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Top Stories

Prism Award Winners Take Center Stage

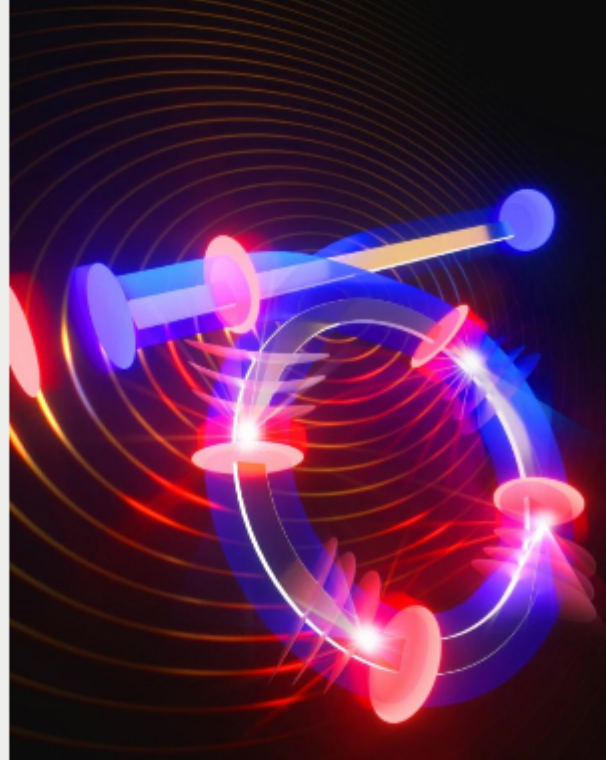
Amid the bustle of Photonics West, some of the industry's top innovators gathered on Feb. 6 to honor the best products and advancements at the "Oscars of the photonics industry" — the Prism Awards for Photonics Innovation.



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Low-Linewidth Laser at Photonic Chip Scale Is Quiet Enough for Precise Scientific Applications

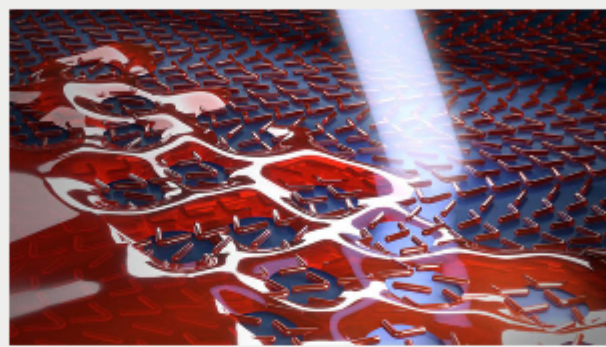
Researchers have developed a chip-scale laser capable of emitting light with a fundamental linewidth of less than 1 hertz (Hz) — a frequency that is quiet enough to allow scientific applications requiring highly coherent lasers to be moved to the chip scale.



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A New Way to Fabricate High-Performance Optical Metasurfaces for Use in Photonic Circuits

A new way to produce glass metasurfaces that can be either rigid or flexible, could be used to fabricate all-dielectric optical metasurfaces quickly, at low temperatures, and with no need for a cleanroom. These metasurfaces could be used to build next-generation photonic circuits.



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Featured Products



Back Illuminated sCMOS by PCO

PCO-TECH Inc.
Unique technology comes from evolution, combining existing and new technology. When PCO's tried and trusted sCMOS cameras pool forces with modern back illuminated (bi) sensor technology, pco.edge 4.2 bi and pco.panda 4.2 bi come into the world of science. Both cameras stand out with their nearly perfect quantum...

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Uniform Coatings for Cylindrical Parts

Deposition Sciences Inc. (DSI)
Obtaining uniform coatings on tubes and cylindrical parts is inherently challenging due to the line of sight nature of most thin film deposition processes, but can be accomplished in sputtering by utilizing innovative tooling techniques. Tubes and cylinders are used in a range of applications, including solar simulation...

