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PHOTONICS MEDIA



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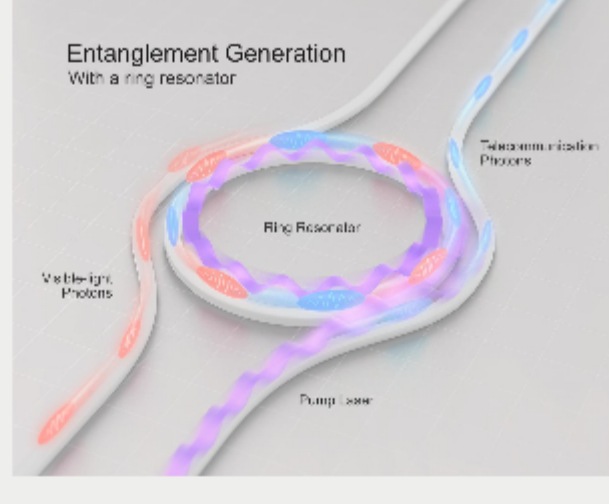
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Top Stories

Visible-Telecom Entangled Photon Pairs Could Support Quantum Communication

Researchers at the National Institute of Standards and Technology and the University of Maryland have created entangled pairs made up of one visible photon and one NIR photon to facilitate quantum communication.

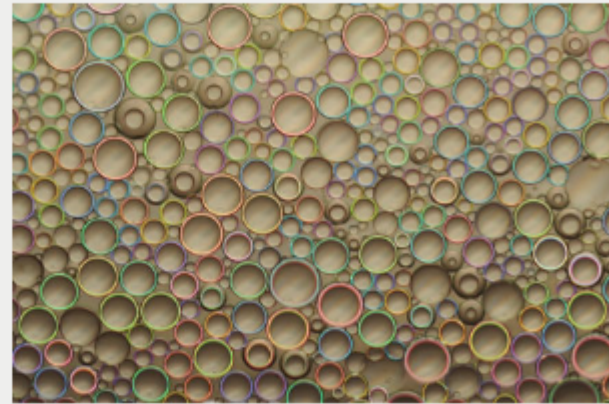


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Research Team Discovers How to Create and Control Structural Color

Researchers have shown how a clear surface covered in transparent droplets and lit with a single white-light lamp can produce bright, iridescent colors if each droplet is precisely the same size. "Structural color" is formed based on the size and curvature of the droplets, along with the droplet's total internal reflection.

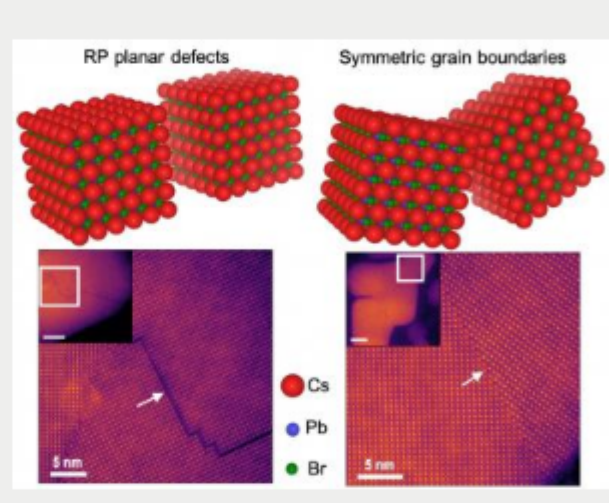


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Defects in Perovskites Could Have Positive Impact on Optoelectronic Devices

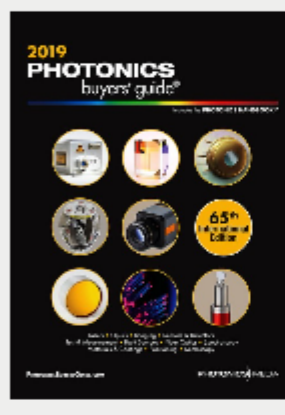
In a quest to design more efficient solar cells and LEDs, engineers analyzed different types of defects in the semiconductor material that enables such devices to determine if and how these defects affect performance.



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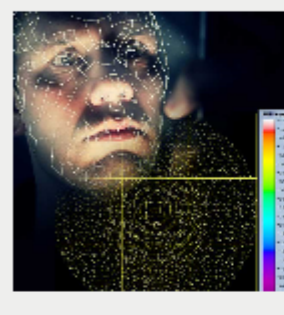
Featured Products



The 2019 Photonics Buyers' Guide

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If you buy products and services related to lasers, optics, imaging, sensors, detectors, test and measurement, light sources, fiber optics, spectroscopy, materials and coatings -- you need the Photonics Buyers' Guide. Our editors verify all 4000+ company listings annually, making it the most trusted, accurate and comprehensive global photonics buyers' resource available.

