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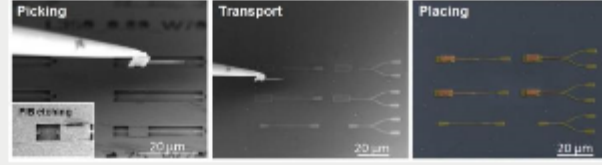
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Top Stories

Integration of Quantum Emitters to Photonic Device Could Enable Quantum Circuits

Researchers integrated silicon photonic devices with a solid-state single photon emitter, using a hybrid approach that combines silicon photonic waveguides with quantum dots. The waveguides were used for manipulating light, and the InAs/InP quantum dots were used to generate light efficiently at wavelengths spanning the O-band and C-band.

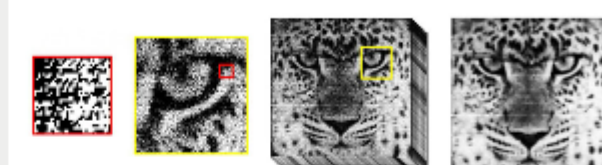


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Next-Gen Image Sensor Delivers High-Quality, Low-Light Imaging

A new imaging technology has been developed that can capture and count single photons with resolution as high as one megapixel and as fast as thousands of frames per second. Called the Quanta Image Sensor, or QIS, this technology enables highly sensitive, high-quality, easy-to-manipulate digital imaging as well as computer vision and 3D sensing, even in low-light situations.

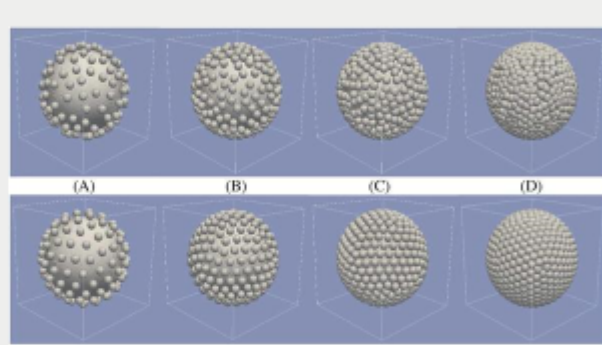


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Team Studies Optical Properties of Plasmonic Nanovesicles Using Computational Approach

An on-demand, light-triggered drug release method, known as vesicular assembly of small plasmonic nanoparticles, or plasmonic vesicle, could be used to treat disease; support the study of the nervous system in real time; provide insight into how the brain works; and provide rapid clearance of small inorganic particles from the body.



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Featured Products

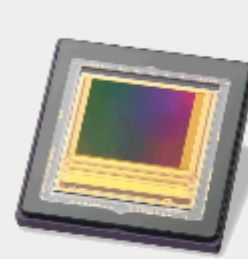


Superresolution Microscopy Poster

Photonics Media
With interest in the superresolution microscopy field growing rapidly, the editors of BioPhotonics magazine – in collaboration with authors of the poster – created a poster with readers in mind that is suitable for lab, classroom and office. It features visually stunning, high-resolution images that reveal never-before-seen worlds at the sub-cellular level.

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BORA 1.3M Time of Flight Sensor

Teledyne e2v (UK) Ltd.
The 3D Time of Flight (ToF) BORA sensor is a 1.3 million pixel CMOS image sensor, designed with

Teledyne e2v's proprietary CMOS imaging technology. It is ideal for systems operating at short or mid distances and ranges. It features an optimized multi-integration mode together with an electronic global shutter.

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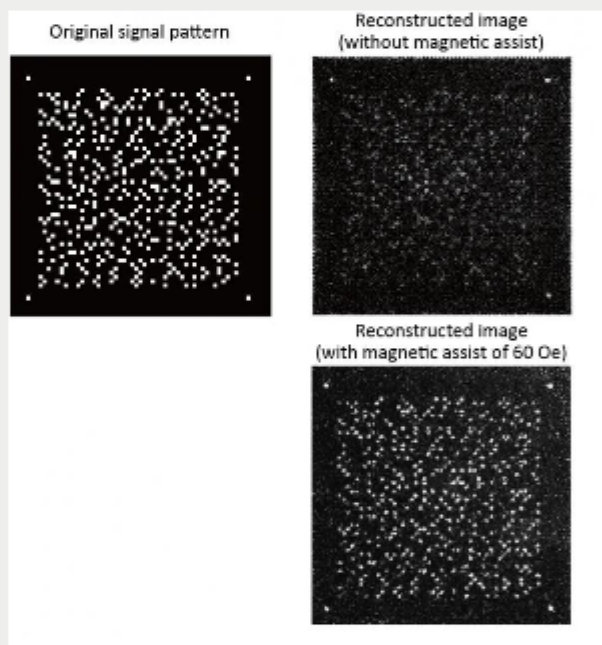
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More News

Improving Quality of Hologram Memory for Use in Optical Data Storage

A research team has applied magnetic assist recording technology to magnetic-holographic memory, reducing recording energy consumption and achieving non-error data reconstruction. Their work could pave the way for practical application of magnetic-holographic memory for storing large volumes of data at ultrahigh recording density and at ultrahigh speed.



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Optofluidic Smart Glass Heats and Cools Efficiently, Inexpensively

New switchable window technology using optofluidic smart glass could someday be used to keep our vehicles, businesses and homes comfortable regardless of the temperature outside. This technology contains a plastic panel with a retroreflective pattern of structures. Rather than reflecting light in all directions, like a mirror, the retroreflective panel reflects light back in the direction it came from.



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Industry Events

Medical Imaging 2018

February 10-15, 2018 - Marriott Marquis Houston - Houston United States

SPIE Medical Imaging 2018 will offer focused, face-to-face instruction from some of the leading minds in medical imaging research and applications. Over 900 papers, across nine conferences, will cover the latest information in image processing, perception, registration informatics and segmentation, as well as in digital pathology, tomography, computer-aided diagnosis and ultrasound. Join your peers in group discussions around focused technical topics, various workshops, live demos, and at the interactive poster sessions.

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