This Week In





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The HyperFine Spectrometer, Brillouin spectroscopy.

Top Stories

<u>LightMachinery</u>

Researchers Improve Quantum Memory Capacity Using Multiplexing

structured nonclassical light, based on the principle of wavevector multiplexing. The high-capacity memory using laser-cooled atoms can

Researchers have built a quantum memory-enabled source of spatially

store up to 665 quantum states of light simultaneously. According to researchers, their system has a larger capacity than any other existing quantum memory. Read Article 3 A B D

Scanning





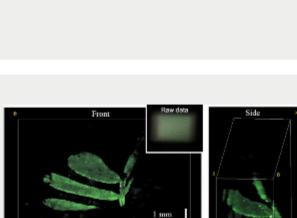
Lensless Camera Creates Detailed 3D Images Without

A new camera, called DiffuserCam, produces 3D images from a single

2D image without using any lenses. The camera consists only of a diffuser placed a few millimeters in front of an image sensor. The

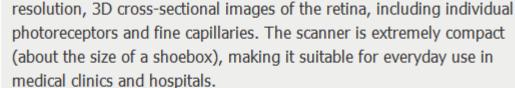
proposed architecture and algorithm for the camera could enable highresolution, light-efficient lensless 3D imaging of large and dynamic 3D samples in an extremely compact package.

Read Article Laser Scanner Could Help Diagnose Disease Before Vision



Loss Occurs



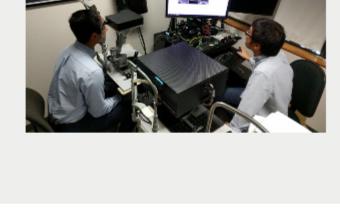


3 (1) (1) (2)

A retinal imaging scanner has been developed that can produce high-

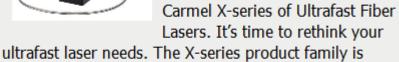
Featured Products Compact Ultrafast Fiber Lasers

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matter.

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specifically developed for multiphoton bio-imaging and



highly dynamic operating conditions.

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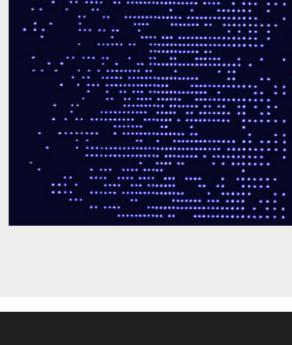
development of self-driving cars.

Magnetism in Action

53-Qubit Quantum Simulator Observes Quantum

Two independent teams of scientists have used more than 50

interacting atomic quantum bits (qubits) to mimic magnetic quantum matter, setting what they believe to be a new record for quantum simulation. In recent years, scientists have controlled 10 to 20 atomic qubits in small-scale quantum simulations.



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is the fastest OCT

spectrometer on

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the market.

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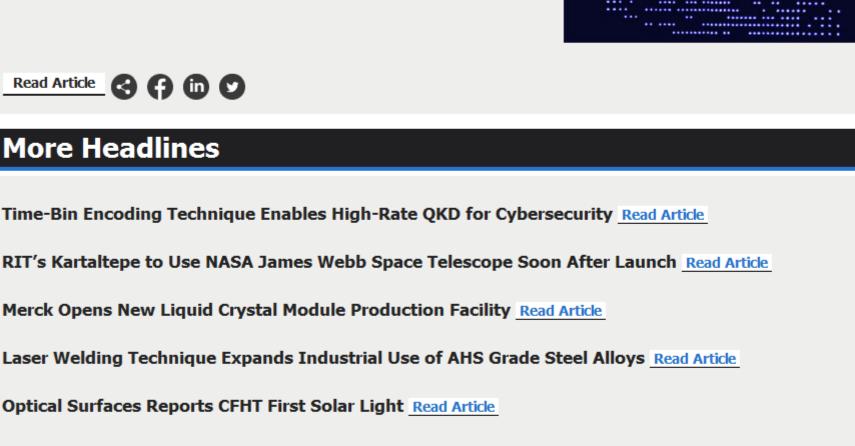
We clearly understand OCT. At 250 kHz, the Cobra-S

Industry Events

Webinars

PITTCON 2018 February 26 - March 1, 2018 - Orange County Convention Center-West - Orlando United States PITTCON will cover analytical chemistry and spectroscopy and will highlight scientific developments made in the fields of food safety, the environmental sciences, bioterrorism and the pharmaceutical industry. The 2018 conference will offer more than 2,000 scientific and educational sessions, including short courses, plenary sessions,

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abstract sessions and technical sessions. The exposition will showcase the latest products, services and equipment for professional excellence in the laboratory sciences.

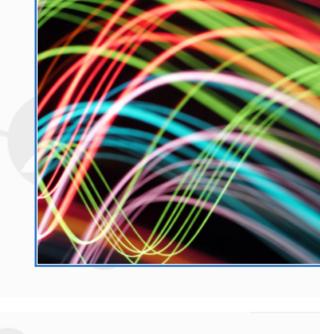
PBM 101: Photobiomodulation Basics

Tue, Jan 9, 2018 1:00 PM - 2:00 PM EST

Ophthalmology) has been actively involved in researching and developing PBM technology for applications within ophthalmology for over 15 years. He is the founder of two companies focused on developing PBM applications, Photospectra and LumiThera. Register Now

photobiomodulation (PBM); and present examples of "real world" applications where this emerging technology is being successfully used. Presenter Robert S. Dotson, M.D., FAAO (board-certified,

The MUSE Microscope for Advancing Light Microscopy Tue, Jan 16, 2018 1:00 PM - 2:00 PM EST This webinar will introduce microscopy with UV surface excitation (MUSE), a novel fluorescence-based, slide-free optical imaging system that provides high-resolution images in minutes without causing damage to fragile tissue samples. Presenter Richard Levenson, M.D., FCAP, will discuss the development of the MUSE microscope and



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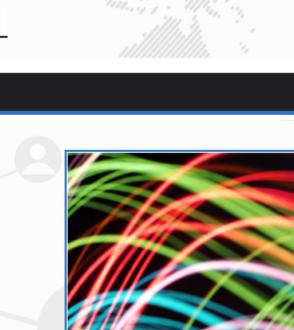
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