

# This Week In PHOTONICS

PHOTONICS MEDIA



sponsor



ALL THINGS PHOTONICS

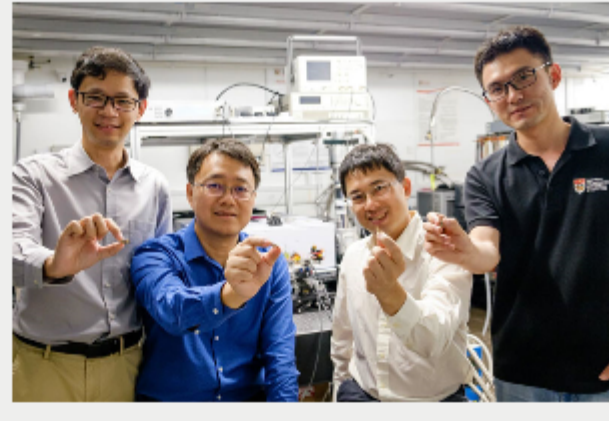
A podcast from Photonics Media



## Top Stories

### Electrically Driven Topological Laser Bypasses Manufacturing Imperfections

Researchers from Nanyang Technological University and the University of Leeds have created what they believe to be the first electrically driven topological laser. The use of topologically protected photonic modes enables this laser to efficiently bypass manufacturing defects as well as corners.

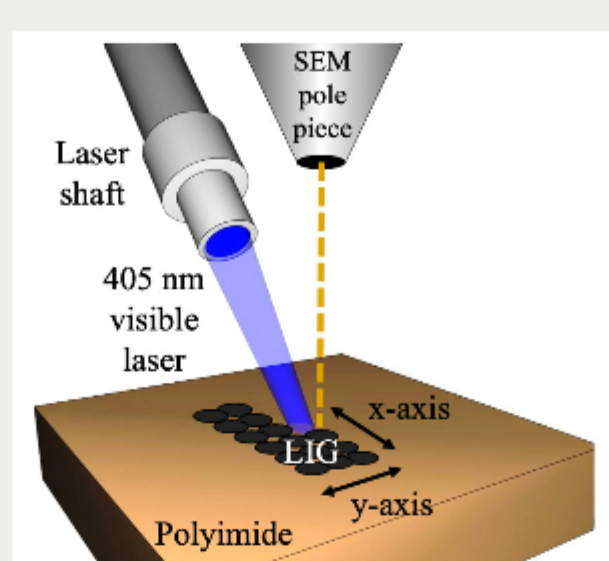


[Read Article](#)



### Graphene Formed Under Microscope Is Small Enough for Electronics

Scientists at Rice University; the University of Tennessee, Knoxville; and Oak Ridge National Laboratory used a small, visible beam mounted to a scanning electron microscope (SEM) to form laser-induced graphene (LIG), a multifunctional graphene foam that is typically direct-written with an infrared (IR) laser into a carbon-based precursor material.



[Read Article](#)

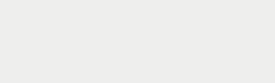


### Sequestering Lead in Perovskite Cells Could Make Them Safer for Photovoltaics

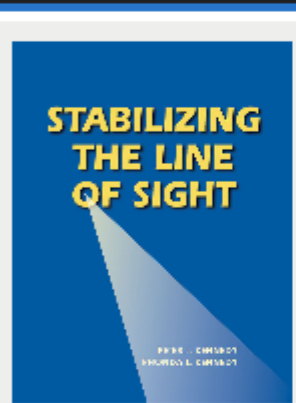
Many high-performing hybrid perovskite solar cells contain water-dissolvable lead, raising concerns over potential leakage from damaged cells. A new technique to sequester the lead used to make the cells could make them more practical for use in photovoltaic technologies.



[Read Article](#)



## Featured Products



### Stabilizing the Line of Sight

Photonics Media

In *Stabilizing the Line of Sight*, authors Peter J. and Rhonda L. Kennedy provide a methodology and an example for executing a successful end-to-end line-of-sight (LOS) design. Comprehensive in scope, this book will give readers a better understanding of the relationships between the various engineering disciplines that are required for successful LOS control.

[Visit Website](#)

[Request Info](#)



### New Stainless Steel Mirror Mount

OptoSigma Corp.

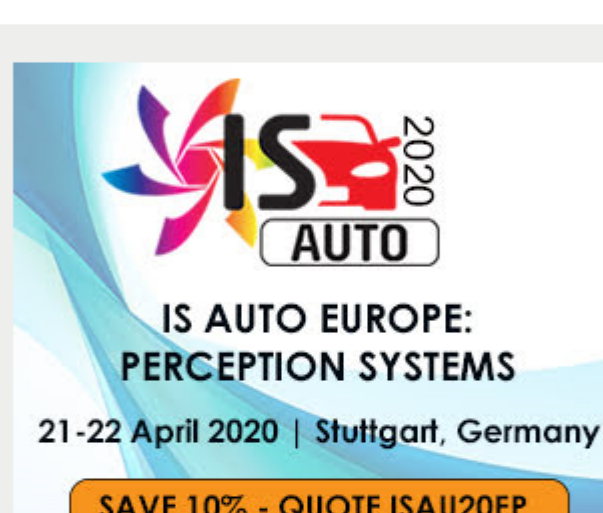
OptoSigma's new 25.4-mm stainless steel mirror mount features a hollow-frame design to maximize stiffness and reduce mass. Thermal repeatability tests validate the effectiveness of new frame design showing lower deflection and equivalent repeatability against rival mounts. Additional features include center-post mounting, built-in dowel pin keys, and adhesive wells, all in the industry's most compact and affordable stainless steel mount.

