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Laser Pulses, Class of New Materials Show Potential for

Energy Efficiency

An experiment that involves the cutting edge of condensed matter physics and materials science could make superconductivity at room temperature and more efficient energy usage a reality. An international collaboration used tailored laser

pulses to snap the electronic interactions in a copper, oxygen and bismuth compound. The scientists identified the condition for which electrons do not repel each other, which is an essential prerequisite for current to flow without resistance.



Randomness

Live Cells







The generation of single photons in random polarization states from diamond could

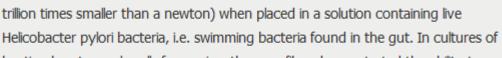
Unpolarized Single Photons Generated With True

have significance in the development of quantum cryptography and the testing of fundamental problems in quantum mechanics. Until now, much of the research has been focused on the generation of single photons in pure polarization states.



Unpolariz Single-photo

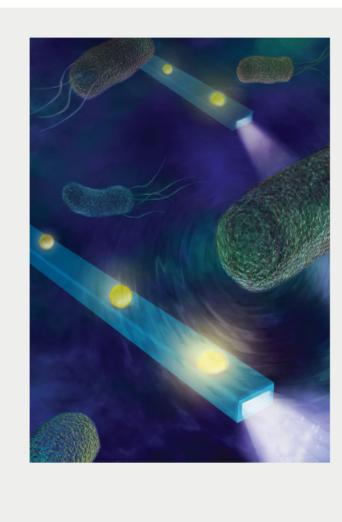
aser excitation



Nanofiber Device Detects Forces and Sound Waves from

A novel nano-sized optical fiber, about 100 times thinner than a human hair, is sensitive enough to detect forces down to 160 femtonewtons (fN) (about ten

beating heart muscle cells from mice, the nanofiber demonstrated the ability to detect sounds down to -30 decibels - a level 1,000 times below the limit of the human ear.



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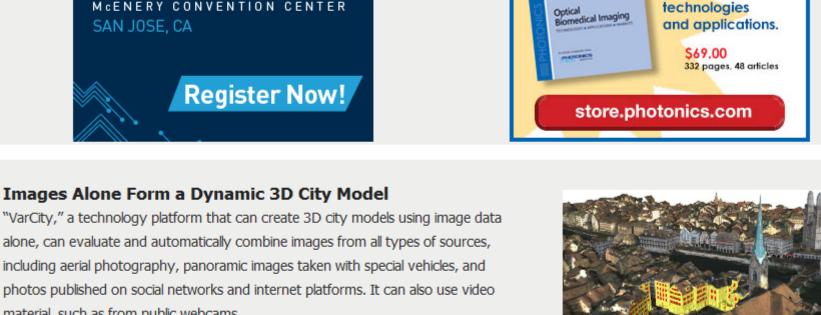


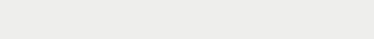
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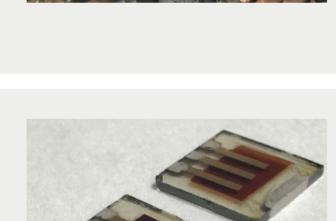




Images Alone Form a Dynamic 3D City Model

3 A B D Read Article Perovskite Stability Could be Improved by Atomic-Scale

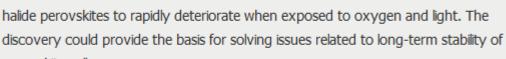
including aerial photography, panoramic images taken with special vehicles, and



The mechanism has been discovered that causes solar cells made with organic lead halide perovskites to rapidly deteriorate when exposed to oxygen and light. The

perovskite cells.

Redesign

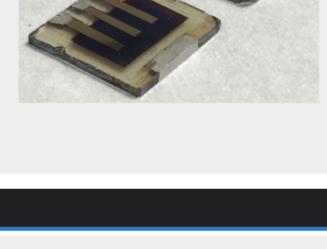


material, such as from public webcams.









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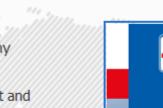
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Tue, May 30, 2017 11:00 AM - 12:00 PM EDT This webinar, presented by WITec, will show the workflow and power of confocal Raman imaging for analyzing the chemical composition, crystallinity, stress,

optoelectronic and structural properties of materials and organisms. It will

introduce state-of-the-art developments in confocal Raman imaging, including

Perspectives in 3D Confocal Raman Imaging

user-friendly automated features and the ability to extract information from the data set more easily, leading to improved analyses. It will also cover recording surface topography of rough and uneven surfaces using WITec's TrueSurface technology. A live data evaluation of measured data sets will demonstrate the power of confocal Raman imaging today. Presenter Thomas Dieing, Ph.D., is director of applications and support at WITec GmbH in Ulm, Germany. Register Now OLED Foldable Displays: The Future of the Display Industry



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Barry Young, CEO of the OLED Association and an authority on OLED lighting and displays, will review concepts and market trends in OLED

technology; then focus the discussion on the timeline and market for foldable displays. He will introduce foldable mobile devices that have

been prototyped and will soon reach the market. He will also discuss the challenges to commoditizing flexible OLED displays, including

manufacturing complexity and cost. Young is CEO of Young Market Research and CEO and president of the OLED Association, an industrybased organization that provides a forum for the interchange of technical and market information.

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