

This Week In PHOTONICS

PHOTONICS MEDIA



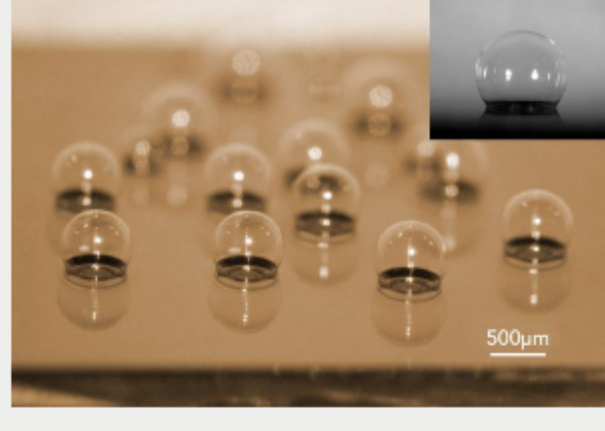
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CORNING | Advanced Optics
Solving the world's toughest optical problems... Materials, Systems and Design

Top Stories

Chip-Based Optical Sensors Developed with Incredible Sensitivity

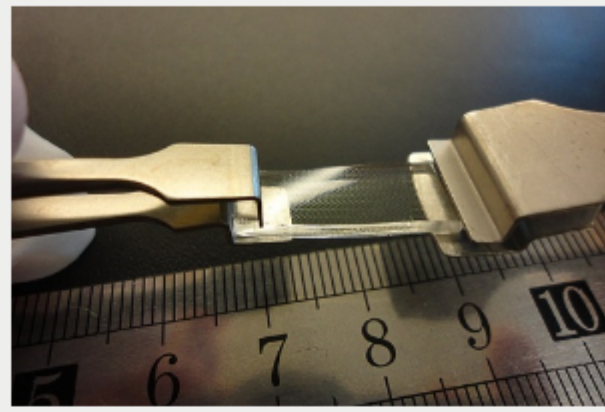
An optical whispering gallery mode resonator can spin light around the circumference of a tiny sphere millions of times, creating an ultrasensitive microchip-based sensor for multiple applications. The type of sensor that consists of solid spheres is not compatible with microfabrication methods. However, researchers developed a way to grow on-chip glass microspherical shells that potentially can be used for motion, temperature, pressure or biochemical sensing.



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Flexible, Stretchable Photonics Devices Made with Chalcogenide

A method for making photonic devices that can bend and stretch without damage could find uses in cables to connect computer devices, or in diagnostic and monitoring systems that could be attached to the skin. Researchers used a specialized kind of glass called chalcogenide for their device.



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Wave Mixing on Artificial Atom Could Be Used for Building Quantum Electronics

Scientists have demonstrated quantum wave mixing (QWM) on a single superconducting artificial atom. In their exploration of the different regimes of QWM, they showed that superposed and coherent states of light were mapped into a quantized spectrum of narrow peaks, and they found that the number of peaks was determined by the number of interacting photons.



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Featured Products



PhaseCam 6000 Dynamic Laser Interferometer

4D Technology Corporation

The PhaseCam® 6000 is an extremely compact and lightweight laser interferometer for measurement of optics and optical systems. With an easy-to-position, fiber-coupled measurement head and motorized controls, the PhaseCam 6000 is ideal for on-machine metrology, remote mounting in measurement towers or pressure vessels, and other challenging applications and environments.

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Successful Advanced Technology Commercialization for Everyone!

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A new, 12-lecture course from successful scientist-turned-businessman David Krohn will show you how to identify market opportunities and develop a roadmap for successful commercialization. Commercialization of Innovative Technology through Entrepreneurship – CITE – demonstrates how to move advanced technology into successful commercial products.

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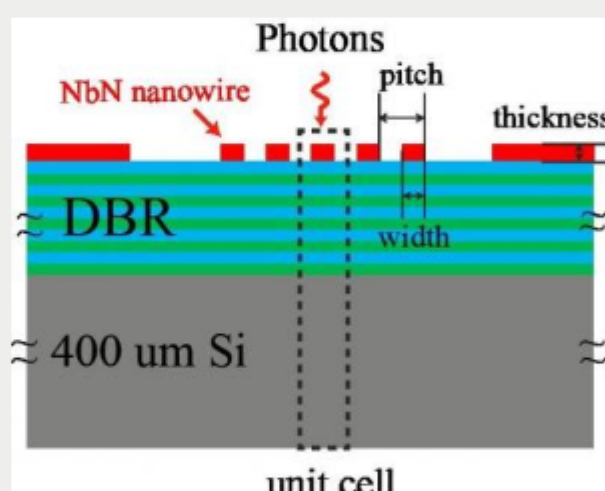
The world's smallest FT-IR spectrometer, a lidar system for autonomous vehicles, and a smartphone add-on sensor for noncontact bioimaging — these products are among 30 finalists vying for Prism Awards in January. Marking its 10th year in 2018, the Prism Awards for Photonics Innovation program recognizes the industry's top innovators and groundbreaking technology.



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Superconducting Nanowire Single-Photon Detector Sets Efficiency Record

Researchers have demonstrated the fabrication and operation of a superconducting nanowire single photon detector (SNSPD) with detection efficiency that they believe is the highest on record. The research team believes that such results could pave the way for the practical application of SNSPD for quantum information and other high-end applications.



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Industry Events

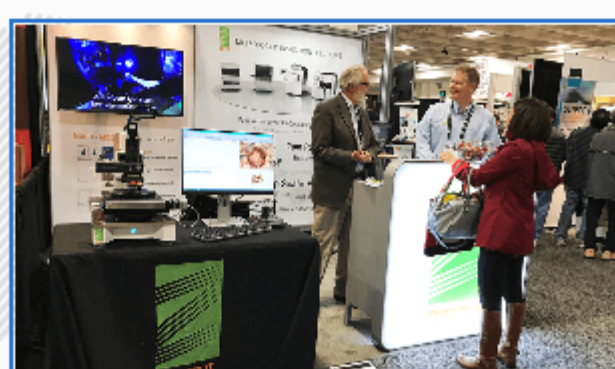
SPIE Photonics West 2018

January 27 - February 1, 2018 - Moscone Center - San Francisco United States

Visit us at Booths 846/847

SPIE Photonics West 2018 is the flagship event for the photonics industry. Featured technologies will include: Lasers and other light sources; cameras and CCD components; fiber optics; high speed imaging and sensing; optical materials, substrates and coatings; and much more. With more than 70 courses and workshops to choose from, there is one to fit each individual's needs. Program tracks include: Photonic therapeutics and diagnostics; biomedical spectroscopy, microscopy and imaging; laser sources; nonlinear optics and beam guiding; optoelectronic materials and devices; photonic integration; semiconductor lasers and LEDs; and more.

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