This Week In







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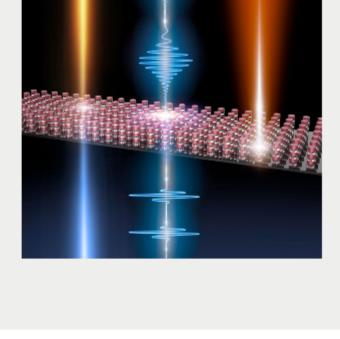


Optical Metamaterials Use III-V Semiconductors as

Building Blocks

Materials that are more efficient than metals and that feature wider bandgap measures than silicon are being developed for possible use in optical metamaterial applications. All-dielectric materials using III-V semiconductors could be used to

develop metamaterials that are efficient, resistant to energy loss and able to operate in the IR range.



rays.

Read Article







accident in Fukushima. The Electron Tracking Compton Camera (ETCC) can

perform simultaneous measurement of brightness and spectrum of MeV gamma

Nanoscale Sensor Detects Disease A new nanoscale sensor has been developed that can help detect cytokines molecules that play a critical role in cellular response to infection, inflammation, trauma and disease. Researchers at the Australian Research Council Centre of Excellence for Nanoscale Biophotonics created the modified graphene quantum

dot (GQD) sensor that allows ultra-small amounts of cytokines to be identified in



(b)

 Δ Ground

and around cells.









International trade fair for quality assurance

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parallel, a novel device has been developed that uses surface plasmons to mediate optoelectronic imaging. The on-chip plasmonic switching device consists of a 2D disordered array of nanoholes on a thin metal film that can provide multiple-input

Optoelectronic Device Speeds Parallel Processing

To increase the speed of data transfer when many microprocessors are used in

and multiple-output channels for transferring information from a photonic to an

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small **but** powerful

Multiview Video Streaming Emerges as a Form of Visual-Content Representation

Multiview video streaming — the ability to view a recorded scene from different

Possible applications range from consumer electronics, computer games and

virtual worlds to realistic video conferences and autonomous driving.

perspectives — could revolutionize the entertainment industry and the workplace.

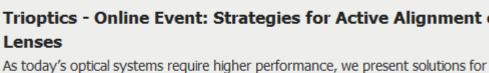


Lenses

electronic platform.



Featured Video





the alignment of doublets and triplets that guarantee smaller tolerances in a

shortened production time. At the beginning of the video, that is the recording of

an online event conducted on March 29, 2017, traditional alignment methods are...

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unique combination of ease-of-use and accurate measurement

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systems and thin-film coatings. Manufacturing from prototype to volume quantities, our products are primarily used in laser based

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full optical systems.

combined with low bubble & inclusion content. Optics may include windows, lenses, laser debris shields and mirror substrates.

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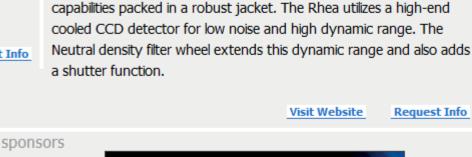
Innovation Dialog! SENSOR+TEST THE MEASUREMENT FAIR Nürnberg, Germany 30.5. –1.6.2017

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imaging. Structured Light 2017 is organized into two parallel conferences with

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applications.

Laser Science to Photonic Applications



SPIE Technologies and Applications of Structured Light 2017 features the latest advances in optical trapping and manipulation, pulse and beam shaping, and the applications of structured optical fields. These novel optical techniques combine

Industry Events

Welcome to the

imaging applications. Webinars

Technology Business Champions' Guide to Successful Commercialization Thu, Apr 13, 2017 1:00P - 2:30PM EDT This webinar, presented by David Krohn, Managing Partner of Light Wave Venture LLC, is for scientists, engineers and others seeking potential opportunities for marketing and selling a new technology, whether a product, a service or a groundbreaking idea. You will learn how to focus R&D with an eye toward commercialization; how to source funding and much more. The instructor has

over 50 years of experience in the photonics industry. A trained scientist turned businessman, Krohn has assisted more than 127 companies and organizations, working with key management on product development, commercialization, funding and acquisitions. Please note: there is a registration fee for this webinar.

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(Photonics Spectra, Industrial Photonics, BioPhotonics and EuroPhotonics). Please submit an informal 100-word

More Info

SPIE Technologies and Applications of Structured Light

some combined joint sessions: Optical Manipulation Conference and Biomedical Imaging and Sensing Conference. These two conferences comprise the full spectrum of advanced structured light technologies and biomedical sensing and

Technical Conference: 14 – 19 May 2017

