

This Week In PHOTONICS

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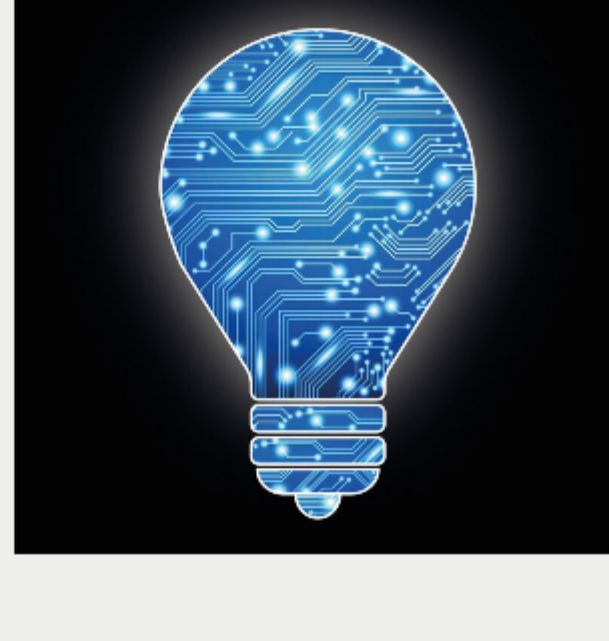
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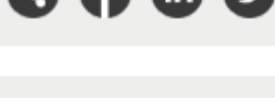
Top Stories

Machine Learning Speeds Discovery of New Host Materials for LED Lighting

A machine learning algorithm developed at the University of Houston was able to predict the properties of more than 100,000 compounds and determine those most likely to be efficient phosphors for LED lighting.

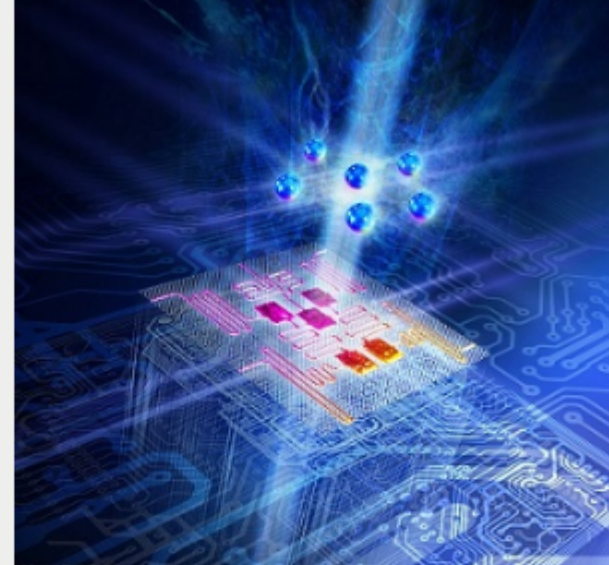


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Quantum Technologies Foster New Initiative in Europe

The European Commission announced the first winners of the Quantum Flagship today. The €1 billion (\$1.1 billion) funding initiative will support large-scale and long-term research and innovation projects directed at transferring quantum physics research from the lab to the market through commercial applications.