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Near-IR Light Measurement Software

Radiant Vision Systems, Test & Measurement
Part of the Radiant Vision Systems family of automated photometric test and measurement software, the near-infrared light measurement software module (TT-NIRI) provides all of the benefits of Radiant's TrueTest software test sequencing platform to efficiently perform image-based measurements of 940 nm near-infrared (near-IR or NIR) LEDs, lasers, and Diffractive Optical Elements (DOE) used for:

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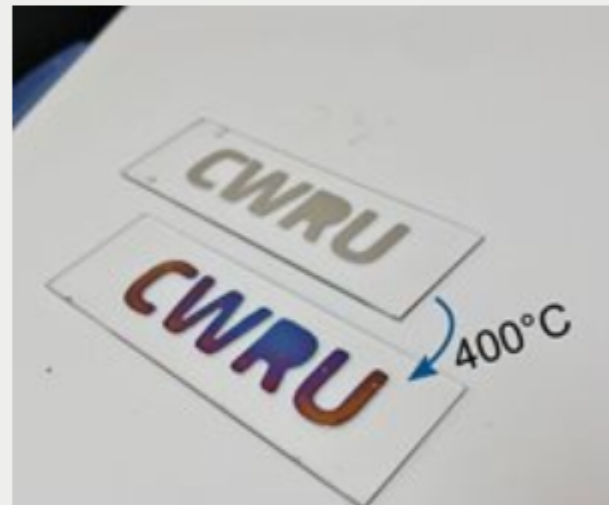
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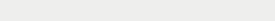
More News

Thermally Painted Metasurfaces Yield Perfect Light Absorbers for Sensing, Solar, Stealth Technologies

A 3000-year-old metallurgy technique of heating metal to create vibrant colors creates a nanostructured surface that can act as a perfect light absorber, researchers from Case Western Reserve University have found. The team applied its findings to create a nickel thin-film that perfectly absorbs red light.



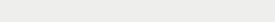
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New Research Seeks Solution to Deploying QKD Technology Over Fiber Optics

The National Institute of Information and Communications Technology is researching potential encryption methods for quantum communication that could be integrated into fiber optic networks. The research focuses on how to achieve secure communication using continuously variable quantum key distribution (QKD).

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More Headlines

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Industry Events

LASER World of Photonics China 2019

March 20-22, 2019 - Shanghai New International Expo Centre - Shanghai China

Photonics Media Booth: OW6.6528

LASER World of PHOTONICS CHINA, Asia's largest trade fair for the photonics industry, will present the full spectrum of photonics technologies – including components and manufacturing equipment – in an international setting, tailored to the specific needs of the Chinese market. Technical conferences such as the International Laser Processing and Systems Conference LPC will feature leading international experts. PHOTONICS CHINA will be co-located with electronica China, productronica China and SEMICON China, creating added value for attendees.



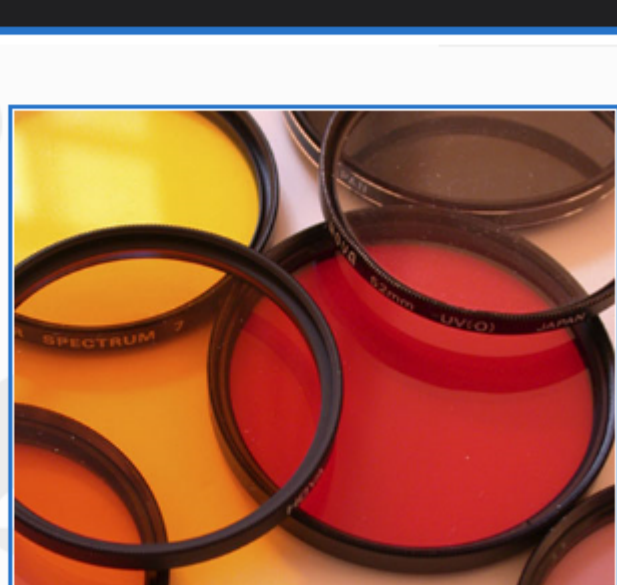
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Webinars

A Bird's-Eye View of AR Coatings, from Concept Through Production

Tue, Mar 12, 2019 1:00 PM - 2:00 PM EDT

This webinar will present the concepts and design principles of antireflection (AR) coatings, the most common optical thin-film coating produced today and for more than 80 years. It will discuss the equipment used in AR coating production and the process aspects of AR coatings. Many other types of coatings have evolved from these same principles, and the focus of the webinar will be on AR coatings. The webinar is sponsored by North American Coating Laboratories, Satisloh GmbH, Bühler Leybold Optics, and Newport Thin Film Laboratory, Inc.

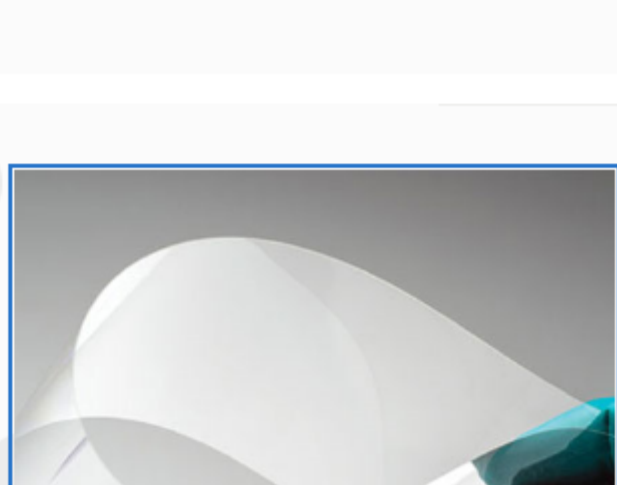


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Flexible Glass Substrates for Electronic and Optoelectronic Applications

Thu, Mar 14, 2019 1:00 PM - 2:00 PM EDT

This webinar will encourage activity in the growing field of flexible glass, including the design and performance of electronic and optoelectronic devices for thin, lightweight, and flexible or curved applications. Presenter Sean Garner will discuss the properties of flexible glass - including flexible Corning Willow Glass - and provide examples of emerging applications, device designs, and fabrication processes.



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