This Week In











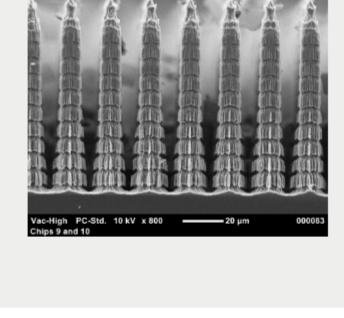
Moth's Eye Inspires Design and Applications of Camera

Developed by NASA

Top Stories

A moth's eye is the inspiration behind the technology that allows a new NASAdeveloped camera to create images of astronomical objects with far greater

sensitivity than was previously possible. When magnified, a moth's eye contains a very fine array of small tapered cylindrical protuberances whose job is to reduce reflection. This allows the moth to absorb light making night navigation possible.









some OLEDs degrade and lose brightness over time have not been as easy to identify. Devices fabricated with seemingly the same procedures and conditions

but by different research groups often degrade at vastly different rates, even

when the initial performances are the same. One possible explanation for discrepancies in OLED lifetimes could be miniscule impurities present in the vacuum chamber during fabrication. Read Article 🚱 🚹 🛅 💟

Photonic-Based Smart Needle Detects At-Risk Blood Vessels



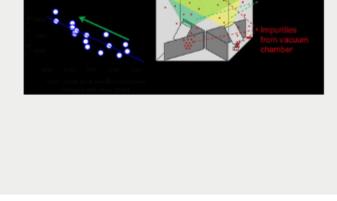




the needle; this will potentially lessen fatal brain bleeds. The project is a

A new high-tech tiny imaging probe encased with a brain biopsy needle could make brain surgery safer. Researchers from the University of Adelaide developed the medical device that will let surgeons "see" at-risk blood vessels as they insert

collaboration with the University of Western Australia and Sir Charles Gairdner









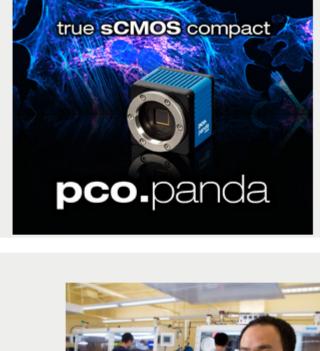




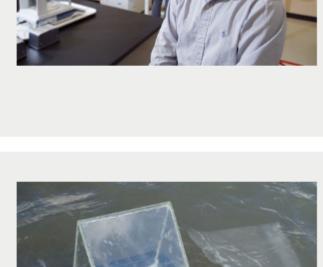
The discovery of a one-dimensional crystal structure that is highly photo luminescent could help facilitate the development of novel applications for

optoelectronic devices such as LEDs, photovoltaic cells and lasers.

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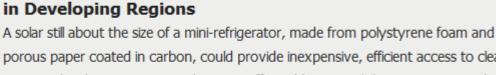
Solar-Powered Water Purifier Could Boost Water Security

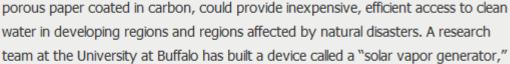


water in developing regions and regions affected by natural disasters. A research

Lasers

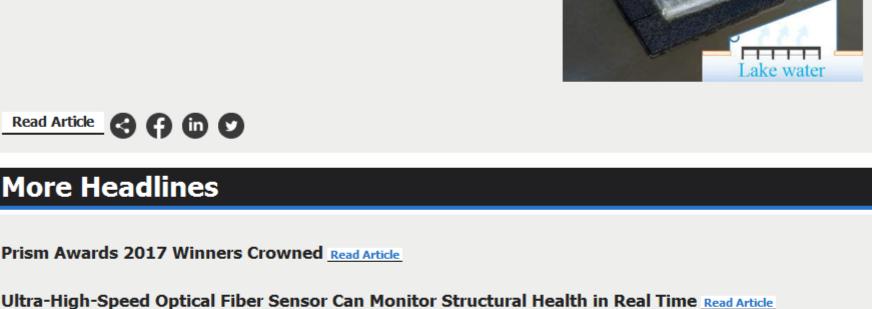






which cleans and/or desalinates water using heat converted from sunlight.

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Webinars

Tue, Feb 14, 2017 1:00 PM - 2:00 PM EST

at the event.

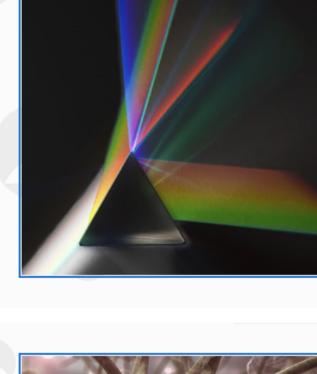
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Scientific CMOS (sCMOS) cameras are increasingly becoming detectors of choice for a range of quantitative imaging and spectroscopy applications. This webinar, presented by Princeton Instruments, will give you an overview of sCMOS camera

technology and how it compares to CCD, EMCCD and ICCD low light imaging and spectroscopy detectors. Speaker Ravi Guntupalli, vice president of sales and marketing at Princeton Instruments, will discuss the key improvements of "back illuminated" sCMOS technology over previous generations; performance criteria for low light detectors; and how to select the optimum detector technology based on your application requirements. The webinar is aimed at both beginners and advanced users of various optical diagnostic techniques. Register Now High-Speed Imaging At and Beyond the Diffraction Limit Thu, Feb 16, 2017 1:00 PM - 2:00 PM EST Hari Shroff, Ph.D., head of the Section on High Resolution Optical Imaging at the

microscopy (SIM) and light-sheet microscopy, including new implementations of light-sheet microscopy that improve the spatial and temporal resolution of (dual-

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