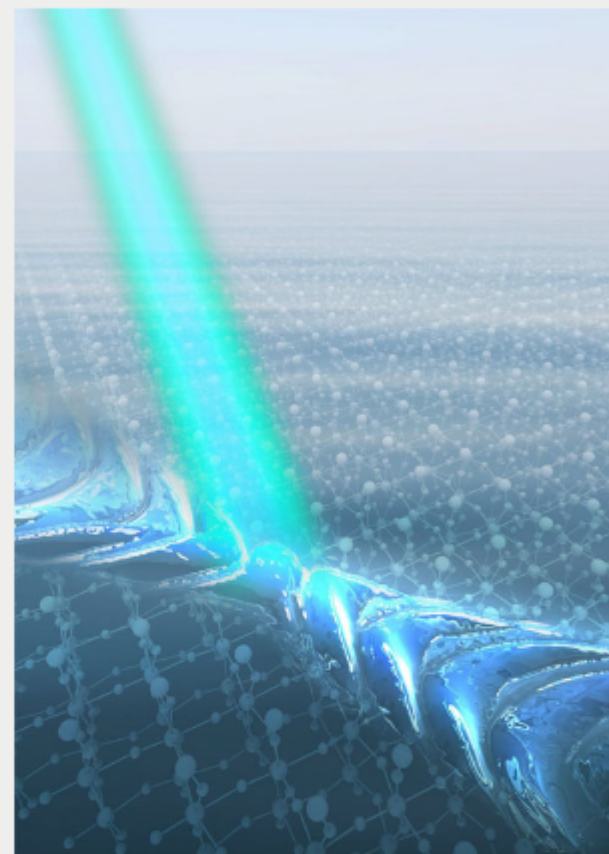


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Directional Character of Nanolight Could Improve Efficiency of Nanophotonic Devices

Squeezed light in the nanoscale ("nanolight") was found to propagate only in specific directions along thin slabs of a natural anisotropic 2D material, molybdenum trioxide. The current work is the beginning of a series of studies that will be focused on directional control and manipulation of light using ultralow-loss polaritons at the nanoscale.



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Featured Products



pco.edge 4.2 bi: Back Illuminated sCMOS

PCO-TECH Inc.

Innovations aren't always about having that one big new idea. Unique technology also comes from evolution, combining existing and new technology. When PCO's tried

and trusted pco.edge series pools forces with modern back illuminated (bi) 16 bit sCMOS sensor technology, we call the result: pco.edge 4.2 bi.

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LIGHT: Introduction to Optics and Photonics, Second Edition

Photonics Media

Offering a comprehensive treatment of the subject as well as key applications, and employing minimal math, LIGHT: Introduction to Optics and Photonics was written with readers in mind. This textbook is for beginning students of optics

and photonics in high school, community college, and university STEM courses.

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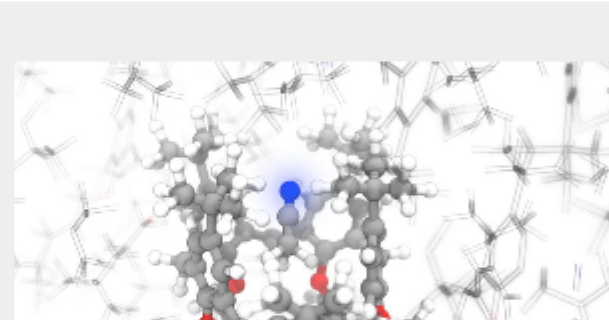
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More News

ML and NMR Spectroscopy Predict Location of Atoms in Powdered Solids

One research team, from Ecole Polytechnique Fédérale de Lausanne (EPFL), is using machine learning (ML) to quickly predict chemical shifts of molecular solids and their polymorphs to within density functional theory (DFT) accuracy.



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Nanophotonic Optical Gyroscope Is Smaller Than a Grain of Rice

Engineers have created an optical gyroscope that is 500 times smaller than the current state-of-the-art fiber optic device, yet able to detect phase shifts that are 30 times smaller than existing systems.



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More Headlines

US Navy Granted Patent for Metal Metamaterial [Read Article](#)

Plymouth Researchers Awarded \$1.3M Grant for Light-Based Space Travel [Read Article](#)

NASA Gears Up for Forest Study [Read Article](#)

Morgridge Institute to Collaborate with UCSD, Sloan Kettering on NIH 'High-Risk, High-Reward' Project [Read Article](#)

OSA Announces Plans for Climate Change Global Network [Read Article](#)

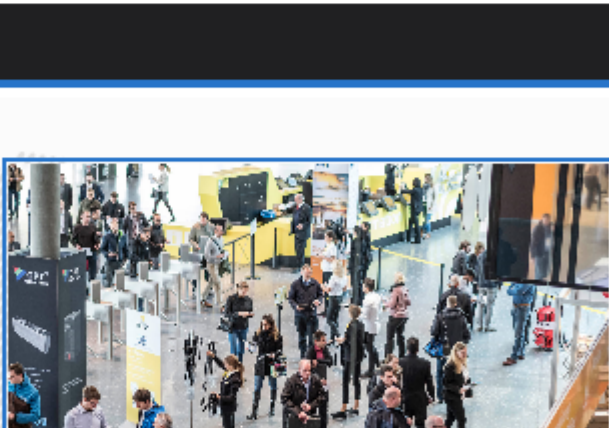
Industry Events

VISION 2018

November 6-8, 2018 - Stuttgart Trade Fair Centre - Stuttgart Germany

At VISION 2018, you will learn about the innovative possibilities presented by current and upcoming machine vision technologies.

