

This Week In PHOTONICS

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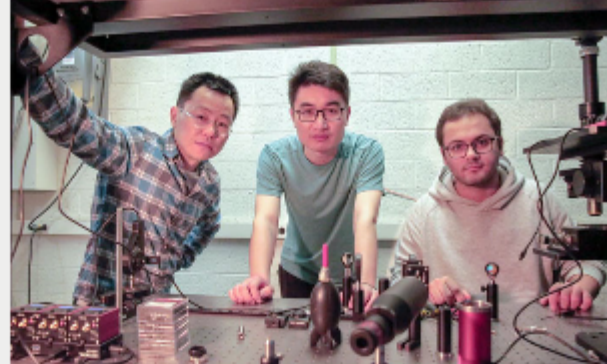
Recognizing the most innovative new products in optics and photonics.

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Top Stories

Smart Glass Could Offer a New Route to Machine Vision

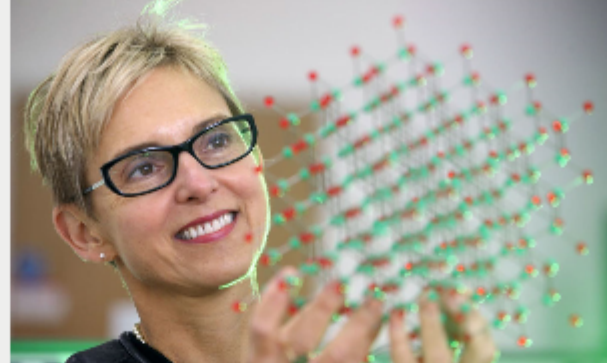
A new type of smart glass, developed by a team at the University of Wisconsin-Madison, leverages optical reflection to recognize images without requiring sensors, circuits, internet connection, or external power sources. Everything needed for image recognition is condensed into single pieces of glass.



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Low-Noise Avalanche Photodiode Could Advance Data Communications

A new development in semiconductor technology, leading to an ultrafast, highly sensitive avalanche photodiode (APD) with extremely low excessive noise, could improve data transmission rates and/or enable longer transmission distances.



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Deep Learning Technique Could Speed the Search for Galaxy Clusters

Deep-CEE, a deep learning technique developed by scientists at Lancaster University, can efficiently localize and classify objects in wide-field color images to identify galaxy clusters in deep space. Deep-CEE's developers used Abell galaxy clusters as the ground-truth labels in color images to develop an artificial intelligence (AI) model based on neural networks.



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Featured Products

Lasers in Industry

Photonics Media Photonics Media has gathered articles and other valuable resources into a guide to the current use of lasers in industry, a reference tool and a resource for learning. This book is for anyone

working on, implementing or considering the application of lasers for and in industrial settings for materials processing, quality control and production.

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INDUSTRIAL LASER SAFETY



Industrial Laser Safety at a Glance

Photonics Media A straightforward guide, offering clear, real world explanations of laser safety elements and the necessary background materials for the industrial laser environment. It raises awareness of the dangers of laser exposure, the proper tools

needed to protect oneself from the potential hazards of industrial lasers, and the steps that must be taken to ensure a safe environment for all workers.

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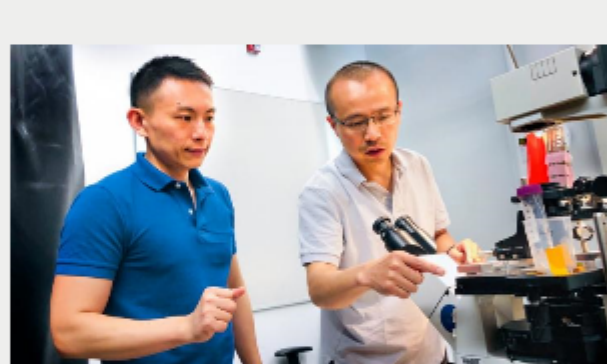
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More News

