This Week In











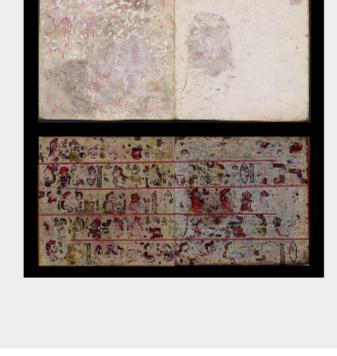
Hyperspectral Imaging Shines Light on Ancient Mexican

Text

Top Stories

Researchers at the Bodleian Libraries have used hyperspectral imaging to reveal never-before-seen pictographic scenes from a rare precolonial Mexican codex that

has been hidden underneath a layer of gypsum and chalk for 500 years. Until now, no other technique has been able to unveil the concealed pictorial narrative in a noninvasive manner.



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Target Ignition









Conditions capable of producing a direct drive laser fusion yield that is five times

demonstrated. The work, which shows the use of direct-drive laser fusion to

compress fuel to about half the pressure required to ignite it, represents an advance in a national research initiative to develop fusion as an energy source.

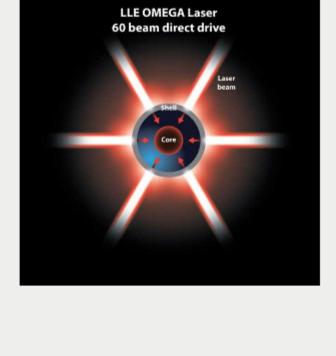
Solid-State Photodetector May Speed Switching of

An all-solid-state wavelength-dependent bipolar photodetector (WBPD), composed

of a single semiconductor, has demonstrated a faster response time than existing WBPDs that are comprised of hetero-nanostructures. The novel WBPD has also

higher than the current record for laser fusion energy yield have been

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samples to be treated.



Optoelectronic Devices



demonstrated tunable switching wavelengths.





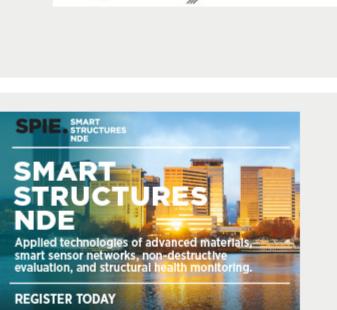
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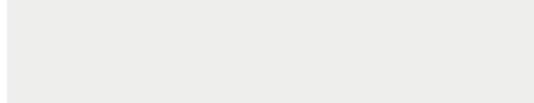
Semiconductor with

Transparent electrode

> Incident light

bifacial band bendings

Electrode



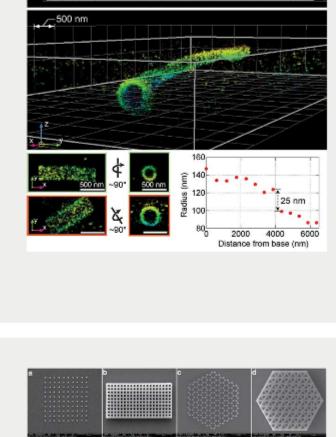
Laser Identifies Size, Shape of Materials for Quicker

microscopy tools, could help speed the design of optical devices.

to determine the precise number of scatterings in optical materials has previously been done using electron or atomic-force microscopy only. A novel method for determining the properties of optical materials, done without the use of expensive

Ultrahigh-Resolution Microscope Images Whole Cells in 3D A novel superresolution nanoscope allows 3D imaging of an entire mammalian cell

and its cellular constituents at a resolution that is 20 to 50 times higher than conventional microscopy, with imaging depth improved approximately tenfold over state-of-the-art iPALM and 4Pi-SMSN implementations. Until now, resolving details at this level was only possible using electron microscopy, which requires



Optical Design When optical diffraction was used to analyze the structure of a photonic crystal, researchers found that it created a characteristic light pattern that corresponded exactly to the number of scattering microscopic particles in the sample. The ability

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and Exhibit/Laser Science XXXII 2016

key factors in the sensor selection process, including beam diameter, beam density values, cooling requirements, and exposure duration. Choosing the wrong laser sensor can result in a damaged sensor and invalid measurements of

based on the wrong criteria. In this webinar, Ophir-Spiricon sales engineer Dick Rieley will discuss laser measurement best practices and will guide you through

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Webinars Laser Measurement Best Practices: How to Avoid Choosing the Wrong Power/Energy Sensor

Frontiers in Optics 2016—the 100th OSA Annual Meeting—encompasses the breadth of optical science and engineering and provides an atmosphere that fosters the exchange of information between those working on fundamental research and those looking for solutions to engineering problems. Special

symposia and other major events further highlight major advances in many

selected areas. Image courtesy of OSA, the Optical Society of America.

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