[Visit Website](#)

[Request Info](#)



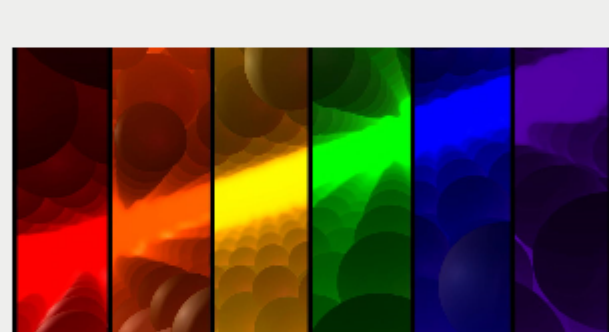
sponsors



## More News

### 2D Material Structures Can Emit Customized Light in Desired Color

Some atomically thin 2D materials can emit customizable light in the color desired when the materials are combined together to create an "artificial semiconductor." The discovery, made by researchers at the University of Geneva (UNIGE) and the University of Manchester, could spur use of 2D materials on an industrial scale.

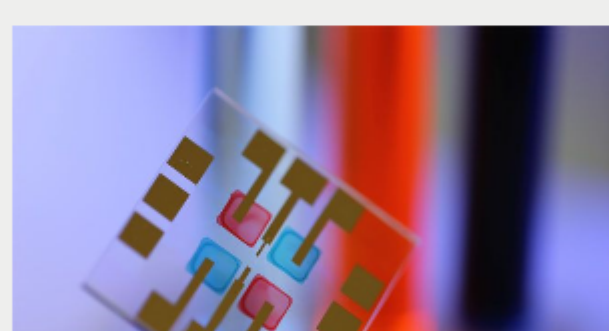


[Read Article](#)

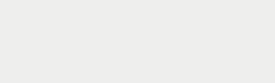


### Printable Photodiodes Could Be Used for Visible Light Communication

A team at Karlsruhe Institute of Technology has demonstrated a multichannel visible light communication system based on an organic photodetector array capable of demultiplexing optical signals without the need for additional optical filters.



[Read Article](#)



## More Headlines

[Lasers and THz Waves Combined in Hyperspectral Camera](#) [Read Article](#)

[Optoelectronic Superstructure Could Be Applied in Neuromorphic Computing](#) [Read Article](#)

[Quantum Interference Observed Using UV-Light Spectroscopy](#) [Read Article](#)

[Sensor Uses Quantum Entanglement to Detect Magnetic Excitation](#) [Read Article](#)

[Vision for Primate Neuroimaging to Accelerate Scientific and Medical Breakthroughs](#) [Read Article](#)

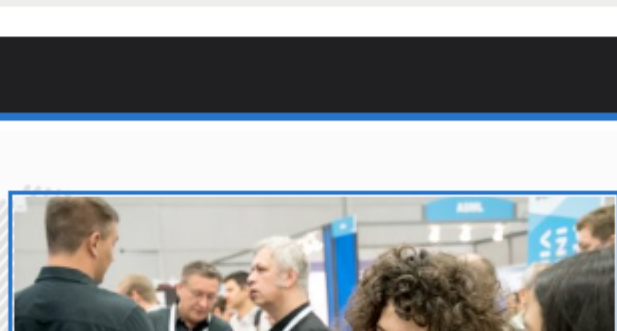
## Industry Events

### SPIE Photonics Europe 2020

March 29 - April 2, 2020 - Palais de la musique et des congrès - Strasbourg, France

Photonics Media Booth: LIT 3

SPIE Photonics Europe is the premier European optics and photonics research and development conference, bringing together over 1800 attendees every other year to address the most challenging issues facing the industry today. This year the program will include an expanded biophotonics track and a new conference on terahertz photonics, photosensitive materials, and photonics and plasmonics at the mesoscale. Top speakers will deliver presentations on timely topics, from 3D-printed micro-optics to computational microscopy. Additional topics to be covered in this cross-disciplinary event will include photonic glasses, photosensitive materials, and quantum technologies.



[More Info](#)

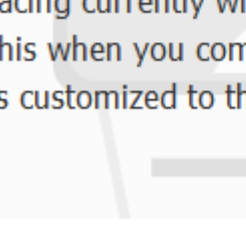
## Webinars

### Getting Specific About Coating Specifications

Wed, Apr 15, 2020 1:00 PM - 2:00 PM EDT

In this webinar, the technical team at North American Coating Laboratories (NACL) will provide a basis for specifying, testing, and confirming that your coating needs are clearly stated on drawings and are clearly conveyed to your coating solutions provider. To achieve this, the NACL team asks that you let them know what challenges you have faced or are facing currently with regard to specifying and testing optical coatings and meeting your coating requirements. You can do this when you complete the registration process. The NACL team will review all responses and prepare a presentation that is customized to the concerns of the registrants.

[Register Now](#)



### CALL FOR ARTICLES

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, *Vision Spectra*, and *EuroPhotonics*). Please submit an informal 100-word abstract to [editorial@Photonics.com](mailto:editorial@Photonics.com), or use our [online submission form](#).

We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member of our website, Photonics.com. You may use the links below to manage your subscriptions or contact us.

Questions: [info@photonics.com](mailto:info@photonics.com)

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949

© 1996 - 2020 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.



LAURIN PUBLISHING