

This Week In PHOTONICS

PHOTONICS MEDIA



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Extending 800 nm OCT to long range imaging

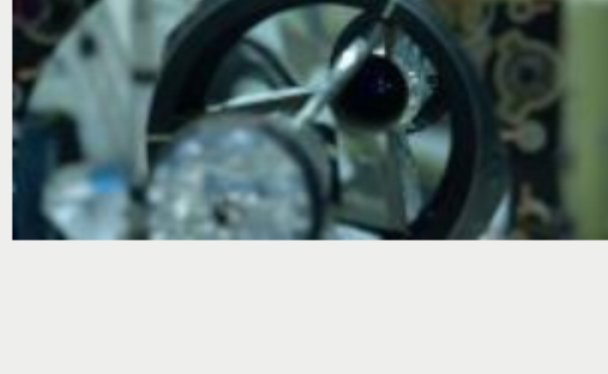
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Top Stories

Laser Instrument for Mapping World's Forests Gets Ready to Launch

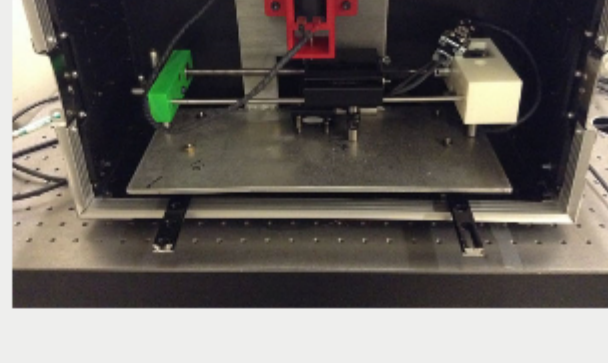
A laser instrument designed to map the world's forests in high-resolution 3D is undergoing final integration and testing at NASA's Goddard Space Flight Center. The Global Ecosystem Dynamics Investigation (GEDI) instrument is expected to launch aboard SpaceX's 16th commercial resupply services mission, targeted for late 2018.



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Triboluminescence Is Used to Test for Drug Efficacy

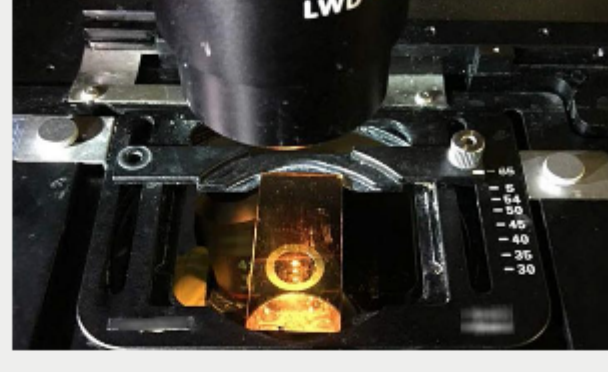
An instrument has been developed that uses triboluminescence (TL) to enable selective detection of trace crystallinity within amorphous solid dispersions, used in the preparation of pharmaceutical formulations to make the drug more efficacious. The instrument can accurately detect in the early stages of drug development whether a pharmaceutical formulation has trace crystalline content that could negatively impact the drug's stability and bioavailability.



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Engineered Glass Slide Enables Microscopic Thermal Mapping

Using a coating of an optical exceptional point structure, researchers demonstrated a multifunctional microscope slide that supports real-time monitoring and mapping of temperature distribution and heat transport, in addition to conventional microscopic imaging. The integration of optical sensing technologies with a conventional glass slide could lead to improved experimental control at the microscale.



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Featured Products

Micro-Tactical Cable

AFL
AFL's new Micro-Tactical Fiber Optic Cable combines the ruggedness of military tactical cable designs with the ultra-high fiber density of AFL's micro-cable technology. Designed for rapid deployment in optical networks requiring high mechanical performance specifications, extreme environmental exposure, and...

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Broadband Wire-Grid Polarizers

Moxtek Inc.
Moxtek offers a variety of wire-grid polarizers and polarizing beamsplitters designed for demanding applications. Our polarizers are made from heat tolerant inorganic materials that enable exposure to temperatures that degrade film based polarizers. Our polarizers are designed for narrow and broadband UV-VIS-IR wavelengths.