Superresolution Imaging Method Aids in Water Decontamination

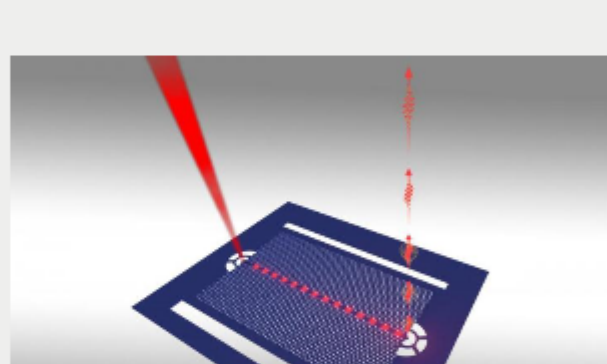
An imaging technique developed by Cornell University researchers shows promise as a tool for decontaminating water. The new approach allows imaging of catalytic reactions at the nanoscale in real time to help scientists learn the optimal size and shape for the most effective catalyst particles.



[Read Article](#)

Squeezing Quantum Dots to Tune Their Wavelength, Allow Interaction

A technique for squeezing quantum dots, developed at the U.S. Naval Research Laboratory (NRL), could enable many quantum dots to interact with each other in a quantum network. The new technique provides a way to realize quantum dots that are tuned precisely in both their wavelength and position.



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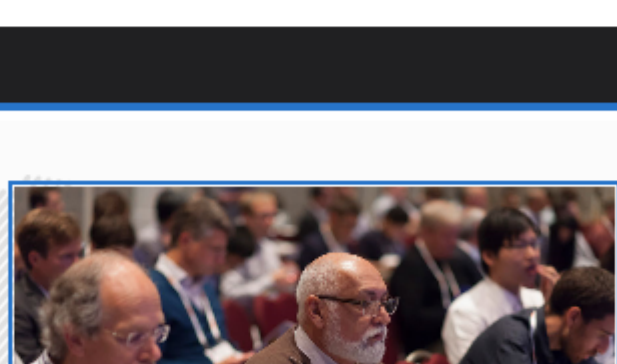
[Partnership Between ams and MEGVII to Offer Face Recognition](#) [Read Article](#)

Industry Events

OSA Advanced Photonics 2019

July 29 - August 1, 2019 - Hyatt Regency San Francisco Airport - Burlingame United States

The OSA Advanced Photonics Congress will address the many aspects of photonic device research and development and their use in networks. The three plenary speakers will cover embedded photonics in high-performance systems; solar electricity; and next-gen space-based laser communications. Other topics that will be addressed in this year's program include integrated photonics, nanophotonics, novel optical materials and devices, photonic networks, and signal processing in photonic communications. Image courtesy of OSA, The Optical Society.



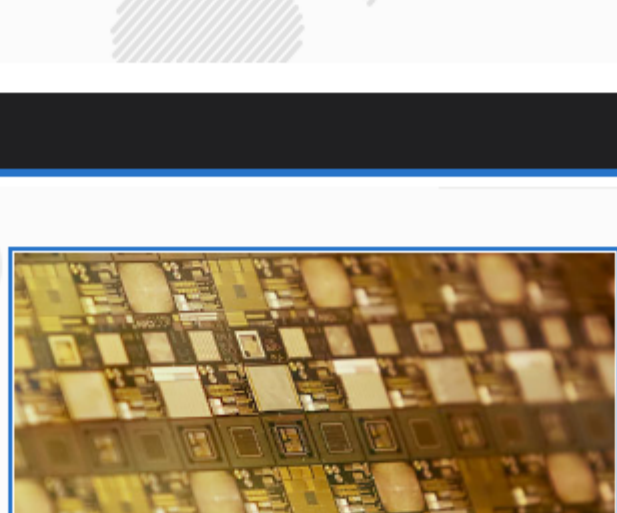
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Webinars

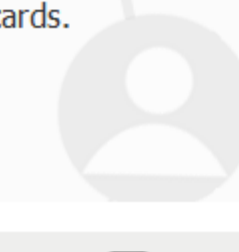
Optical Metrology Solutions for the Semiconductor and Microelectronic Industries

Wed, Jul 31, 2019 11:00 AM - 12:00 PM EDT

This webinar, presented by Sensofar Metrology, will discuss specific analysis for QC in PCB applications. It will also cover critical digital processing in QC applications. It will also cover critical analysis for QC in PCB applications. It will also cover critical digital processing in QC applications. It will also cover critical digital processing in QC applications.



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