

This Week In PHOTONICS

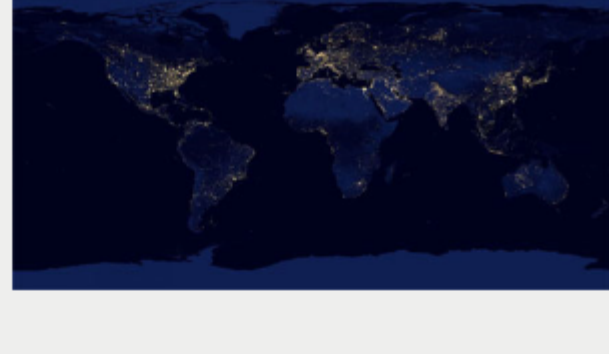
PHOTONICS MEDIA



Top Stories

Satellite Images Help Target Vaccination Campaigns in Developing Regions

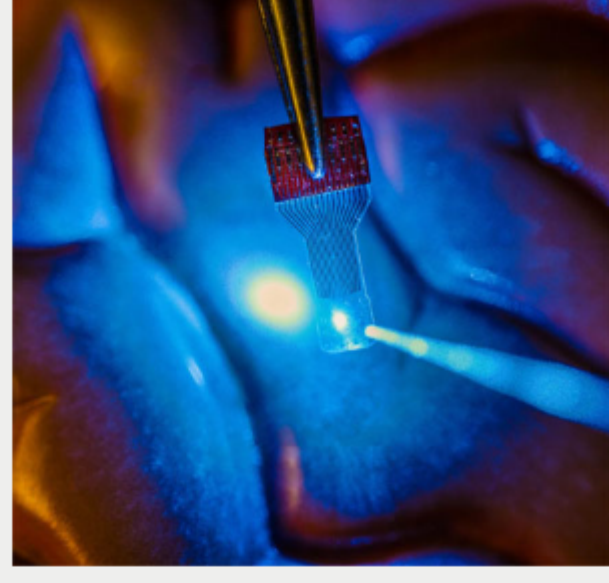
Satellite images that capture short-term changes in population size in communities in developing countries could help vaccination campaigns achieve more complete coverage and aid in preventing disease outbreaks. Vaccination campaigns supplement routine immunization but often fail to achieve coverage goals due to uncertainty about target population size and distribution. Short-term fluctuations in population can significantly impact population size and susceptibility.



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Protocols Introduced for Graphene-Based Array for Biophotonics Applications

The fabrication and use of transparent graphene-based neural electrode arrays for applications in fluorescent microscopy, optical coherence tomography (OCT) and optogenetics have been described in detail by the researchers who developed the array. The arrays, which have broad-wavelength transparency from the UV to the IR spectra, could provide opportunities to advance techniques that may not be possible using conventional opaque metal electrode arrays.



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Berlin Hosts First Micro Photonics Conference

Over 1,000 participants from 15 countries attended the first Micro Photonics conference and congress in Berlin, showcasing their products and attending lectures on the development and manufacture of miniature optical components and their applications. The event was organized by Messe Berlin in association with Berlin Partner für Wirtschaft und Technologie GmbH, the K.I.T. Group and other partners.



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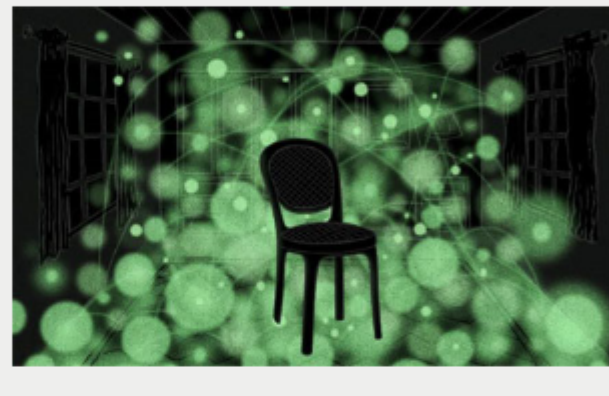
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Superresolution Microscope Builds 3D Images by Mapping Negative Space

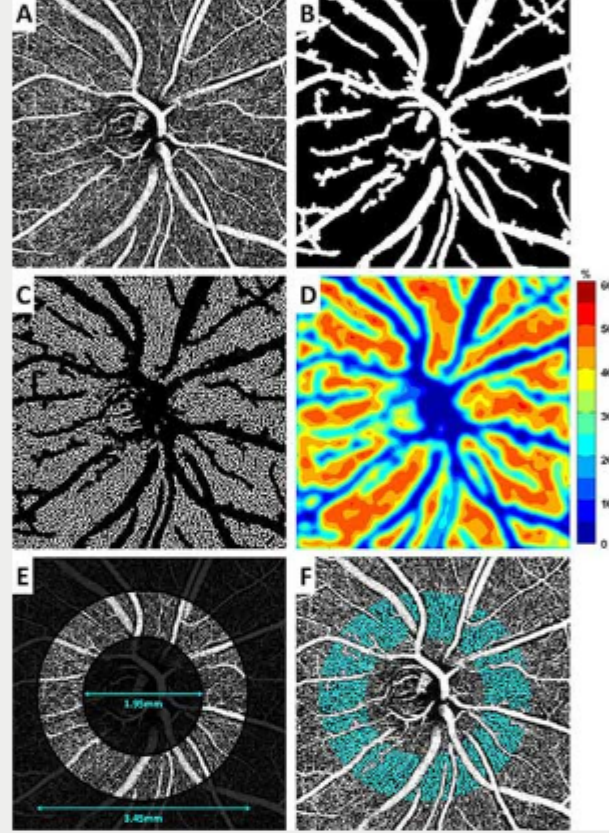
Thermal noise imaging, a novel method for making 3D images of biological structures at high resolution and under natural conditions, may offer insight into how cells communicate with one another, helping to further the development of artificial organs such as skin or heart tissue.



