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Machine Vision

Top Stories

The bio-inspired design of an ultrasensitive camera that is capable of sensing both color and polarization is based on the visual system of the mantis shrimp. The camera features a single-chip, low-power, high-

Camera Design Mimics One of Nature's Most Sophisticated

resolution color-polarization imaging system. The imager captures coregistered color and polarization information in real time with high resolution by monolithically integrating nanowire polarization filters with vertically stacked photodetectors. Read Article 3 (1) (in 5)



Million Atoms

Visual Systems





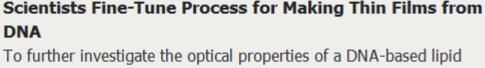


Scientists have demonstrated entanglement between 16 million atoms in a crystal crossed by a single photon, reinforcing the quantum theory

that entanglement can persist in macroscopic physical systems. The scientists followed two basic steps: the preparation of an entangled system and the subsequent appropriate measurement verifying the

presence of entanglement. Read Article

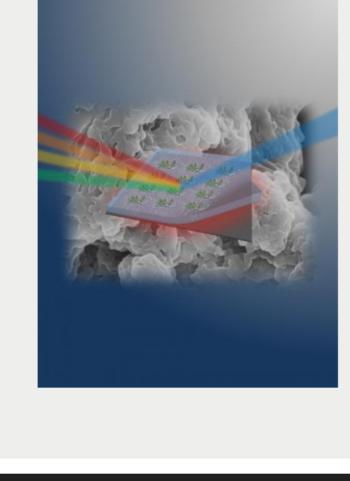




DNA backbone. Organic thin films made from DNA, fine-tuned to provide control over the material's optical and thermal properties, could be used in biomedical and other photonic devices.

complex that is widely used in current DNA thin-film research,

researchers developed a refinement process to minimize the relative bound water content and control binding of the surfactant onto the



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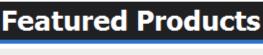
A new, 12-lecture course from successful scientist-turned-

Photonics Media

Technology Commercialization

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3 A B D



DSI manufactures custom high performance narrow bandpass

Topics Include



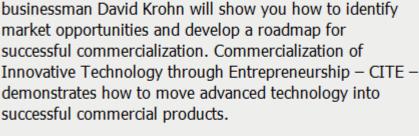
and LWIR spectral regions. The coatings are produced by sputtering or evaporation on either customer- or DSI-

Deposition Sciences Inc. (DSI)

filters for use throughout the MWIR

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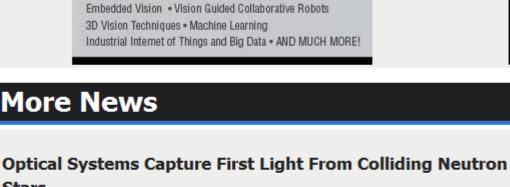


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Scientists from the international LIGO and Virgo Scientific

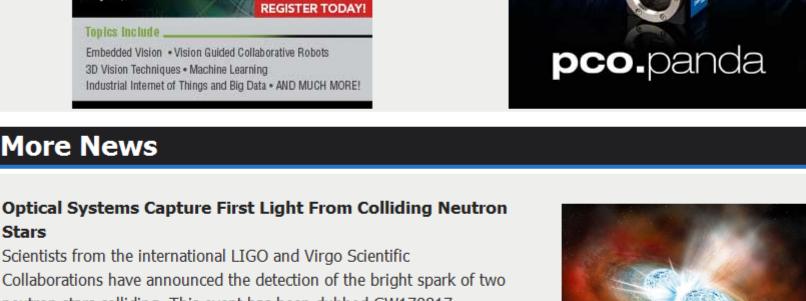
neutron stars colliding. This event has been dubbed GW170817

is the first ever detection of light from a gravitational wave source.

