

This Week In PHOTONICS

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Top Stories

Handheld System Images Children's Retinas

A handheld device capable of capturing images of a retina with cellular resolution allows researchers to gather detailed structural information about the eyes of infants and toddlers for the first time. "Diagnostic tools that examine and image the retina have been well-designed for adults, but are exceedingly difficult to use in infants and young children who can't hold the required position or focus for long enough periods of time," said Cynthia Toth, professor of ophthalmology and biomedical engineering at Duke University.



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SPIE O+P: An International Forum for Optics, Engineering

SPIE Optics + Photonics, to be held Aug. 28-Sept. 1 in San Diego, is touted the largest international, multidisciplinary optical sciences and technology meeting in North America. The event highlights the latest research in optical engineering and applications, nanotechnology, sustainable energy, and organic photonics.



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UbiQD Awarded NSF Small Business Grant

Quantum dot (QD) manufacturer UbiQD LLC has been awarded a Small Business Innovation Research (SBIR) Phase I grant by the National Science Foundation. The 12-month, \$225,000 award is intended to help fund the R&D of luminescent solar concentrating glass windows with QD coatings.



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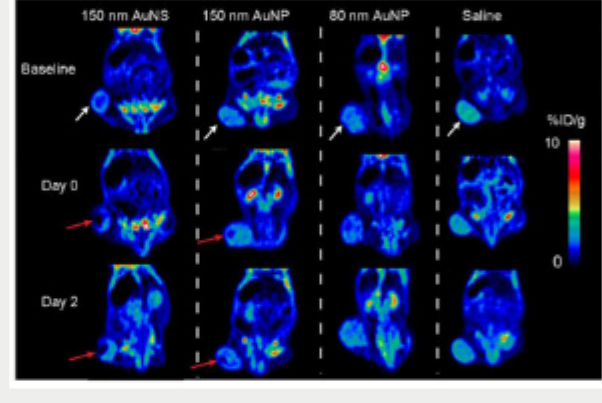


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Plasmonic Nanoheaters Enable Photothermal Cancer Therapy

In vitro and in vivo studies have positively correlated the heat generation of plasmonic nanoparticles with their potential as cancer-killing agents. Using a single-particle and positron emission tomography (PET)-based platform, researchers from the University of Copenhagen quantified the photothermal efficiency of near-infrared (NIR) resonant silica-gold nanoshells (AuNSs) and benchmarked this against the heating of colloidal spherical, solid gold nanoparticles (AuNPs). The researchers reported that both in vitro and in vivo (with live mice as subjects), the heat generation of the resonant AuNSs performed better than nonresonant AuNPs.

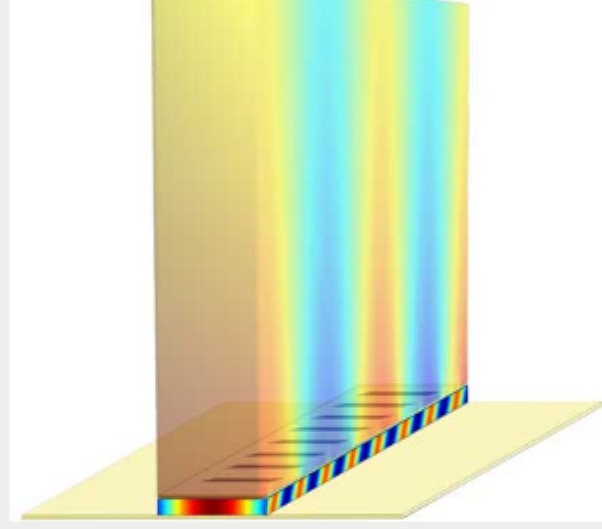


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Periodic Photonic Structures Focus Spaser Light for Nanoscale Optics

Single-mode operation in plasmonic lasers has been demonstrated using a technique that implements distributed feedback (DFB) in a novel way that couples the resonant surface plasmon polariton (SPP) mode of the laser to a highly directional far-field radiation pattern and integrates hybrid SPPs in the surrounding medium into the laser's operation.



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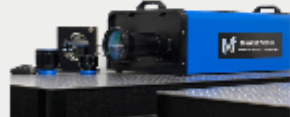
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M-Wave 339 IR Interferometer



M3 Measurement Solutions Inc.
The M-Wave 339 is a state-of-the-art Infrared Interferometer operating at 3.39 micrometers. It is the ideal instrument for testing mid-wave infrared imaging components/systems and optical material homogeneity.

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OpTest[®] Lens Measurement System



Optikos Corporation
OpTest Systems provide advanced metrology for accurate and efficient lens measurements in applications ranging from space imaging, aerospace, defense, security and medical, to photography and cinematography.

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Small Fiber Collimators



Micro Laser Systems Inc.
Very small Fiber Collimators from Blues to NIR wavelengths are now available for the stringent requirements of many biomedical and sensing applications.

These collimators have a 2.4 mm outer diameter and generate ~0.6 mm collimated beam from singlemode fiber with low beam divergence.

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AccuFiz SIS Laser Interferometer



4D Technology Corporation
The AccuFiz Laser Interferometer is compact, lightweight and extremely rigid, for maximum stability in any orientation or environment. The new AccuFiz Surface Isolation Source interferometer includes a second, external, short coherence laser to isolate and measure plane parallel optical surfaces.

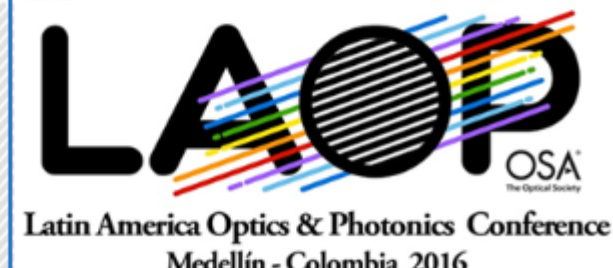
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Industry Events

OSA Latin America Optics & Photonics Conference (LAOP) 2016

August 22-25, 2016 - Medellin Colombia

The Latin America Optics & Photonics Conference is the major international conference sponsored by The Optical Society in Latin America with the objective to promote optics and photonics activities in the region to enhance their development and impact. This year's conference features a comprehensive technical program with recognized experts in fields critical to Latin America. The conference covers all major areas of optics and photonics and highlights the latest research results that are making an impact in fundamental research and applications. Image courtesy of The Optical Society (OSA).



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