This Week In





sponsor The HyperFine Spectrometer, Brillouin spectroscopy.

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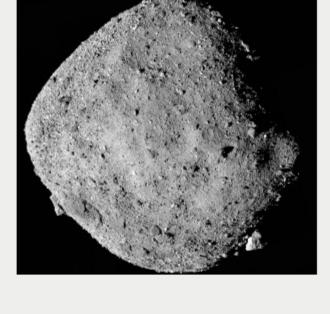
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Top Stories

Once Present Data obtained from the OSIRIS-Rex spacecraft's two spectrometers, the

First Observations of Asteroid Bennu Reveal Water Was

OSIRIS-REx Visible and Infrared Spectrometer (OVIRS) and the OSIRIS-REx Thermal Emissions Spectrometer (OTES), reveal the presence of molecules that contain oxygen and hydrogen atoms bonded together, known as "hydroxyls," on the asteroid Bennu.



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Measurement



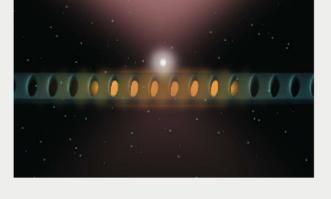




A new device that can measure and control an optically trapped

Device for Measuring Nanoparticles Could Aid in Quantum

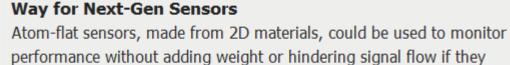
nanoparticle with extreme sensitivity has been developed. Although this approach has been used before with trapped atoms, the researchers said they are the first to use it to precisely measure the motion of an optically trapped nanoparticle made of billions of atoms.





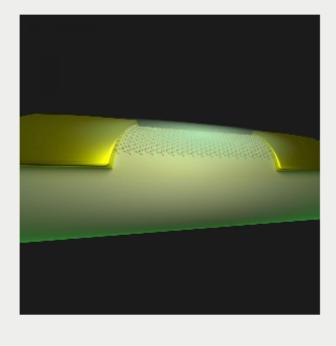






could be seamlessly integrated onto surfaces with different geometries where detection for near-field signal is desired.

Moving 2D Circuits to Any Smooth Surface Could Open



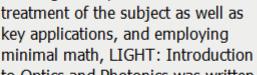






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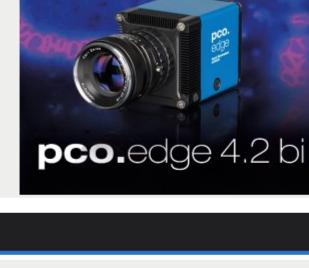
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and trusted sCMOS cameras pool forces with modern back illuminated (bi) sensor technology, pco.edge 4.2 bi and pco.panda 4.2 bi come into the world of science. Both cameras stand out with their nearly perfect quantum

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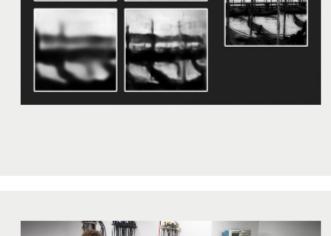




A new imaging technique demonstrates that deep neural networks (DNNs) can be used to illuminate transparent features such as

researchers used a DNN to reconstruct transparent objects from images of the objects taken in near total darkness.

biological tissues and cells in images taken with very little light. The



for Chemical Sensing Researchers at the Vienna University of Technology (TU Wien) are



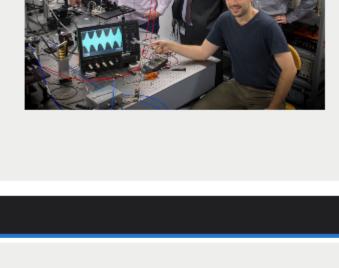




to be created on a single chip in a simple, robust manner.

working with laser frequency combs to enable chemical analysis on a chip. This new patent-pending technology will enable frequency combs

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Seefeld Austria NANOMETA 2019 will bring together the international

Industry Events

nanotechnology, photonics, and materials research communities to discuss recent challenges and results in an informal setting. The

technical program will include invited and selected contributed papers

January 3-6, 2019 - Olympia Sport and Kongresszentrum Seefeld -

in the areas of plasmonics, metamaterials, and metadevices; quantum and topological nanophotonics; new materials for nanophotonics; and optical superresolution. The conference will be organized into two parallel sessions, Nanophotonics and Metamaterials. More Info

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