

This Week In PHOTONICS

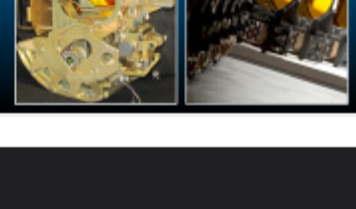
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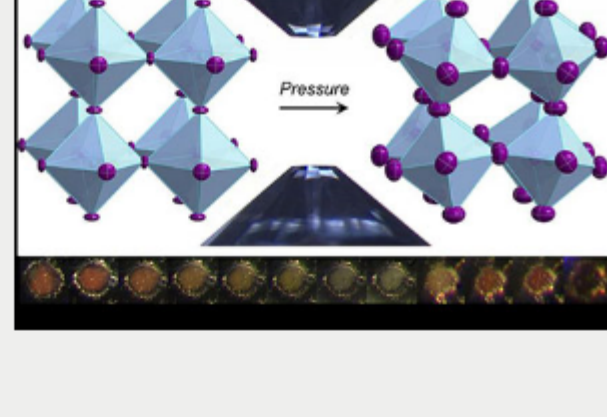
Corning Advanced Optics
EOIR Solutions – Prototype through Production



Top Stories

Pressure Tunes Absorption Properties of Perovskite Solar Cells

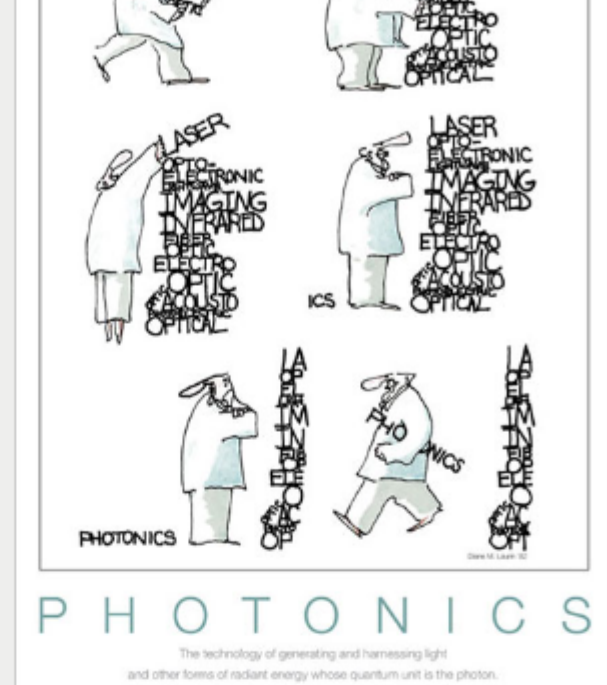
The voltage and electronic conductivity of perovskite solar cells have been shown to increase under high pressure. The findings suggest that either chemical or mechanical compression could enable tunable Perovskites — metallic crystalline structures — come in several structures, including hybrids made of lead, iodine or bromine, and organic compounds. The inexpensive materials have potential applications in LEDs and lasers, but one of the most popular areas of research involves solar cells.



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Laurin Publishing Announces Poster Series

Laurin Publishing Co., whose titles include Photonics Spectra and BioPhotonics magazines and the Photonics Buyers' Guide, announces the availability of two posters featuring art that takes a lighthearted look at the early days of the photonics industry. The unique and original drawings of Diane M. Laurin appeared in the pages of Photonics Spectra magazine and its predecessor, Optical Spectra, in the 1970s and 1980s.



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Fluence Demonstrates Advanced LED Grow Lights

Fluence Bioengineering, a photobiology design and manufacturing company, has developed an indoor and greenhouse LED lighting system with an efficacy above 2 μmol/J according to replicate collaborative testing conducted by Rutgers University and Utah State University. Testing found that the VYPRx PLUS lighting system had a 21 percent and 58 percent greater efficacy than the leading 1000-W double-ended and single-ended high pressure sodium (HPS) fixtures respectively.