More than 460 world-leading exhibitors will be on hand to unveil the latest systems and components and provide an overview of key technologies related to Industry 4.0 and automated processes. This top international trade fair will inspire you with plenty of examples of real-world scenarios. While you gather ideas for machine vision applications, you will have the opportunity to discuss your activities and requirements with experts in your field.



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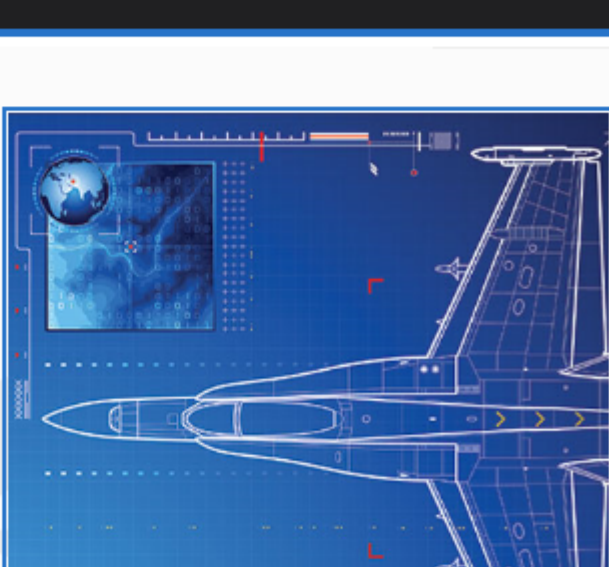
Webinars

Writing an RFQ That Delivers the Right Product at the Right Price

Tue, Nov 6, 2018 1:00 PM - 2:00 PM EST

Learn how to write an RFQ that delivers the right product at the right price. This webinar, presented by IRD Glass, will guide you through the process of writing an effective RFQ for your custom optics project. Presenter Michelle deCastro, national sales manager for IRD Glass, will discuss the items to cover in your RFQ, including: application, product type, volume potential and schedule, material type, dimensions, surface quality, coatings; and assembly, cleaning, and packaging. You will learn how to write an RFQ that addresses your requirements in both the areas of quality and cost.

[Register Now](#)

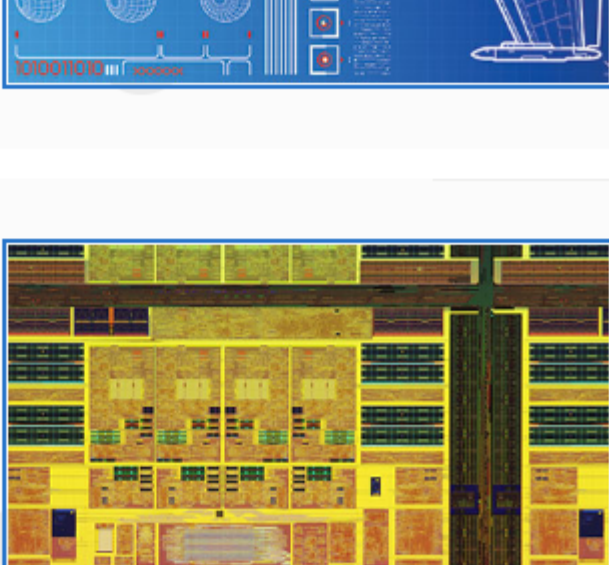


Compact Metadevices for Flat Optical Components

Wed, Nov 7, 2018 1:00 PM - 2:00 PM EST

This webinar will discuss inverse-design methods for creating compact metadevices and the use of additive manufacturing for making thin optical components. Professor Koray Aydin will describe his lab's platform for combining inverse electromagnetic design algorithms with additive manufacturing to fabricate millimeter-wave metadevices. Aydin will further show how this platform can be applied to the design and fabrication of electromagnetic and photonic metadevices spanning microwave to optical frequencies. This webinar is sponsored by Knight Optical.

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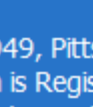
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