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Patterned Thin-Film Coatings

Deposition Sciences Inc. (DSI)
The drive towards smaller photonic sensors, often integrated on monolithic substrates with other processing electronics, has created a need for coatings directly on semiconductor wafers, or on miniaturized substrates. Specifically, this allows the integration of optical filters, apertures or other features which modify...

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pco.panda 4.2 back illuminated (bi)

PCO-TECH Inc.
German-based sCMOS pioneer PCO has just introduced the latest addition to its camera family: the pco.panda 4.2 back illuminated (bi). PCO's sCMOS family is the most versatile imaging portfolio on the market. It is renowned for its extremely low readout noise of 1.0 e- med, high resolution of up to 5.5 megapixels...

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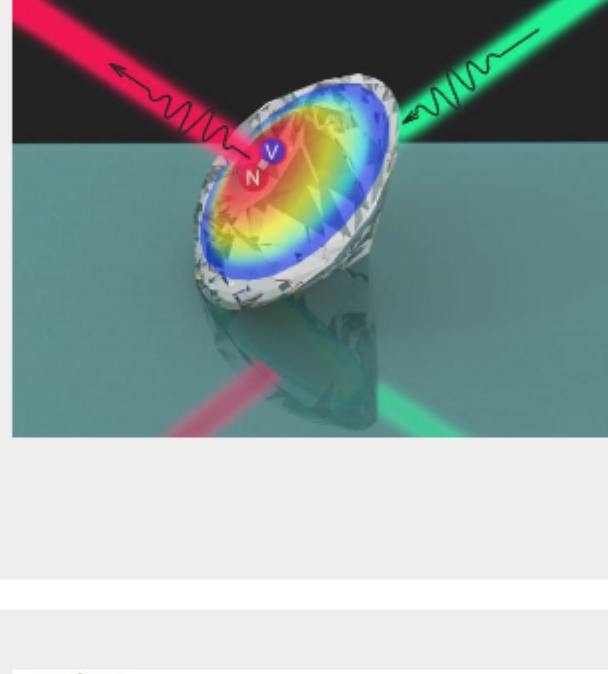
new >>

pco.panda 4.2 bi

More News

Researchers Demonstrate Active Nanoantennas Based on Diamond Nanoparticles

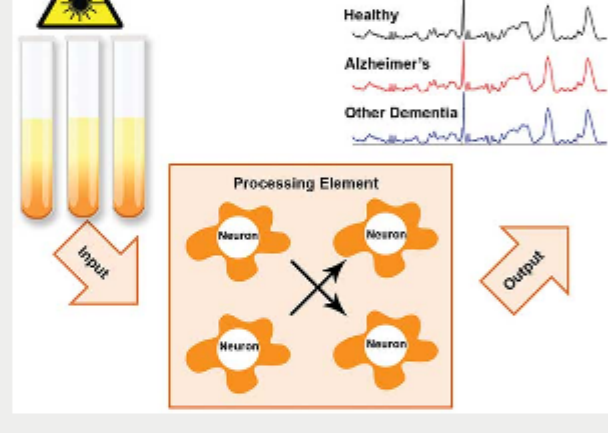
A controlled light source has been developed that is based on a nanodiamond. According to researchers, experiments showed that the diamond shell could double the emission speed of light sources and could help control light sources without additional nano- or microstructures. The enhancement of the fluorescence rate of the emitters was due to artificially created defects in a diamond crystal lattice.



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Raman Hyperspectroscopy Shows Promise for Diagnosis of Alzheimer's

Raman hyperspectroscopy combined with advanced statistics is uniquely suitable for characterizing microheterogeneous systems. Understanding the structure and biochemical composition of samples at the microscopic level is important for many practical applications, including various bioanalytical tasks.



