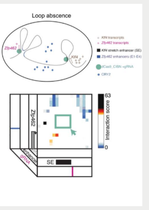
Thursday, August 01, 2019

This Week In PHOTONICS

PHOTONICS MEDIA

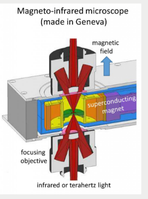
Top Stories

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.



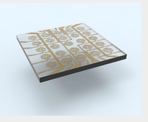
Read Article

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.



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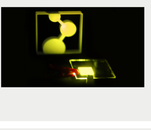
Featured Products

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.



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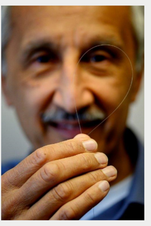
A Safer, More Efficient Fiber Laser from Doping with Nanoparticles
Scientists at the U.S. Naval Research Laboratory (NRL) are using nanoparticles to build fiber lasers that are safer for the eyes and more efficient. The core of the laser's silica fiber is doped with rare earth ions of holmium. With the 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.



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Industry Events

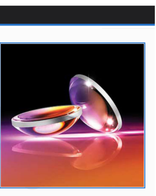
World Molecular Imaging Congress 2019
September 4-7, 2019 · Palais des congrès de Montréal · Montreal Canada
Photonics Media Booth: 108
The WMIC will bring together thousands of professionals and students from across the entire molecular imaging field. Featuring dozens of sessions and hundreds of abstracts, this event will present new ideas, innovations, scientific research, industry exhibitors, and educational sessions. Spotlight Sessions based on the suggestions from 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

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



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