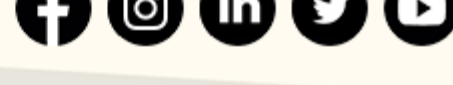


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Top Stories

A New Use for Quantum Dots – Tracking the Pollination Process

A pollination biologist from Stellenbosch University is breaking new ground in his field by using quantum dots to track and label individual pollen grains. His novel, low-cost method could enable biologists to track the whole pollination process, from the first visit by a pollinator to the endpoint.

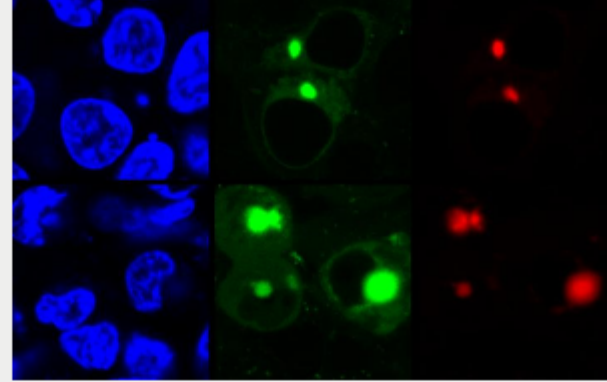


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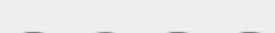


New Fluorogenic Method Can Simultaneously Detect Aggregation of Two Proteins in Live Cells

Researchers from Pennsylvania State University and the University of Washington re-engineered a fluorescent compound and developed a method by which two different proteins can fluoresce at the same time as they misfold and aggregate inside a living cell, highlighting forms that could play a role in several neurodegenerative diseases.

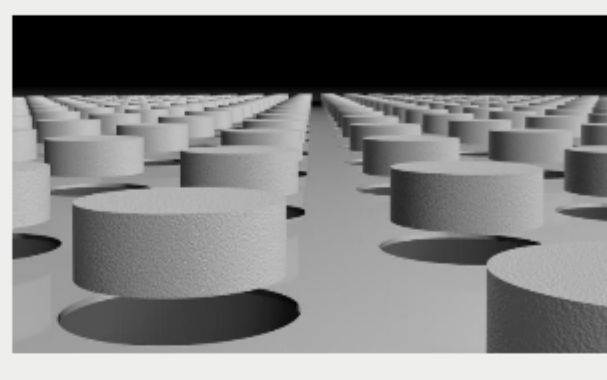


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With a Few Tweaks, a Near-Perfect Absorber Can Become a Time-Reversed Laser

With small adjustments, a near-perfect absorber of electromagnetic waves can be changed into a coherent perfect absorber (CPA), a device that absorbs coherent light and shows near-zero reflectance and high absorption.



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Uniform Coatings for Cylindrical Parts

Deposition Sciences Inc. (DSI)
Obtaining uniform coatings on tubes and cylindrical parts is

inherently challenging due to the line of sight nature of most thin film deposition processes, but can be accomplished in sputtering by utilizing innovative tooling techniques. Tubes and cylinders are used in a range of applications, including solar simulation...

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Unique technology comes from evolution, combining existing and new technology. When PCO's tried

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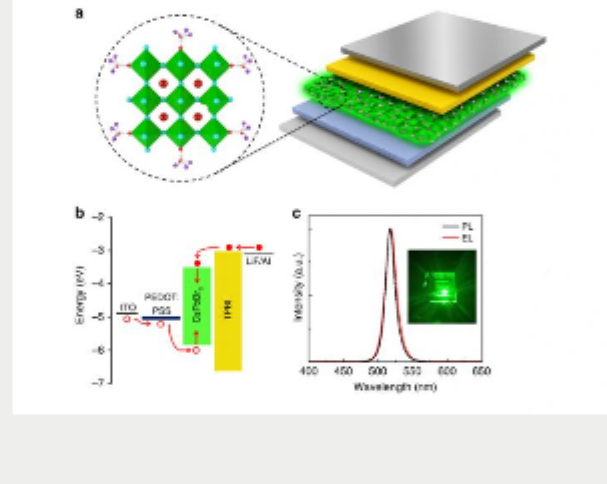
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Improving the Stability and Optical Properties of Perovskite Films

A new approach to producing all-inorganic perovskite films — the result of a joint research effort by City University of Hong Kong (CityU) and Shanghai University — could further the development of high-color-purity, low-cost perovskite LEDs with a high operational lifetime.

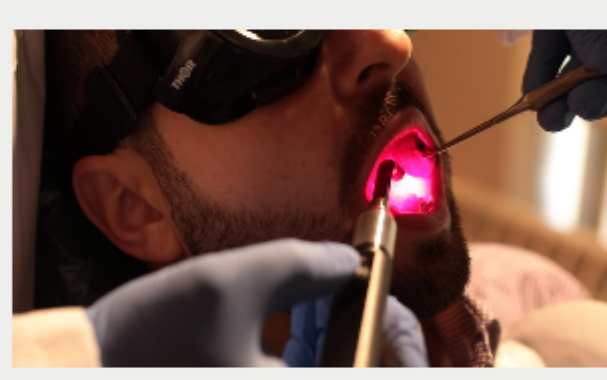


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Scientists to Test Light Therapy as Relief from Side Effects of Cancer Treatment

University at Buffalo (UB) researchers have received part of a \$1.5 million grant to investigate light therapy as a replacement for prescription opioids in treating oral mucositis, painful ulcers, and swelling in the mouth that result from chemotherapy and radiation treatment for cancer.



