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PHOTONICS MEDIA



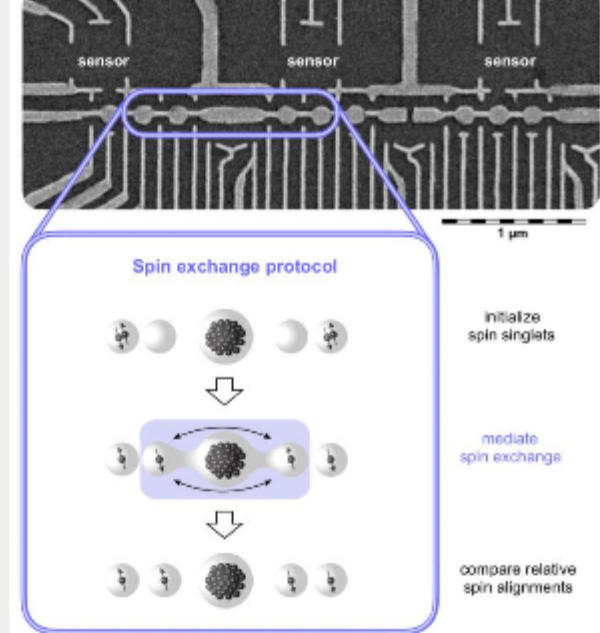
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Quantum Dots Create Distance Between Electron Spins for Quantum Computing

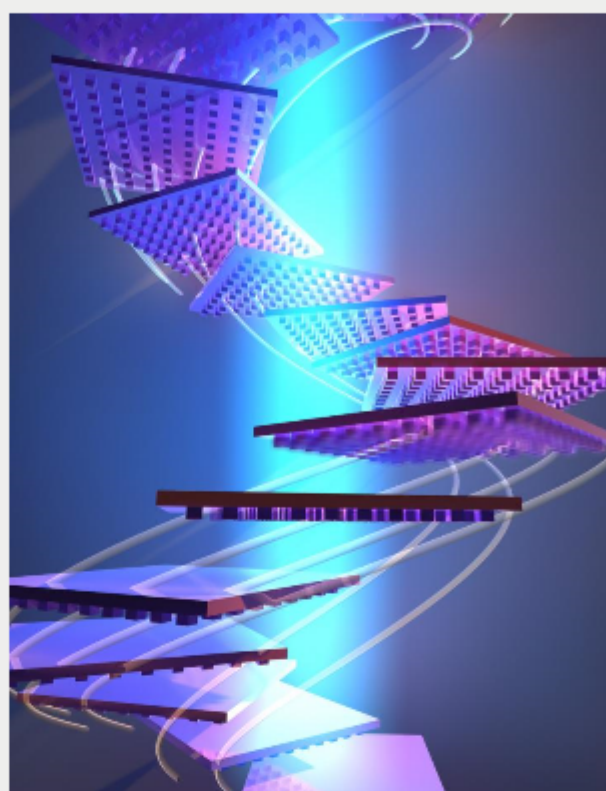
Scientists at the Niels Bohr Institute have realized the swap of electron spins between distant quantum dots. This is significant for future quantum communications because it will allow the distance between the quantum dots to be large enough for integration with traditional microelectronics and, perhaps, a future quantum computer.



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Nanoscale Patterning of Light Manipulates Macroscale Objects

By creating a distinct nanoscale patterning on the surface of an object, researchers at the California Institute of Technology have designed a way to levitate and propel objects using only light. The patterning interacts with light in such a way that the object can right itself when perturbed, creating a restoring torque to keep it in the light beam.



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Finger-Mounted Optical Probe Designed to Improve Breast Cancer Removal

Researchers have developed a wearable probe that enhances the sense of touch by imaging and quantifying the stiffness and elasticity of biological tissue in order to improve the surgical removal of breast cancer. The finger-mounted probe uses a technique called quantitative micro-elastography (QME) to translate the sense of touch into high-resolution images.