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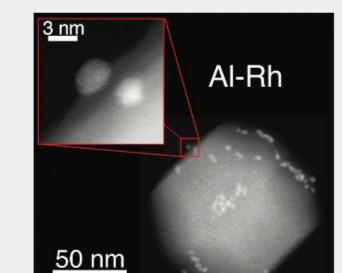


because it sent ripples through space-time that reached Earth on August 17, 2017. GW170817 lasted more than a minute and a half and

Stars



Researchers have developed a way to build multifunctional nanoscale structures using aluminum nanocrystals. The structures have an aluminum core and are dotted with even smaller metallic islands. The nanocrystals are used as a base for creating size-tunable transitionmetal nanoparticle islands that enable localized surface plasmon resonances.



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3 A B D



Optics & Photonics for Energy & the Environment

This OSA Congress will examine the development of optical

BGN, Ram to Develop Diagnostic Sensor Read Article

ULO Optics Acquires Laser Beam Products Read Article

Industry Events

November 6-9, 2017 - National Center for Atmospheric Research -

technologies for energy production, transmission, monitoring and use. It will bring together researchers, engineers and managers to foster timely information exchange between the disciplines involved in these

fields. Topical meetings include: Optical Nanostructures and Advanced

Environment; Optics for Solar Energy; and Solid-State Lighting. The International Photonics Advocacy Coalition (IPAC) will host a session to discuss photonics-based technology solutions for accurate and

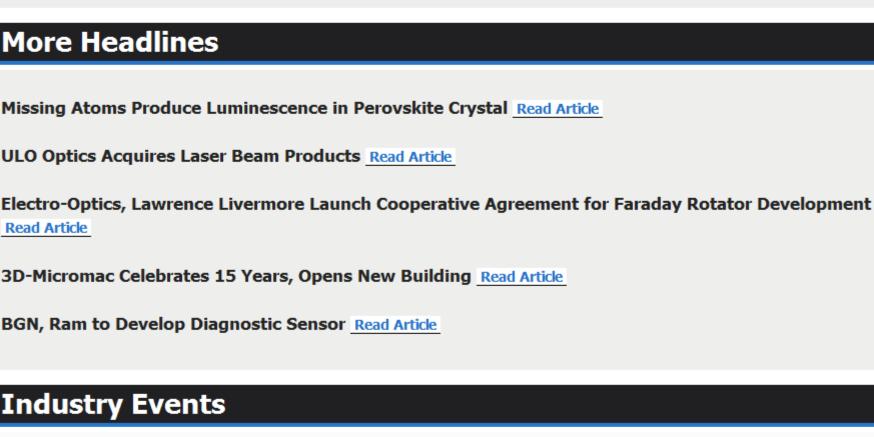
reliable environmental monitoring, reporting and effective policy implementation. Image courtesy of OSA, The Optical Society.

Materials for Photovoltaics; Optics and Photonics for Energy & the

Webinars

can affect optics manufacturing. This webinar will cover ISO LIDT specifications in detail, providing you with a better understanding of LIDT testing and laser optics manufacturing. You will learn what a specified LIDT value means and how it affects your application. In addition, you will learn the difference between achieving a single LIDT Register Now

More Info

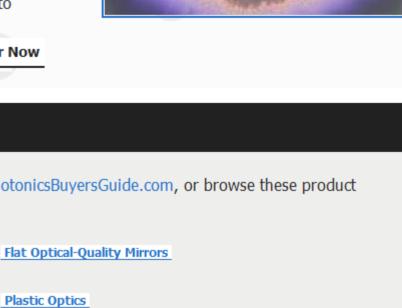


The Optical Society

Wed, Oct 25, 2017 1:00 PM - 2:00 PM EDT Avoid unnecessary manufacturing costs by knowing more about Laser-Induced Damage Threshold (LIDT) specifications and how they

Laser-Induced Damage Threshold Values and How They

test value in small quantities and consistently meeting a specified LIDT in production. Who should attend: Optical engineers, design engineers, solutions engineers, application engineers who want to learn more about LIDT. PHOTONICS buyers' guide® Looking for Optics & Optical Components products? Search PhotonicsBuyersGuide.com, or browse these product categories:



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