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Quantum Dots Enhance Stability of Perovskites for Solar

Power

A team from the University of Toronto is researching materials that could enhance the solar-harvesting potential of silicon by absorbing

wavelengths of light that silicon does not absorb. The researchers have demonstrated that perovskite crystals and quantum dots, working together, could increase the stability of solar materials.



Laser Beam Helps Protect Signal Proteins Used for Tissue

Engineering







can kill more than 90% of the proteins' functionality.

A University of Washington research group has used laser light to tether and untether signal proteins to the scaffolds used in tissue engineering. Traditional methods used to keep proteins on scaffolds

Quantum Interferometry Reveals How Coherent Phonons Are Generated Scientists at Tokyo Institute of Technology and Keio University wanted to investigate ways to store, move, and process information at exponential speeds using heat and noise (also known as waste

vibrations). To do so, they studied the excitation and detection of

photogenerated coherent phonons in gallium arsenide (GaAs)

semiconductors using an ultrafast dual pump-probe laser. Read Article 🚷 🚹 📵 💟

Defense & Aerospace

developments, Defense &

Drawing mainly from the pages of

Aerospace offers an overview of

Photonics Media



Canon Surface Reflectance

Canon U.S.A. Inc., Industrial







Photonics Spectra and focusing on the last decade or so of

Defense

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these industries as only Photonics Media can present it — from laser paint removal and laser

bonding in aerospace, to breakthroughs in quantum sensing. It is a resource for designers, engineers, researchers, marketers, and students looking for a broad survey of advancements in optic and photonics technologies and their applications in defense and aerospace. Request Info

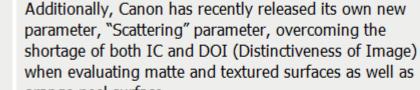
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Q&A's

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Presentations





Canon RA-532H, Surface Reflectance Analyzer

pass: gloss, haze, image clarity (IC), and BRDF

(Bidirectional Reflectance Distribution Function).

Analyzer

Products Div.

(goniophotometer), is a compact, portable device capable

of measuring 4 surface appearance conditions in a single

orange peel surface. Request Info Visit Website SEMICON®WE BEYOND SMART

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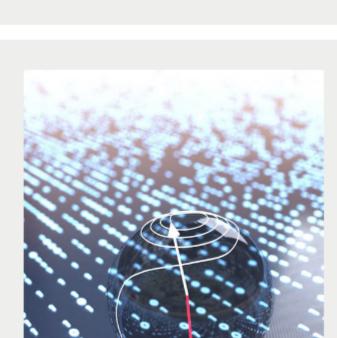


manipulated with magnets to create lenses in a variety of shapes and sizes.

Molds

processing using light pulses instead of electricity. The team used magnets to create faster data processing speeds without incurring high energy costs.

Superfast Computing Method Uses Terahertz Light Pulses An international team has discovered how to perform superfast data





More Headlines



Machine Vision Conference and Expo 2019

June 6, 2019 - Marshall Arena - Milton Keynes England

The 2019 UKIVA Machine Vision Conference and Exhibition will take place on June 6 at the Marshall Arena in Milton Keynes, England. Now

program of technical seminars supported by an exhibition featuring

vision component manufacturers, vision component and system distributors, and systems integrators from around the world. The 2019 Conference will feature an additional theme, covering vision

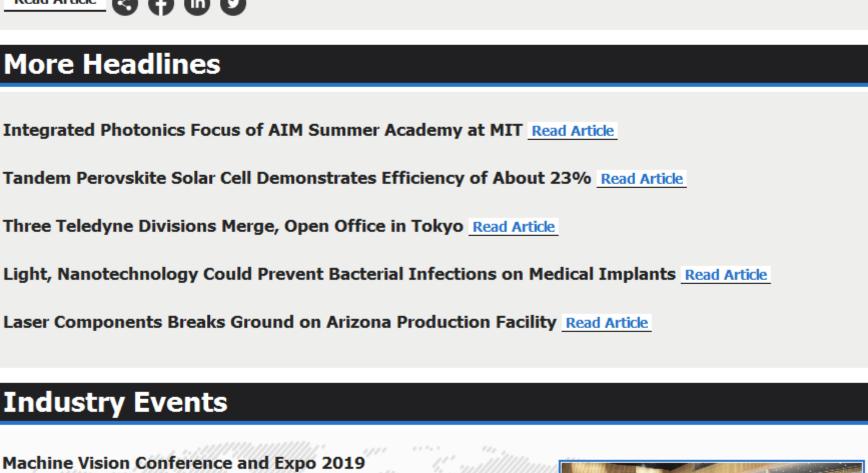


Industry Events

applications in automation and robotics.

in its third year, the conference has become increasingly popular with attendance figures in 2018 up 17% compared to 2017. The event will follow a similar format to previous years, with a comprehensive

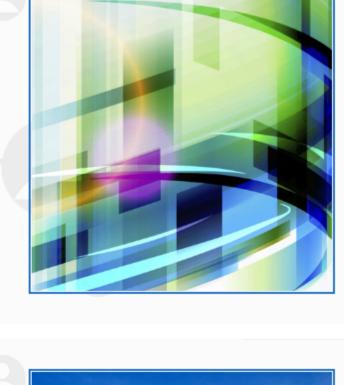
Webinars VCSELs and Their Role in the Evolution of Photonic Systems Wed, Jun 5, 2019 1:00 PM - 2:00 PM EDT In this webinar, professor Axel Scherer, who with Jack Jewell created the first prototypes for VCSELs while Scherer was at Bellcore in the 1980s, will discuss his role in the development of these miniature lasers and how their use has evolved as the technology has progressed. Scherer will discuss VCSEL design, lasing characteristics, and the capabilities that make VCSELs well suited for use in today's photonic and optics applications, compared with other technologies such as LEDs.



Register Now Stabilizing the Line of Sight: LOS Dynamics and Control

This webinar, presented by the author of Stabilizing the Line of Sight

More Info



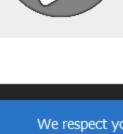
(Photonics Media Press, 2018), will provide an overview of the issues and topics that must be addressed to successfully implement Line of Sight (LOS) control and stabilization design. Presenter Peter Kennedy

Thu, Jun 6, 2019 1:00 PM - 2:00 PM EDT

will cover LOS pointing, tracking, and stabilization, with a focus on LOS definition, performance, architecture, and basic theory. He will provide a general methodology for LOS stabilization system design and identify critical algorithms for analyzing stabilization techniques. The objective of the webinar is to provide attendees with a firm grounding in LOS stabilization, so that they will be able to address the detailed design tasks required to perform an actual design. Register Now

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