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New Resources Added

Always Open

Efficiently A new dual-cavity design for a quantum emitter, from the

Two-Cavity System Generates High-Quality Single Photons

Massachusetts Institute of Technology (MIT), emits more high-quality single photons for carrying quantum information at room temperature than existing methods. The two-cavity system could make the development of quantum computers more practical.



Read Article



Amounts of Data Rapidly





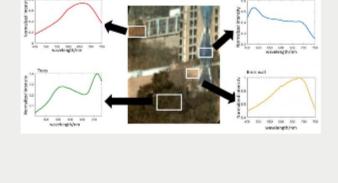
Researchers at Rice University have developed a compact, fiber-based image spectrometer for remote sensing. Called the Tunable Light-Guide Image Processing Snapshot Spectrometer (TuLIPSS), the device

Image Spectrometer Captures and Calibrates Record

combines high spatial resolution with large amounts of spectral information and can deliver data to a detector instantly. Read Article

Photonic Neural Network Can Store, Process Information

A new microchip contains a network of artificial neurons that works





with light and can imitate the behavior of the human brain's neurons and synapses. Researchers demonstrated that the optical neurosynaptic

network was able to learn information and use it as a basis for computing and recognizing patterns, similar to the way a human brain works. Read Article 3 A m 0



in Way Similar to Human Brain





Featured Products



Machine Vision is a new book for anyone designing or selecting

Machine Vision

Photonics Media

machine visions systems, and

implementing or considering the use of machine vision for a specific application. This engaging overview is a resource for designers, engineers, researchers, marketers and students looking for a broad survey of advancements in systems, components, and processes.

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Canon U.S.A. Inc., Industrial Products Div.

Canon Surface Reflectance

(goniophotometer), is a compact, portable device capable of measuring 4 surface appearance conditions in a single pass: gloss, haze, image clarity (IC), and BRDF

Additionally, Canon has recently released its own new parameter, "Scattering" parameter, overcoming the shortage of both IC and DOI (Distinctiveness of Image) when evaluating matte and textured surfaces as well as orange peel surface. Visit Website Request Info sponsors

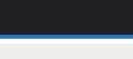
(Bidirectional Reflectance Distribution Function).

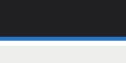
Analyzer



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Spectrum

Mirror

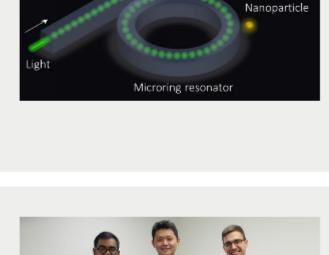
Sensing with Exceptional Surfaces Combines High Sensitivity with Robust Performance

be improved by introducing a sensor that is based on surfaces consisting of highly sensitive exceptional points (EPs), according to research performed by Michigan Technological University, Pennsylvania

State University, and the University of Central Florida.

The ability to optically detect nanoparticles and single molecules could

Read Article 3 A B D

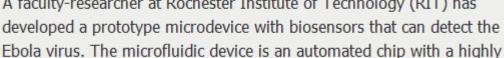


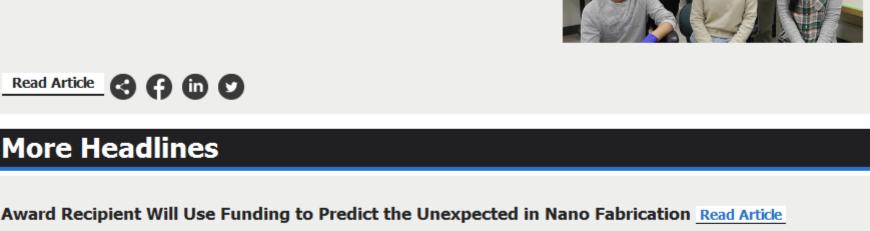
Ebola Virus in Minutes A faculty-researcher at Rochester Institute of Technology (RIT) has





sensitive fluorescence sensing unit embedded in it.







Industry Events

OSA Optical Interference Coatings 2019

More Headlines





Researchers Add Luminescence to Graphene Read Article

Diverse Optics Subsidiary Acquires Plastic Injection Mold Manufacturing Firm Read Article

June 2-7, 2019 - Hyatt Regency Tamaya Resort & Spa - Santa Ana **Pueblo United States** Held every three years, the OSA Optical Interference Coatings

conference brings together scientists, researchers, engineers, and

about the latest advancements in the field of optical interference

students from around the world to present, learn, and exchange ideas

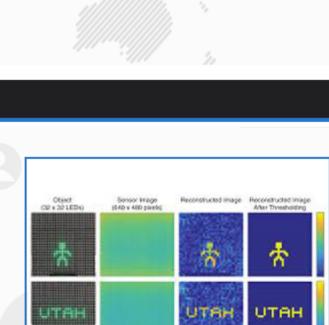
coatings. OIC 2019 will cover all aspects of optical coatings, including

fundamental research on coating design theory, materials, deposition methods, characterization technologies, and applications in electronic displays, optical communication, high-power and ultra-fast lasers,

sensing, solar cells, low-emissivity coatings, optical instruments, and space. More Info

Webinars From Lensless Cameras to Deep-Brain Microscopy: **Exploring the Potential of Computational Imaging** Tue, Jun 11, 2019 1:00 PM - 2:00 PM EDT This webinar will introduce you to the enormous potential of computational imaging for a range of industries, from manufacturing to machine vision to biophotonics. Professor Rajesh Menon will discuss several examples of computational imaging, including a "seethrough" camera, comprised of a transparent window with an image

sensor placed facing into the edge of the window; a snapshot hyperspectral imaging camera; and an approach to deep-brain imaging that utilizes only an ultrathin surgical needle to transport light in and out of a mouse brain. Menon will discuss the underlying technologies, their limitations, and additional potential applications for lensless cameras. Register Now



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