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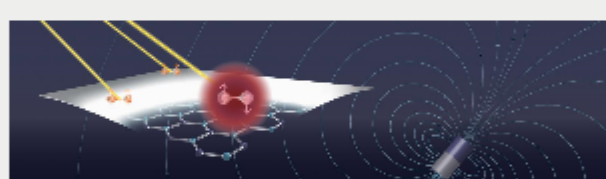
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More News

2D Material with Optically Addressable Spin Defects Shows Promise as Host for Quantum Emitters

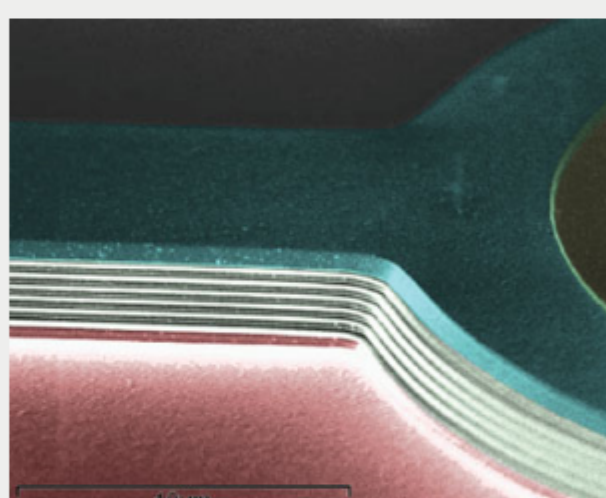
Researchers at the University of Pennsylvania have demonstrated a new hardware platform based on isolated electron spins in a 2D material. The electrons are trapped by defects in sheets of one-atom-thick semiconductor material (hexagonal boron nitride, or h-BN).



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DBR Suppresses Spectral Crosstalk for Improved IR Imaging Performance

Northwestern University engineers found a way to suppress spectral crosstalk between dual-band long-wavelength photodetectors. Their discovery could reduce image distortion and improve IR imaging performance, potentially opening the door for a new generation of high spectral-contrast IR imaging devices.



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More Headlines

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Smart Glass Sets Sights on Smart Homes [Read Article](#)

CEA-Leti Develops AR Retinal Projection Technology [Read Article](#)

VI Systems Awarded Two Optoelectronic Patents [Read Article](#)

Industry Events

PITTCON 2019

March 17-21, 2019 - Pennsylvania Convention Center - Philadelphia United States

Photonics Media Booth: 2512

Pittcon is the world's leading annual conference and exposition on laboratory science. It attracts attendees from industry, academia, and government from over 90 countries worldwide. Having grown beyond its roots in analytical chemistry and spectroscopy, Pittcon has evolved into an event that now also serves a diverse constituency encompassing life sciences, pharmaceutical discovery and QA, food safety, environmental, bioterrorism, and other emerging markets. Proceeds from Pittcon fund science education and outreach at all levels, from kindergarten through adult.

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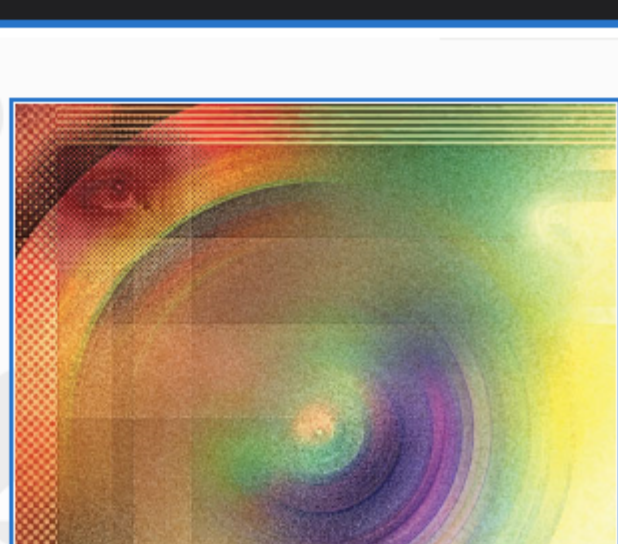
Webinars

Emergence of Freeform Optics in Imaging Systems: A Leap Forward

Wed, Feb 27, 2019 1:00 PM - 2:00 PM EST

This webinar will provide an overview of freeform optics. Following a brief introduction, the presenter will discuss the historical context and applications for freeform optics. She will then present mathematical descriptions and the latest methods of optical design. As time allows, she will discuss some of the primary fabrication techniques and provide a short update on freeform metrology. This webinar is sponsored by Greenlight Optics and LightPath Technologies.

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