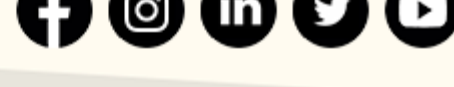
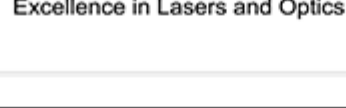


# This Week In PHOTONICS

PHOTONICS MEDIA



sponsor

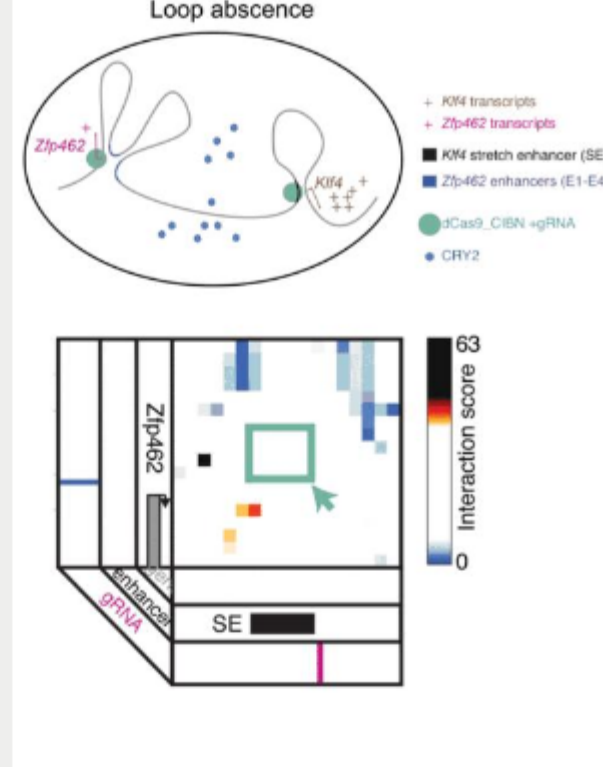


**Introducing the UltraBright Spectrometer**  
No slit, just a giant aperture and a huge field of view.  
Boom. Spectrum. Done.

## Top Stories

### Light-Activated Control of Gene Expression

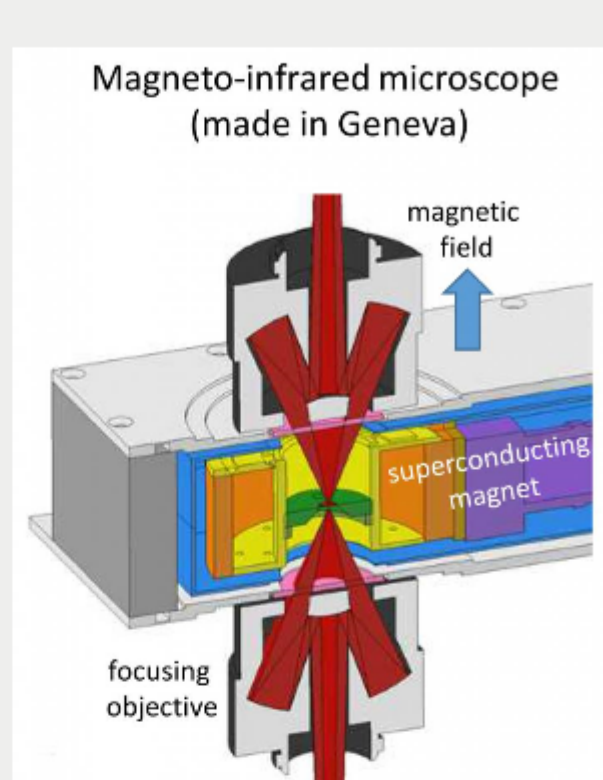
Using a technique called light-activated dynamic looping, or LADL, scientists at the University of Pennsylvania are investigating the role that genome folding plays in gene expression. The team has demonstrated how LADL can be used for quickly creating specific genome folding patterns on demand, using light as a trigger.



