Thursday, October 05, 2017 This Week In







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Lasers in Industry

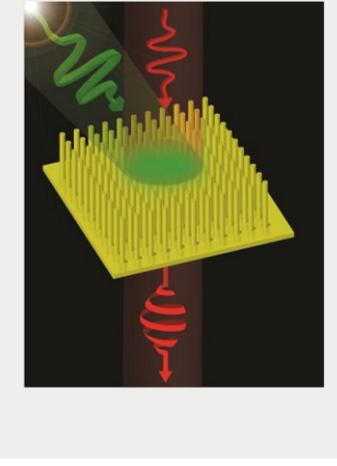
Top Stories

polarization control could allow faster data transfer and open new

Controlling Light With Light

areas of nanoresearch, enabling researchers to learn more about unseen nanoscale worlds such as drug chemistry and quantum electronics. Scientists have developed an ultrafast method of changing the fundamental properties of light with light.

A breakthrough in rapid polarization switching with an all-optical



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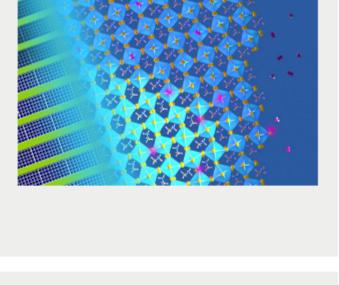




approaching those of perovskite single crystals and crystalline semiconductors. To repair defects caused by carrier trapping, researchers developed a perovskite-based device, and before

Exposure to light combined with exposure to humidity and oxygen has been shown to permanently correct defects in the molecular structure of perovskites, resulting in minimal nonradiative losses and properties

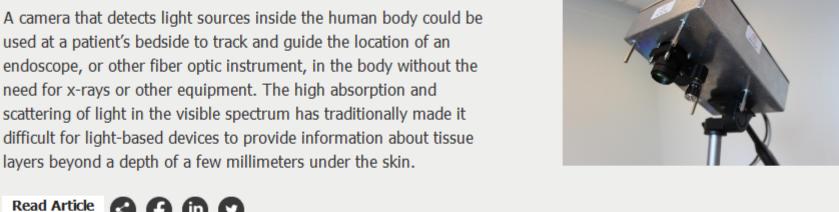
completing it, exposed it to light, oxygen and humidity. Read Article 3 A m v **Ballistic Photon Imaging Locates Fiber Optic Instruments**



In Vivo







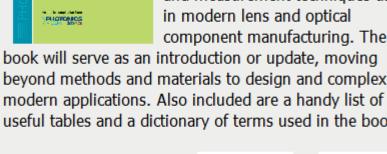








interested in the methods, materials Fabrication and measurement techniques used



Optical

beyond methods and materials to design and complex

useful tables and a dictionary of terms used in the book. Visit Website Request Info sponsors small **but** powerful

Optical Fabrication is a new book

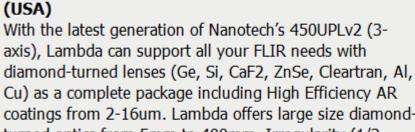
for anyone working on or

in modern lens and optical

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Cu) as a complete package including High Efficiency AR coatings from 2-16um. Lambda offers large size diamond-

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turned optics from 5mm to 400mm, Irregularity (1/2) Fringe for Ø 150mm) <1/2 Fringe up to Ø 150mm, and Surface Roughness <30 Å RMS.

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required to digitize objects with diffuse reflectance properties.

design and quality assurance in the production of clear products, and





Scientists have created a new imaging technique that could be useful for movie production, creating virtual reality experiences, improving

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Transparent Objects

even for preserving rare or culturally significant objects. Read Article (4) (7) (10)

Photosensitizer Activates Anti-Cancer Properties in **Antimalarial Drug** Scientists have shown that the anticancer properties of artemisinin, an antimalarial drug that is also a promising alternative cancer treatment, could be enhanced potentially tenfold when used with the photosensitizer aminolaevulinic acid (ALA). When exposed to light, ALA leads to the generation of free radicals that can kill cells. A

combination of artemisinin and ALA could kill colorectal cancer cells

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and suppress tumor growth more effectively than administering

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artemisinin alone.







