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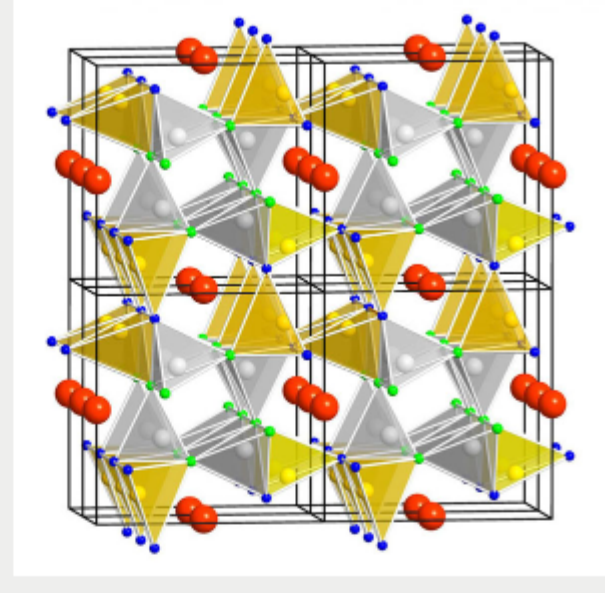
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Top Stories

New Red Phosphor Could Make LEDs More Energy-Efficient

A team at the University of Innsbruck, in cooperation with OSRAM Opto Semiconductors, has synthesized a new high-performing red phosphor for LEDs that could make LED lighting more energy-efficient. The new phosphor, called SALON by the researchers, has slightly shifted the light emission from red toward blue.



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NIST Study Will Help Industry Understand and Use Laser Welding

A better understanding of the interaction between laser and metal could give industry more control over laser welding, according to a three-year study in laser welding conducted by the National Institute of Standards and Technology (NIST).

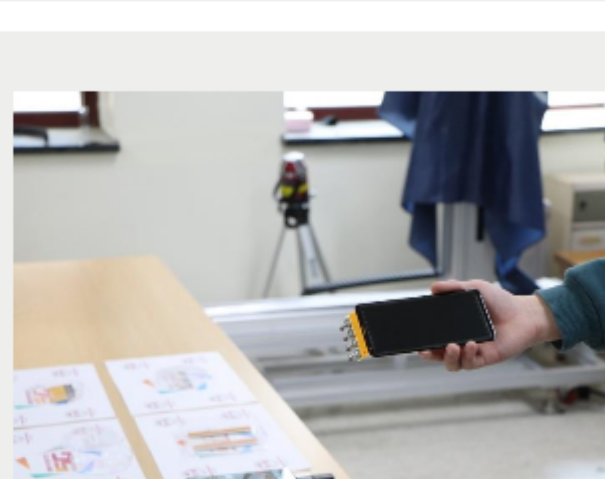


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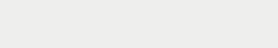


Optically Invisible Antennas Could Empower 5G Devices

Researchers at Pohang University of Science & Technology (POSTECH) developed a way to build optically invisible antennas that could be embedded within superresolution displays. The Antenna-on-Display (AoD) technology could provide an alternative to conventional antenna technology for 5G devices.



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Featured Products

Machine Vision

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Machine Vision is a new book for anyone designing or selecting machine vision 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 Surface Reflectance Analyzer

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

Canon RA-532H, Surface Reflectance Analyzer (goniophotometer), is a compact, portable device capable of measuring 4 surface appearance conditions in a single pass: gloss, haze, image clarity (IC), and BRDF (Bidirectional Reflectance Distribution Function).

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.

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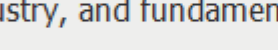
More News

Study of Laser/Plasma Interactions Moves Forward with Scalable 3D Simulation Tool

Researchers from Lawrence Berkeley National Laboratory (Berkeley Lab) and CEA Saclay simulated laser/plasma coupling mechanisms using a new 3D particle-in-cell simulation tool. A more detailed understanding of laser-plasma interactions could contribute to the development of novel particle and light sources for application in medicine, industry, and fundamental science.



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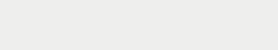


Understanding Angular Momentum Flow During Demagnetization Could Improve Data Storage

A team led by scientists at Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy (MBI) sought to better understand the flow of angular momentum during ultrafast optical demagnetization in a ferromagnetic material.