[Read Article](#)

### Researchers Confirm Strong Magneto-Optical Resonance in Graphene

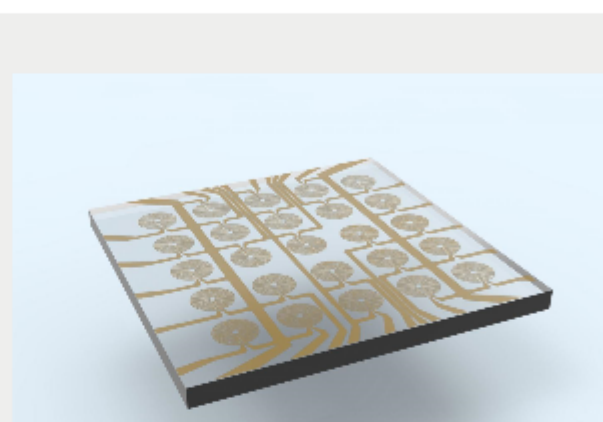
Researchers from the University of Geneva (UNIGE) and the University of Manchester have demonstrated an efficient way to control IR and THz waves using graphene, in a study that confirms a 2006 theory predicting that graphene could be used in a magnetic field to absorb THz and IR light on demand and control the direction of the circular polarization.



[Read Article](#)

### Dynamically Tunable Smartlens Can Shape Light for Different Functions

The integration of an adjustable-dynamic zoom lens in a thin cellphone, in a miniaturized microscope, or at the remote end of a medical endoscope requires complex lenses that can handle the full optical spectrum and be reshaped electrically within milliseconds.



[Read Article](#)

## Featured Products



### Flexible Sputtered Coatings

**Deposition Sciences Inc. (DSI)**  
Roll-to-roll processes present a number of challenges when coating flexible surfaces, including unbalanced stress on each side of the substrate and limited line speed. These limitations affect the thickness and possibility of complex coatings. To address these challenges, DSI developed their batch coating technology, MicroDyn®. This unique process utilizes a proprietary magnetron sputtering chamber that was custom designed to address the challenges of high throughput coating.

[Visit Website](#) [Request Info](#)



### Canon Surface Reflectance Analyzer

**Canon U.S.A. Inc., Industrial Products Div.**

Canon RA-532H, Surface Reflectance Analyzer (goniophotometer), is a compact, portable device capable of measuring 4 surface appearance conditions in a single pass: Gloss, Haze, Image Clarity (IC), and BRDF (Bidirectional Reflectance Distribution Function). Additionally, Canon has released its own new parameter, "Scattering" parameter, overcoming the shortage of both IC and DOI (Distinctiveness of Image) when evaluating matte and textured surfaces as well as orange peel surface.

[Visit Website](#) [Request Info](#)

sponsors

**SUPERRESOLUTION Microscopy**  
Expert content on a poster suitable for lab, classroom and office

**\$24.95**  
Order Yours Today!

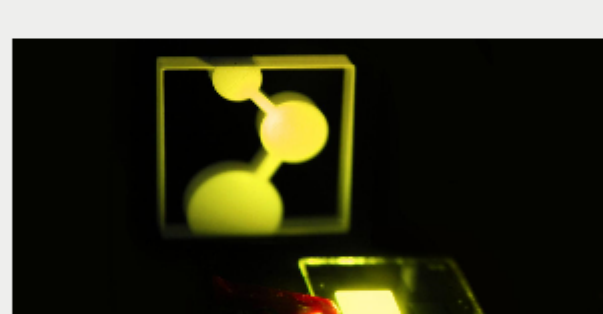
sponsors

**ECOC DUBLIN 2019**  
EXHIBITION 23-25 SEPTEMBER  
THE RDS VENUE, DUBLIN, IRELAND  
**REGISTER NOW**

## More News

### Single-Layer OLED Design Could Lead to Printed Displays

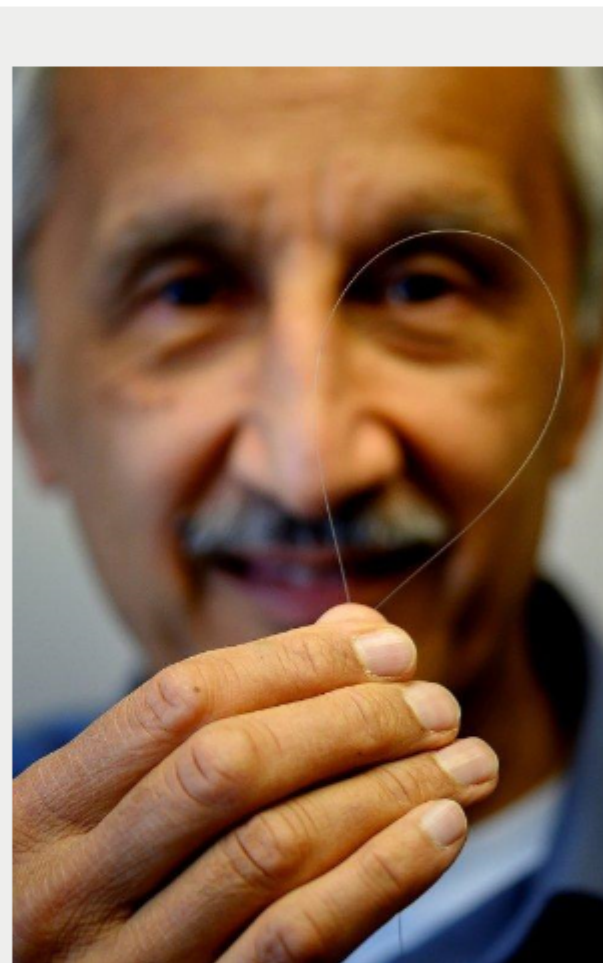
An efficient, stable OLED based on a single layer of a neat, thermally activated, delayed fluorescence emitter has been demonstrated by a research group at the Max Planck Institute for Polymer Research (MPI-P). The first prototype of the single-layer OLED is comparable in luminosity and efficiency to commercially available OLEDs.



