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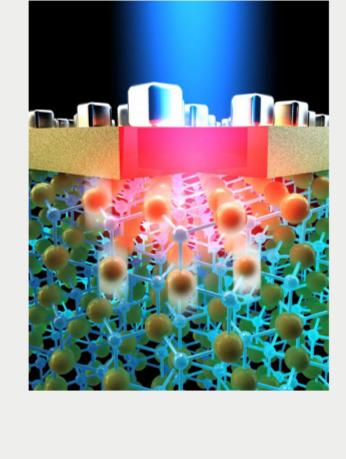
Meet the Editors Photonics West - Wednesday, February 5, 3:00 p.m. | Booth 658/659

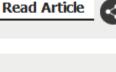
Plasmonics-Based Light Detector Could Support Precision

Agriculture

A new, broad-spectrum photodetector that can be implemented on a single chip has been developed at Duke University. The photodetector

spans a range of light frequencies by using on-chip spectral filters created with electromagnetic materials. The camera's technology is based on plasmonics — the use of nanoscale physical phenomena to trap specific frequencies of light.







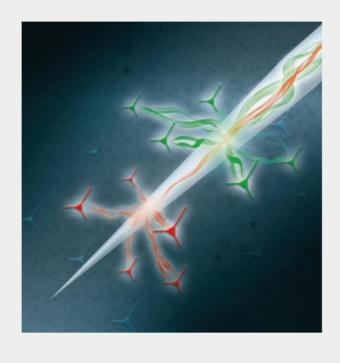


method to capture and pinpoint neural activity in the brain. The new method allows signals from various brain regions to be collected

Salento, and Harvard Medical School have developed a light-based

simultaneously through the use of a tapered optical probe.

Researchers from Istituto Italiano di Tecnologia (IIT), the University of



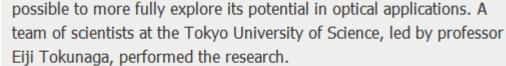
Electrode-Water Interface Produces Giant Pockels Effect for a 'Liquid' Light Modulator

Read Article





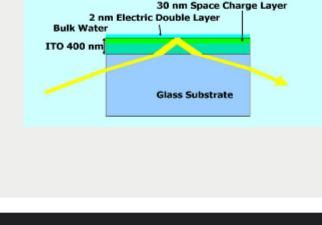




A new type of light modulator could lead to a better understanding of

how the Pockels effect occurs in different types of materials, making it

3 A B D Read Article



Canon Surface Reflectance

Canon U.S.A. Inc., Industrial

Modulated

Light





With interest in the superresolution microscopy field growing rapidly, the editors of

reveal never-before-seen worlds at the sub-cellular level,

Poster

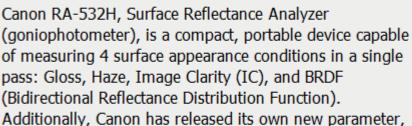
BioPhotonics magazine — in collaboration with

acknowledged experts — created a poster with readers in mind that is suitable for lab, classroom and office. It features visually stunning, high-resolution images that

Photonics Media

illustrating the value of the techniques. Request Info Visit Website sponsors PITTCON IS THE CLEAR ADVANTAGE.

AND OUR FOCUS IS ON YOU.



Analyzer

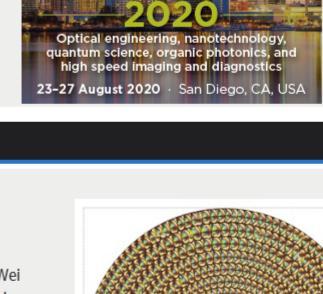
Products Div.

Field on

IC and DOI (Distinctiveness of Image) when evaluating matte and textured surfaces as well as orange peel surface. Request Info Visit Website SPIE.

"Scattering" parameter, overcoming the shortage of both





in most electronic displays. With a self-assembly process, they patterned arrays of liquid crystal microlenses into concentric circles.

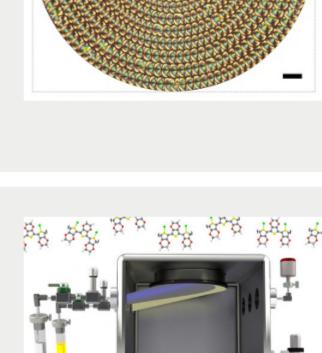
Read Article 3 A B 2

MIT researchers have improved on their initial version of a transparent, conductive coating material for solar cells and touch screens, producing

flexible material, an organic polymer known as PEDOT, is deposited in

Clear, Conductive Coating Could Protect Solar Cells,

a tenfold gain in its electrical conductivity. The high-performing,



an ultrathin layer just a few nm thick, using an oxidative chemical vapor deposition (oCVD) process.

Display Screens







3 A B D Read Article **More Headlines**

Harvard, MIT, Duke, US Army Team Up on Terahertz Technology Read Article Lynred Delivers IR Detector to MicroCarb Read Article

January 13-15, 2020 - Hilton Orlando Bonnet Creek - Orlando, Fla.

opportunity to meet with current and potential new suppliers; attend sessions covering topics ranging from the latest in automation to best practices; and network with more than 600 industry professionals.

System Uses Artificial Intelligence for Placental Analysis Read Article

SUSS MicroTec and BRIDG Establish New Applications Center in North America Read Article

Edmund Optics Announces 2019 Educational Award Recipients Read Article

Industry Events

A3 Business Forum 2020

The A3 Business Forum is the world's leading annual networking event for robotics, vision and imaging, motion control, and motor professionals. The A3 Business Forum 2020 will give attendees the

Vision Systems for Deep Learning Thu, Dec 12, 2019 1:00 PM - 2:00 PM EST

Attendees at the A3 Business Forum are leaders in the automation industry. They are from a broad range of companies including automation manufacturers, integrators, suppliers, and end users. More Info **Webinars**



problems that were once considered to be "nonsolvable" by machines can now be solved with an impressive level of accuracy and robustness. This webinar, presented by Basler, will give you an overview of three different types of vision systems that can be used to deploy a trained neural network in the medical and life sciences fields: Embedded; PC-based; and FPGA-based. The webinar will discuss how these system architectures differ in their total cost of ownership, in the engineering effort required to deploy them, and in overall system performance. Register Now

Algorithms for artificial intelligence are improving rapidly. In the medical and life sciences fields, in particular, many classification

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