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OCT-A Detects Early-Stage Glaucoma

Optical coherence tomography angiography (OCT-A) was used at the earliest stages of glaucoma to identify the characteristic patterns of different forms of the disease. OCT-A, a noninvasive technique that employs en face reconstruction of OCT combined with motion contrast processing to reveal perfused retinal vasculature, could enable doctors to diagnose glaucoma cases earlier than ever before and potentially slow down the progression of the disease.

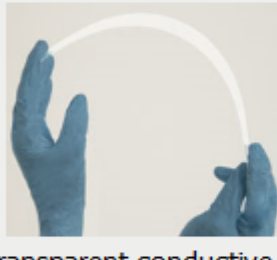


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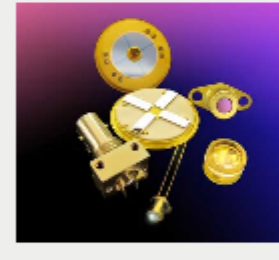
Featured Products



Curved Displays need Ultra-Thin Glass and Coatings

Abrisa Technologies
Abrisa Technologies, a leader in thin-film coatings and glass, now offers transparent conductive ITO, photonic AR and filter coatings on 50 to 100 micron thin, flexible glass to support ultra-thin and curved display needs.

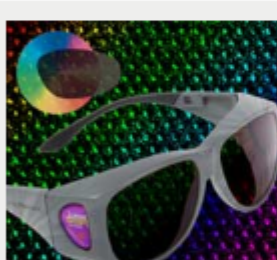
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Opto Diode Corporation
Opto Diode now offers a new expanded line of silicon photodiodes and IR detectors for applications requiring a higher level of integration.

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Broad Spectrum Alignment Filter Eyewear

Kentek Corporation
Broad Spectrum Alignment Filter Eyewear used in applications where you want to dial in low power alignment across the visible light spectrum.

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Moxtek ICE Cube™ Polarizing Beamsplitter

MOXTEK Inc.
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13-14 December

The Crystal, London Royal Docklands

OSA Laser Congress

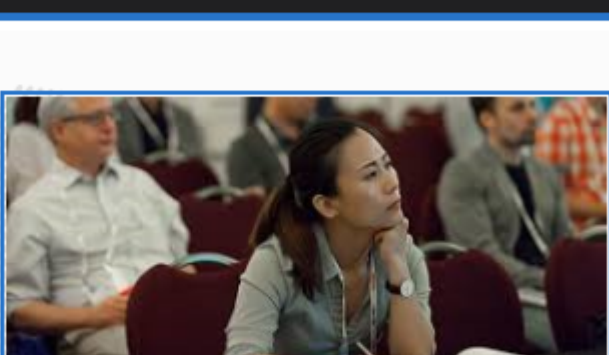
30 October – 3 November 2016
Boston, Massachusetts, US

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Industry Events

OSA Advanced Solid State Lasers Conference & Exhibition 2016

October 30 - November 4, 2016 - The Westin Boston Waterfront - Boston, MA
The OSA Advanced Solid State Lasers Congress will feature the latest advances in solid state laser development and related technologies for use in free space laser communication, laser based sensing, and numerous industrial applications. The Laser Congress will provide attendees with a comprehensive view of the latest technological advances as well as the applications of laser technology for industrial products and markets. The Congress will also include market-focused sessions and presentations describing the technological and engineering advances required to translate these laser technologies into commercial products.

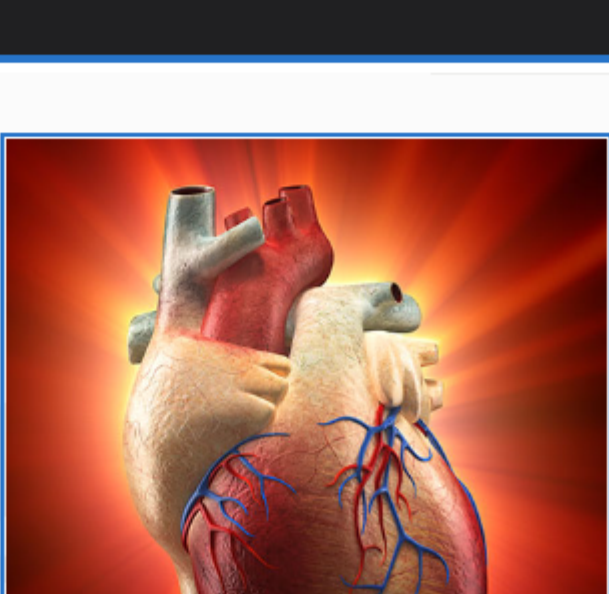


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Webinars

Intracoronary NIRF Molecular Imaging - Translatable Approaches

Mon, Oct 24, 2016 1:00 PM - 2:00 PM EDT
Dr. Farouc Jaffer of Harvard Medical School and Massachusetts General Hospital will present on his use of cutting-edge fluorescence molecular imaging technology to develop intravital microscopy, for the purpose of understanding in vivo the molecular mechanisms of atherosclerosis, thrombosis and vascular injury. He will discuss how his lab has partnered with engineering groups around the world to develop translatable intravascular fluorescence molecular imaging approaches, and the recent clinical translation of this technology. Dr. Jaffer performed the first intracoronary human studies at MGH using a novel OCT-fluorescence imaging catheter. He will speak on these studies and include specific examples based on preclinical trials.

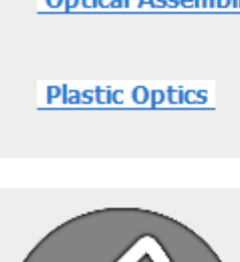


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