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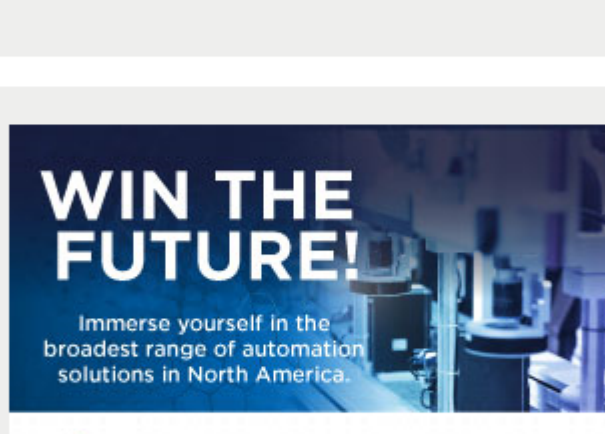
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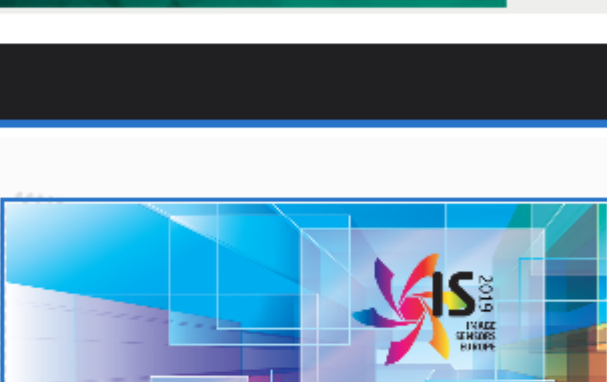
Industry Events

Image Sensors Europe 2019

March 13-14, 2019 - Park Plaza Hotel, Victoria London - London England

Image Sensors Europe 2019 will offer end-users, camera system suppliers, sensor design houses, technology developers, and optics suppliers the chance to network with other attendees from across the image sensing value chain. Attendees will hear from leading companies in the sensors market including Sony, LFoundry, On Semiconductor, Amazon Lab126, Panasonic and more and will gain a comprehensive view of future trends within the industry.

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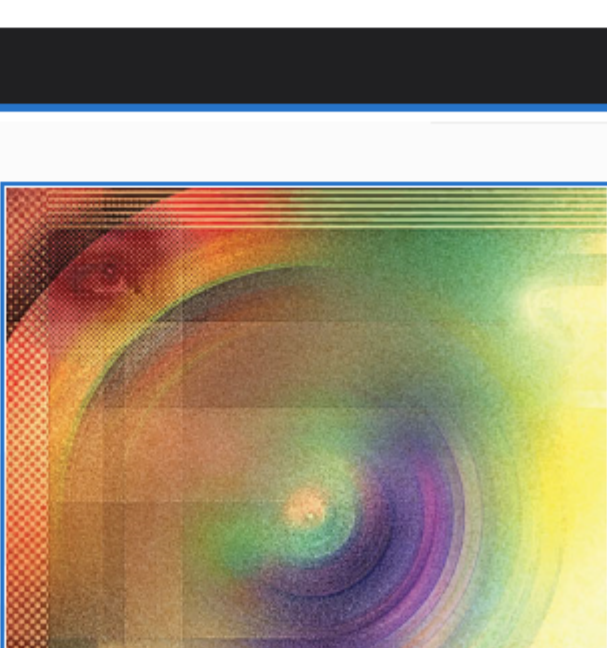
Webinars

Emergence of Freeform Optics in Imaging Systems: A Leap Forward

Wed, Feb 27, 2019 1:00 PM - 2:00 PM EST

This webinar will provide an overview of freeform optics. Following a brief introduction, the presenter will discuss the historical context and descriptions for freeform optics. She will then present mathematical models and the latest methods of optical design. As time allows, she will discuss some of the primary fabrication techniques and provide a short update on freeform metrology. This webinar is sponsored by Greenlight Optics and LightPath Technologies.

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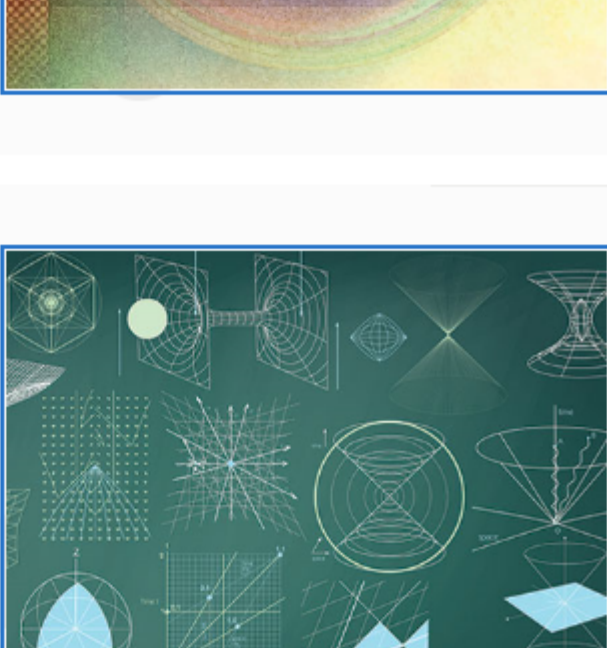


Deep Learning in Machine Vision

Tue, Mar 5, 2019 10:00 AM - 11:00 AM EST

This webinar will give users of machine vision software insight into deep learning technologies and the possibilities that deep learning offers for machine vision applications. The presenter will introduce deep learning technologies based on MVTec HALCON and provide an overview of deep learning machine vision applications. He will also cover some of the best practices for developing and setting up deep learning applications. This webinar is sponsored by Euresys, Smart Vision Lights, Integro Technologies, and IDS Imaging Development Systems GmbH.

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