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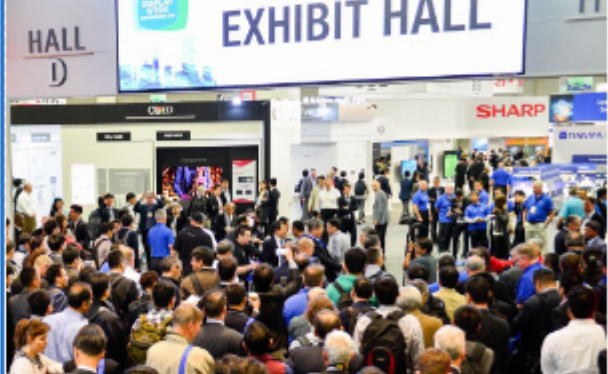
www.sensor-test.com

Industry Events

Display Week 2018

May 20-25, 2018 - Los Angeles Convention Center - Los Angeles United States

Display Week is where the world's display industry meets to show, see, touch and test next-generation products, and connect with the entire supply spectrum. The week will include a Technical Symposium, featuring industry pioneers, academics and scientists who are leading the way in display technology; more than 200 exhibitors; conferences focused on the business end of today's emerging technologies; a student job fair; networking events and much more.



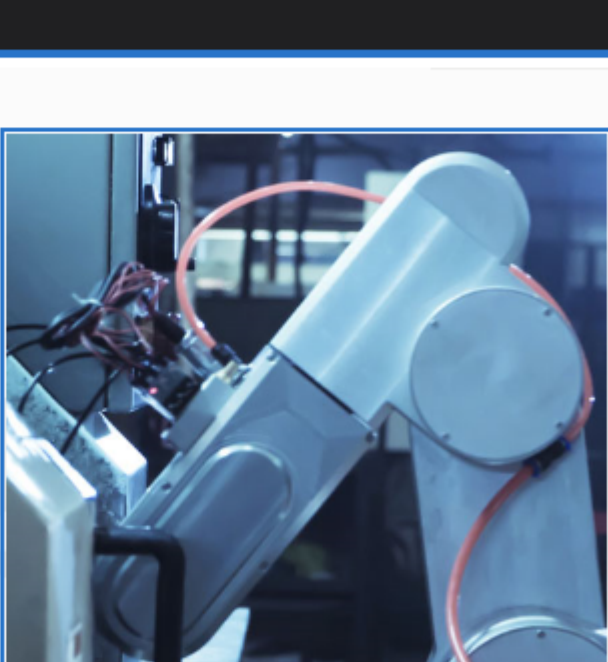
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Webinars

How to Engineer a Successful Robotic Bin-Picking Application

Wed, May 23, 2018 1:00 PM - 2:00 PM EDT

Bin picking has often been described as the Holy Grail of vision-guided robotics. This webinar will discuss the best strategies for avoiding common pitfalls you may run into when attempting to engineer a bin-picking application. You will learn how to achieve a bin-picking solution that improves productivity and that is tailored to your operation and business goals.

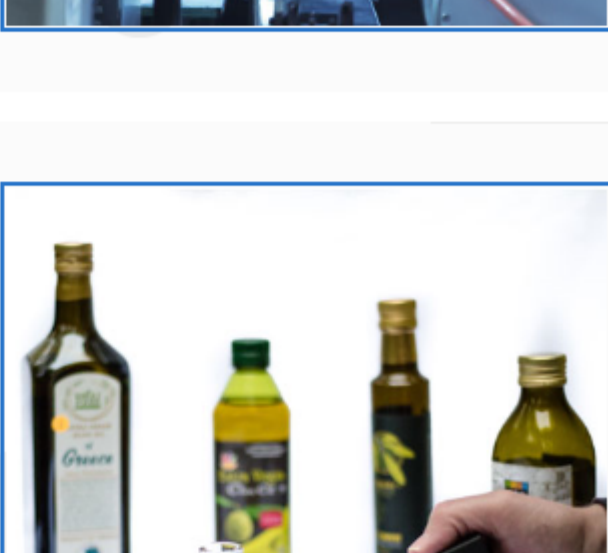


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Hand-held Spectrometers in 2018 and Beyond

Thu, May 24, 2018 1:00 PM - 2:00 PM EDT

NOTE: The date for this webinar has been moved to May 24. This webinar will survey the hand-held and portable spectroscopy field, with an emphasis on optical instruments, their underlying technologies and their applications. It will review some of the devices that are on the market today and conclude with a look at where hand-held spectroscopy could be headed. Sponsored by B&W Tek, by United Power Research Technology Corporation (UPRtek), by Hamamatsu, and by SPECIM.



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