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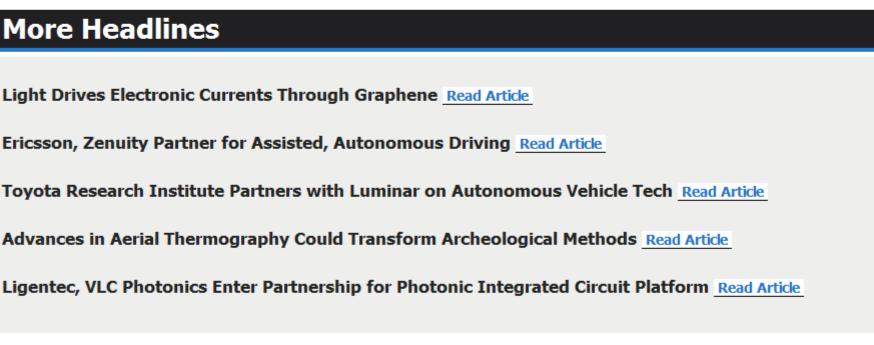
Industry Events

fabrication show

AVS 64th INTERNATIONAL SYMPOSIUM & EXHIBITION October 29 - November 3, 2017 - Tampa Convention Center - Tampa United States The AVS International Symposium and Exhibition addresses cuttingedge issues associated with materials, processing and interfaces in the research and manufacturing communities. The Symposium fosters a multidisciplinary environment that cuts across traditional boundaries between disciplines, featuring papers from AVS technical divisions, technology groups, and focus topics on emerging technologies. The equipment exhibition is one of the largest in the world with 200-plus participating companies. More than 2,000 scientists and engineers gather from around the world to attend the Symposium.

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Webinars

Tue, Oct 10, 2017 1:00 PM - 2:00 PM EDT

Applications

Prototyping

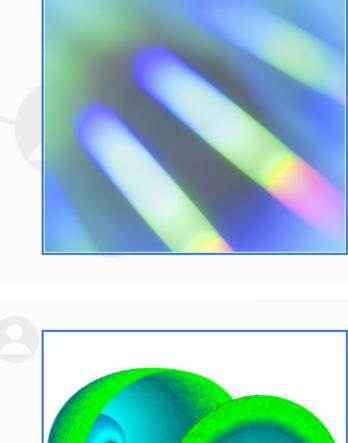
This webinar will provide an overview of the state of the art in hyperspectral imaging (HSI) and cover a number of diverse applications for HSI, from medical imaging to agriculture and anti-

counterfeiting. The webinar will conclude with an outlook on some of

the exciting new technologies that are expected to continue to

Mobile Hyperspectral Imagers: Implementations and

transform this imaging modality and move it into the domain of the consumer. Presenter Hod Finkelstein is CTO of TruTag Technologies where he leads imaging systems development and microparticle productization teams. Register Now



You will learn how to design more efficient luminaires using Lambda Research's TracePro software, a 3D CAD virtual prototyping program with the power and tools to simulate and design luminaires. Learn

Learn Efficient Luminaire Design Using Virtual

Thu, Oct 12, 2017 1:00 PM - 2:00 PM EDT

how to design luminaires for maximum efficiency and specified angular output, how to use photorealistic rendering to make sure a luminaire works as designed, when to use diffusers to improve design output, Tips and Tricks for creating better luminaires in less time, and more. Presented by Lambda Research Corporation. Register Now

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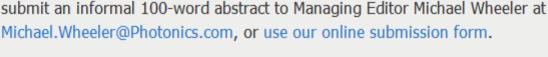


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