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Featured Products

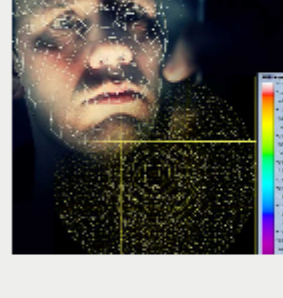


Cameras with Liquid Lens Control

IDS Imaging Development Systems GmbH
 The low-cost uEye LE USB 3.1 Gen 1 board level cameras (6 MP or 18

MP sensor) from IDS are available as variants able to control liquid lenses. Users can easily and conveniently adjust the focus via the user interface or programming interface.

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Near-IR Light Measurement Software

Radiant Vision Systems, Test & Measurement

Part of the Radiant Vision Systems family of automated photometric test and measurement software, the near-infrared light measurement software module (TT-NIRI) provides all of the benefits of Radiant's TrueTest software test sequencing platform to efficiently perform image-based measurements of 940 nm near-infrared (near-IR or NIR) LEDs, lasers, and Diffractive Optical Elements (DOE) used for:

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In a New Quantum Simulator, Light Behaves Like a Magnet

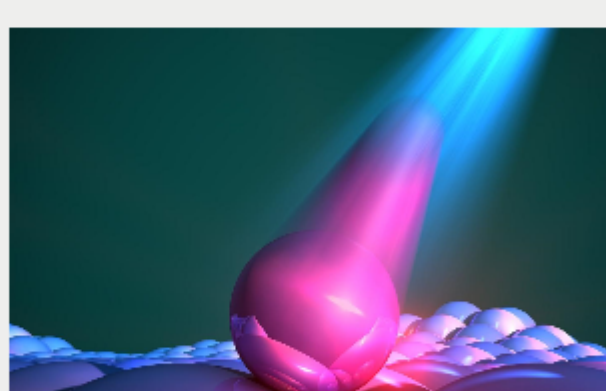
Physicists at École Polytechnique Fédérale de Lausanne have proposed a new quantum simulator — a laser-based device that could be used to study a range of quantum systems. The simulator could help scientists better understand the properties of complex materials under extreme conditions.



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Quantum Dots Demonstrate High Luminescence Efficiency

A new technique for precisely measuring quantum dot performance focuses on how efficiently QDs re-emit the light they absorb. The results suggest that, contrary to long-standing concerns, QDs are defect-tolerant and their emission is comparable to the best single-crystal emissions.



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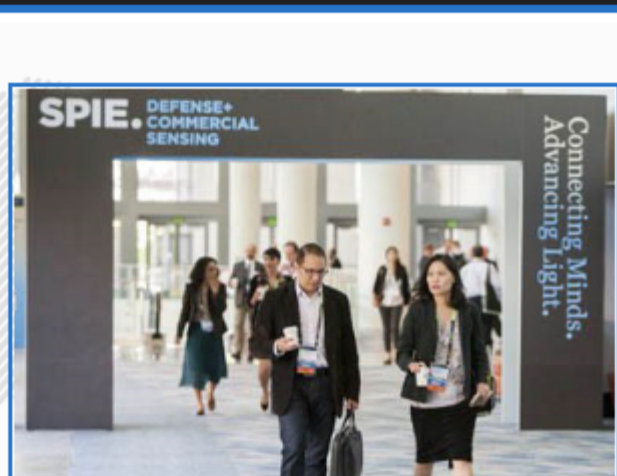
Industry Events

SPIE Defense + Commercial Sensing 2019

April 16-18, 2019 - Baltimore Convention Center - Baltimore United States

Photonics Media Booth: 433

SPIE Defense + Commercial Sensing 2019 is the leading conference on sensors, IR technology, laser systems, spectral imaging, radar, and lidar. With over 4,500 attendees, it is the premier sensing, imaging, and photonics technologies event for defense and commercial applications. SPIE Defense + Commercial Sensing 2019 will offer numerous opportunities to share your latest technical advancements, find new business opportunities, network with others, and more.



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