[Read Article](#)

### A Safer, More Efficient Fiber Laser from Doping with Nanoparticles

Scientists at the U.S. Naval Research Laboratory (NRL) are using nanoparticles to build fiber lasers that are safer for the eyes and more efficient. The core of the laser's silica fiber is doped with rare earth ions of holmium. With the aid of this dopant, the researchers were able to achieve an 85% level of efficiency with a laser operating at a wavelength of 2 μm.



[Read Article](#)

## More Headlines

**Sailors Use Augmented Reality to Train for Combat** [Read Article](#)

**Doctoral Student Wins Nano Innovation Award for Developing Microscope Capable of Spotting One Photon in a Million** [Read Article](#)

**U. of Rochester's Qiang Lin Honored with National Presidential Award for Work in Integrated Quantum Photonics** [Read Article](#)

**Nanoscale Photon Diode Could Further Next-Gen Computing Technologies** [Read Article](#)

**Terahertz Imaging System on a Chip Offers Speed and Portability** [Read Article](#)

## Industry Events

### World Molecular Imaging Congress 2019

September 4-7, 2019 - Palais des congrès de Montréal - Montréal Canada  
Photonics Media Booth: 108

The WMIC will bring together thousands of professionals and students from across the entire molecular imaging field. Featuring dozens of sessions and hundreds of abstracts, this event will present new ideas, innovations, scientific research, industry exhibitors, and educational sessions. Spotlight Sessions, based on the recommendations from the previous survey results, regional topics, and recommendations from the Program Committee will cover innovative trends and address current knowledge gaps. Educational Sessions on the first day will serve as an introduction to more in-depth topics to be covered during the meeting.

[More Info](#)

**WMIC**  
World Molecular Imaging Congress

EXHIBITOR & SPONSORSHIP PROSPECTUS

September 4-7, 2019  
wmis.org

Palais des congrès de Montréal  
Montréal, Québec, Canada

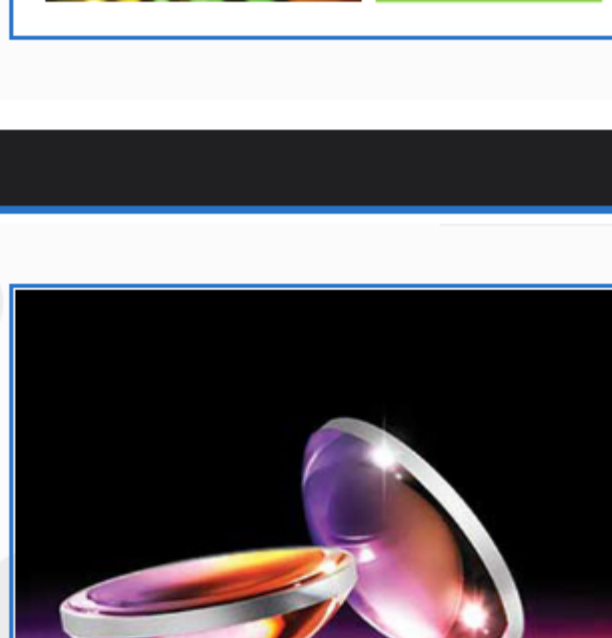
## Webinars

### High-End Asphere Design for Manufacturability

Wed, Aug 28, 2019 1:00 PM - 2:00 PM EDT

In this webinar, Edmund Optics asphere experts will discuss the benefits of using aspheres in optical system design and the factors to take into account during the design process. You will learn how to improve manufacturability, performance, and cost through better asphere design. This webinar is sponsored by Zygo Corp., Edmund Optics, and FISBA.

[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 - 2019 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.

