radiant Vision Systems, Test & Measurement Displays viewed near to the eye,

such as those in AR/VR devices,

whose eyes are only centimeters away from display Visit Website Request Info

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pco.panda 4.2 bi **More News** MIR Spectroscopy Could Be Used to Detect Airborne

Scientists have discovered a way to detect trace amounts of chemicals in the air by using an IR laser to identify the unique frequency of

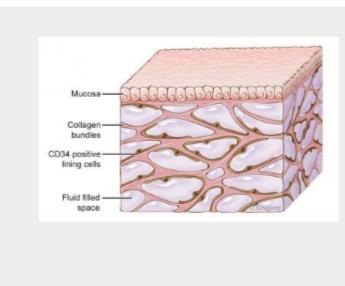
Toxicants

billion.

individual molecules. The technique is sensitive enough to detect a molecule present in the air at concentrations as low as one part per

Read Article 🚷 🚹 📵 💟 Confocal Laser Endomicroscopy Uncovers Previously Unknown Organ Using imaging technology called probe-based confocal laser endomicroscopy, researchers have identified a previously unknown

feature of human anatomy that could have implications for the function



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of organs, tissues and diseases.



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Webinars

sensing and imaging technologies event for the defense industry. Presentations from leading industry experts will cover sensors, IR technology, laser systems, spectral imaging, radar, lidar and more. Your registration will give you access to two programs, Defense + Security and Commercial + Scientific Sensing and Imaging. These programs complement each other with a wide range of photonics technologies for defense and commercial applications.

Fundamentals of Helium Leak Detection

Tue, Apr 17, 2018 1:00 PM - 2:00 PM EDT

SPIE Defense + Commercial Sensing 2018

leak detection. You will learn the different methods of locating leaks and determining leak rate, and which method to employ for your product or system. Register Now From Layout to Multiphysics: Integrating Thermal and Photonics Simulation into the PIC Design Flow

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Technologies, will describe the challenges of locating and measuring

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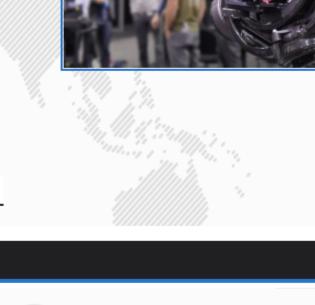
by Sarah Boisvert

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leaks, the importance of leak rate specification and various methods of

Thu, Apr 19, 2018 11:00 AM - 12:00 PM EDT Presented by CST, this webinar will show you how to use CST STUDIO SUITE to simulate the design of Photonic Integrated Circuits (PICs). It will demonstrate the complete workflow to analyze thermally tuned PIC devices, starting from a component model in Luceda Photonics IPKISS. Simulating PIC devices can be challenging. This webinar will introduce you to CST STUDIO SUITE's unique platform for addressing these challenges. Register Now



and optical devices that are used in a wide array of industries including spectroscopy, life sciences, semiconductor, aerospace, defense, display,

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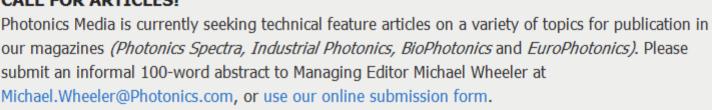
Nd:YAG Lasers

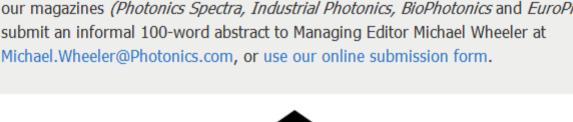
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