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Top Stories

Holograms Gain Efficiency from Metasurface Fabrication Technique

Nanostructured metasurfaces have been incorporated into compact holograms, enabling the production of different images depending on the polarization of incident light. The highly efficient holograms lose very little light in the processing of creating the image, and are expected to improve antifraud holograms as well as those used in displays.

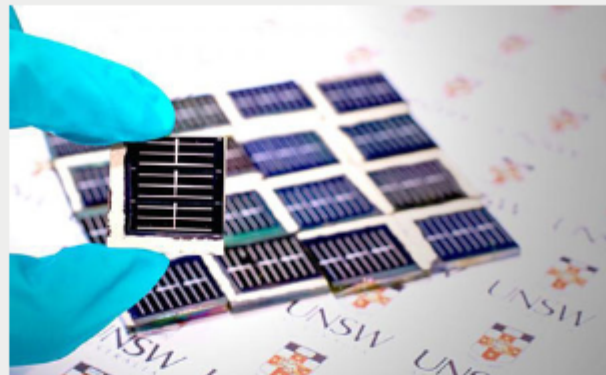


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Flexible Solar Cell Achieves 7.6% Efficiency

A thin-film technology called CZTS has been applied to photovoltaics to achieve a world-leading 7.6 percent efficiency in a 1-cm² solar cell. The achievement marks a milestone for thin-film photovoltaic (PV) technology — which is being explored for zero-energy buildings, among other applications — on its path toward commercially competitive 20 percent efficiency.

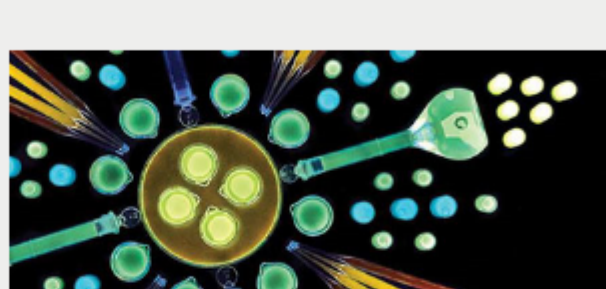


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A Greener Way to Create Quantum Dots

A method for manufacturing quantum dots (QDs) from a single enzyme may provide a simple, cost-effective and environmentally friendly way to produce these semiconducting nanocrystals, prized for their optical and electronic properties. Current chemical manufacturing methods for QDs are time-consuming and often require toxic solvents.



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Simons Observatory Receives \$40M in Funding to Advance Telescopes, Detectors

The Simons Foundation has given \$38.4 million to establish a new astronomy facility in Chile's Atacama Desert, adding new telescopes and detectors alongside existing instruments in order to boost ongoing studies of the evolution of the universe, from its earliest moments to today. The Heising-Simons Foundation is providing an additional \$1.7 million for the project.

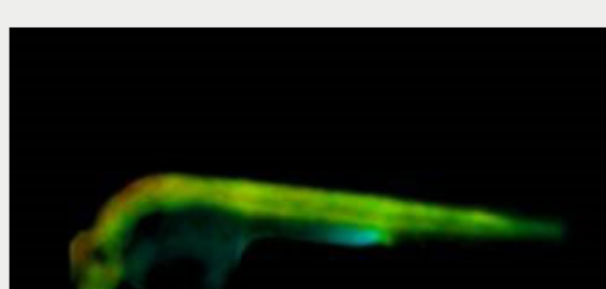


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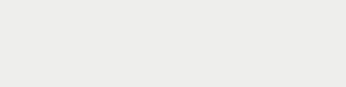


FLIM OPT Monitors Cell Signaling in Live Organisms

Fluorescence Lifetime Imaging (FLIM) combined with Optical Projection Tomography (OPT) has been demonstrated as useful for imaging and monitoring apoptosis in whole live organisms in 3D. Termed FLIM OPT, the method may provide a means to visualize cell signaling processes and even responses to potential drug therapies in live organisms over space and time.



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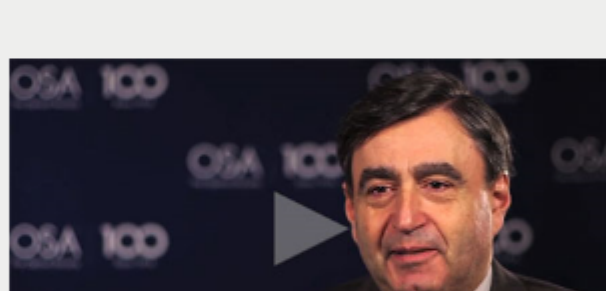


Featured Video

OSA Centennial - Eric Mazur - Harvard University

The Optical Society members share their reflections on 100 years of optics innovation, what inspired their interest in the field and how OSA has impacted their career.

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LedHUB LED Light Engine

Omicron-Laserage
Omicron's innovative "LedHUB LED Light Engine" represents a new form of LED

light source for science and research.

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Refractive Index

M3 Measurement Solutions
M3 provides refractive index testing at wavelengths from 350nm to 14µm. We offer two sample configurations. Curve fitting and dispersion algorithms can be reported upon.

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Ball and Spherical Lenses

APPLIED IMAGE
APPLIED IMAGE manufactures optically pure BALL (spherical) Lenses in custom

diameter sizes using a wide variety of materials, including Infrared Chalcogenide composite IRG26.

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Injection Molding

Diverse Optics
Diverse Optics creates custom precision polymer optics. We manufacture the most challenging components, modules, and assemblies for defense, medical, and commercial applications.

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Industry Events

SID Display Week 2016

May 22- 27, 2016 - The Society for Information Display
Moscone Convention Center - San Francisco, CA

Display Week is the premier international event for the electronic display industry, where breakthrough technologies are introduced. Comprised of attendees and exhibitors representing the foremost display-engineering talent from the world over, and leaders representing both the commercial and consumer markets, Display Week offers synergies unparalleled by any other display event. Display Week 2016 includes a three-day exhibition featuring the world's most influential companies and institutions involved in the business of displays and a four-day technical symposium, as well as conferences, seminars and professional networking opportunities.



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