

This Week In PHOTONICS

PHOTONICS MEDIA



Top Stories

Ultrathin Metalens Captures Chiral, Spectral Images Simultaneously

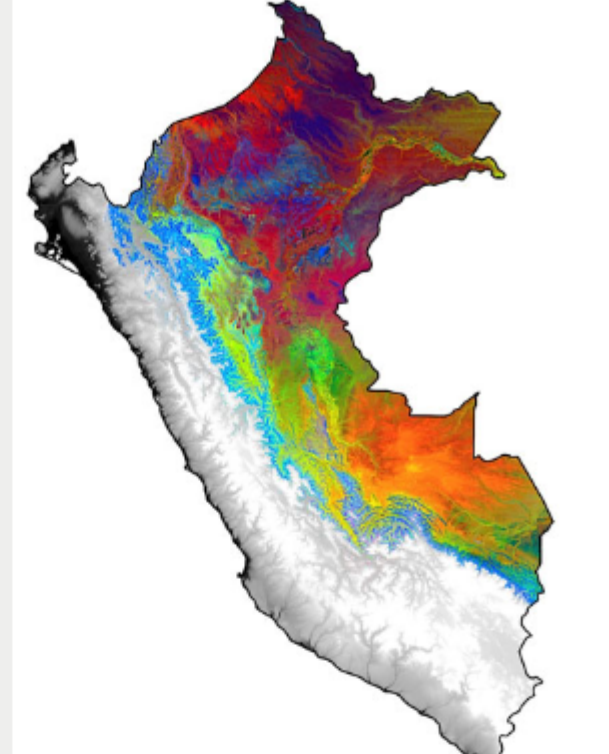
An ultracompact planar lens has been engineered to simultaneously form two images of the same object, with opposite helicity and within a single field-of-view. The chiral and spectral properties of the object can be simultaneously probed across the visible spectrum with only the ultrathin lens and a camera. The ultrathin surface of the lens can form an image and at the same time resolve polarization and spectral information of the object, thus integrating the functions of polarization and dispersive optical components.



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Aerial Spectroscopy Reveals Complex Resource Economies in Peruvian Forests

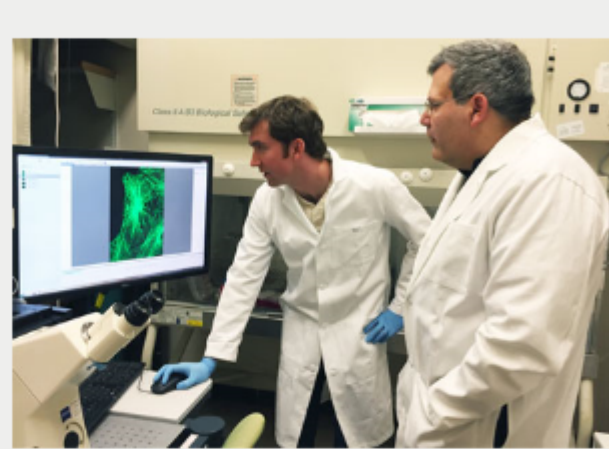
A high-fidelity imaging spectrometer onboard the Carnegie Airborne Observatory has enabled the creation of forest canopy maps of leaf nitrogen, phosphorous, and mass over a large portion of the biosphere covering nearly 200 million acres of Peru. Researchers from the Carnegie Institution for Science, using airborne imaging spectroscopy in combination with geospatial modeling, described a continuum of forest canopy nitrogen, phosphorous, and leaf mass relationships that are sensitive to the range of geophysical conditions found throughout the region.



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Mirror-Enhanced Microscopy Provides New Info about Cell Behavior

A novel technique for growing cells on miniature mirrors and imaging them using super-resolution microscopy may provide a way to view cell structures at a micron scale. The technique uses light waves to create interference patterns as light passes through the cell on the way to the mirror, which reflects the light back through the cell.



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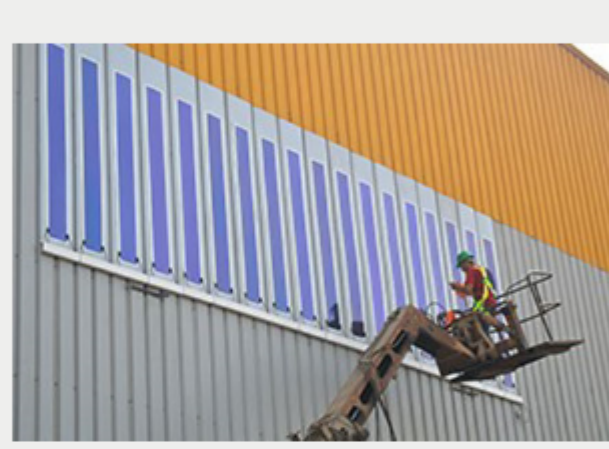
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Heliatek, Kandil Launch Egyptian Organic-PV Pilot Program

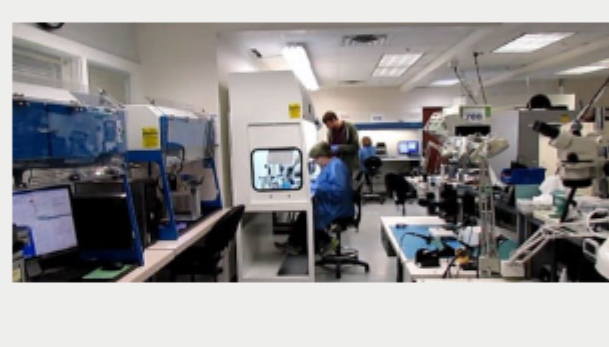
Organic electronic energy technology developer Heliatek GmbH has implemented its first Building Integrated Organic Photovoltaic (BIO-PV) pilot project in Egypt. The energy generation project uses Heliatek's organic solar film and steel applications by Kandil Steel to harvest energy.



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New Scale Mini Fiber Positioners Enter Full Production

Micropositioning stage developer New Scale Technologies Inc. has moved its miniature Cobra fiber positioners into full production, manufacturing 200 units per month for the Subaru Telescope Prime Focus Spectrograph. New Scale will deliver a total of 2,550 Cobra positioners to the California Institute of Technology by June 2017.



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Light Matters

Capasso Lab's Planar Metalens Could Revolutionize Smartphones

In an exclusive interview with Photonics Media, renowned scientist Federico Capasso shares his research findings that a new metasurface lens material could ultimately replace traditional optics in microscopes, cameras and smartphones. We examine a new IR sensor that can get you into the inner-workings of food, pain medications and more, without any physical contact. We've got the low-down on this year's CLEO show, and we take a whirlwind tour of the photonics and optics hub that is Rochester, New York.

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e2v Launches Dual-line ELiXA+ Line Scan Cameras

e2v
e2v's ELiXA+ family of line scan cameras has been expanded to include two new dual-line 8k monochrome models.

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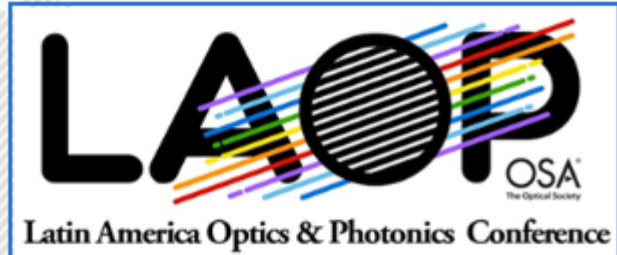
VISION

Industry Events

OSA Latin America Optics & Photonics Conference (LAOP) 2016

August 22-25, 2016 - Medellín 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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