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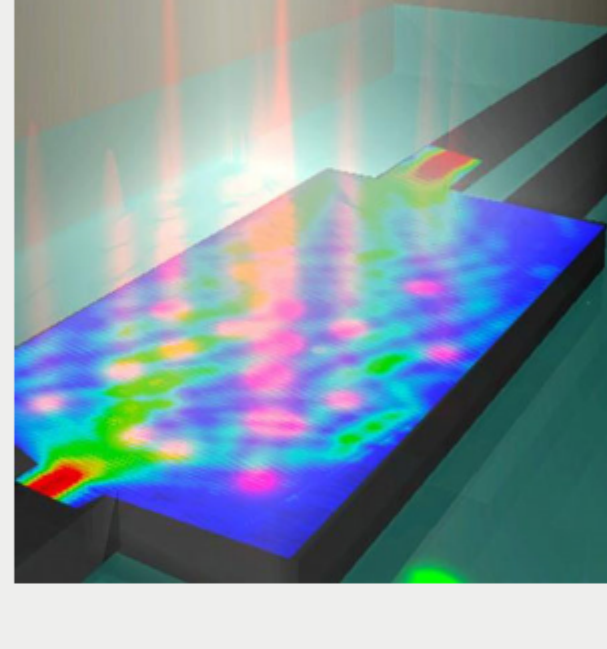


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Reconfigurable Silicon Photonic Circuits Provide Control of Light Patterns

The ability to control light in a silicon chip could enable novel applications in programmable photonics circuits, including applications for optical testing and data communication. The development of flexible integrated-optic circuits that can be externally controlled was made possible using an all-optical spatial light modulator (SLM) to reconfigure photonics devices, making them capable of routing the flow of light.



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JWST's Giant Golden Mirror is Unveiled

As part of the integrating and testing of the James Webb Space Telescope (JWST), NASA engineers have unveiled the giant golden mirror of the IR telescope — it is heralded as the largest mirror yet sent into space. The 18 mirrors that make up the primary mirror were individually protected with black covers when they were assembled on the telescope structure, and now, for the first time since the primary mirror was completed, the covers have been lifted.



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Featured Video

OSA Centennial - David Reitze - California Institute of Technology

The Optical Society members share their reflections on 100 years of optics innovation, what inspired their interest in the field and how OSA has impacted their career.



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Image Science Ltd.
Image Science provides custom MTF systems for the following wavebands:

Visible, SWIR, MWIR, LWIR and UV. Our systems combine high accuracy with fast measurement speed.

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Photonic Detectors & Integrated Modules

Opto Diode Corporation
New - An expanded line of silicon photodiodes and IR detectors for applications requiring a higher level of

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ARW Optical Corporation manufactures custom, standard and OEM optical prisms for the UV to IR region. Provides rapid prototyping through volume production

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AccuFiz SIS Laser Interferometer

4D Technology
The AccuFiz Laser Interferometer is compact, lightweight and extremely rigid, for maximum stability in any orientation or

environment.

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Industry Events

CLEO 2016

June 5-10, 2016 - The Optical Society (OSA) - San Jose Convention Center - San Jose, CA

Photonics Media Booth: 2335

CLEO (Conference on Lasers and Electro-Optics) serves as the premier international forum for scientific and technical optics, uniting the fields of lasers and optoelectronics by bringing together all aspects of laser technology, from basic research to industry applications. CLEO presents a world-renowned peer-reviewed program and offers high quality content from five core event elements: Fundamental Science, Science & Innovations, Applications & Technology, Market Focus, and the CLEO EXPO.



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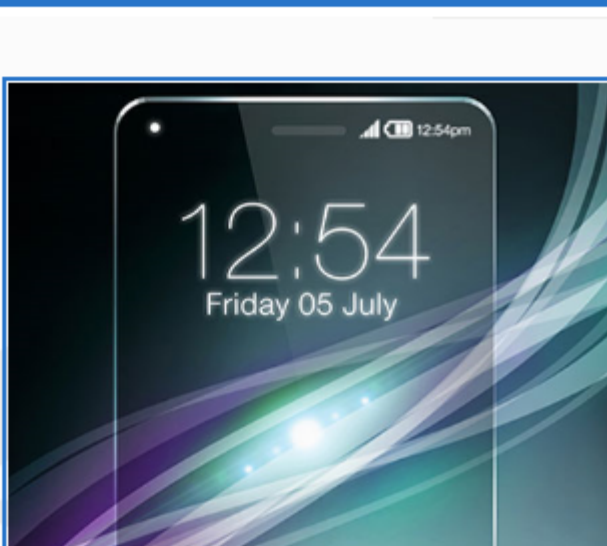
Webinars

OLED Display Technology Update and Forecast

Thu, May 12, 2016 1:00 PM - 2:00 PM EDT

Barry Young, CEO of the OLED Association and a leading authority on the technology, presents a broad look at display applications utilizing OLEDs, including their history and use, the attributes of OLED displays, potential future applications, and the challenges facing the development and application of OLED lighting. He will conclude the presentation with a brief update on OLED technology. Mr. Young is also CEO of Young Market Research (YMR) and serves as its primary-lighting analyst.

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