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More Headlines

International Day of Light Emphasizes the Inclusion of Women and Girls in STEM [Read Article](#)

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Holographic Technique Can Encode Information at Nanoscale [Read Article](#)

RPMC Lasers Expands Relationship with BWT Beijing [Read Article](#)

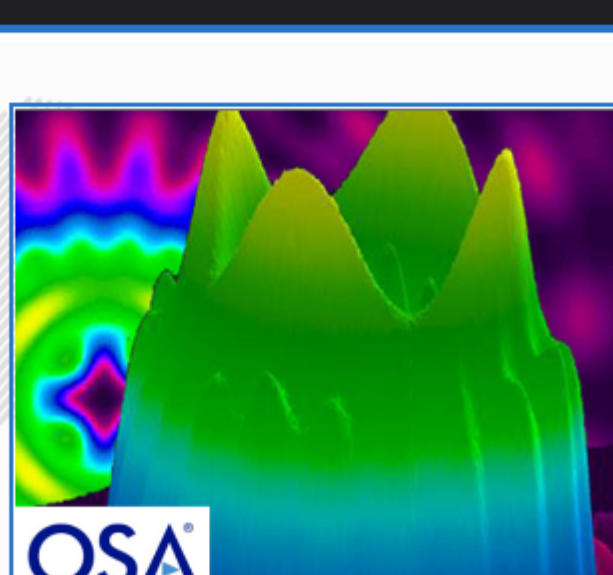
Basler Inc. Celebrates 25th Anniversary [Read Article](#)

Industry Events

OSA Digital Holography & 3D Imaging 2019

May 19-23, 2019 - Bourdeaux France

The Digital Holography and Three-Dimensional Imaging meeting will provide a forum for learning about digital holographic, 3D imaging, and display methods. The conference will cover interferometry, phase microscopy, novel holographic processes, 3D and novel displays, integral imaging, computer-generated holograms, compressive holography, full-field tomography, specific image and signal processing, and holography with various light sources including coherent to incoherent and X-ray to terahertz waves. This will be an interdisciplinary conference with a broad field of applications in biomedicine, biophotonics, nanomaterials, nanophotonics, and scientific and industrial metrologies. Image courtesy of OSA, The Optical Society.



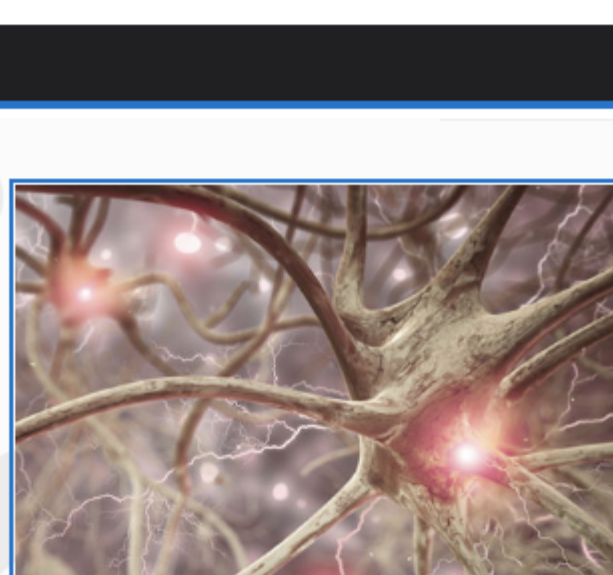
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Webinars

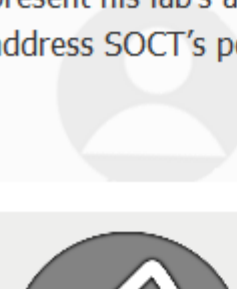
Spectroscopic OCT: Seeing Under the Skin with Depth-Resolved Spectroscopy

Tue, May 14, 2019 1:00 PM - 2:00 PM EDT

This webinar, presented by Adam Wax, Ph.D., will introduce new methods for evaluating skin injury using spectroscopic measurements based on coherence imaging. These methods were developed by Wax and his group at the Biomedical Interferometry, Optics and Spectroscopy (BIOS) lab at Duke University. Wax will discuss spectroscopic OCT (SOCT), an extension of OCT technology for analyzing structural as well as spectroscopic information. He will present his lab's application of SOCT for burn injuries and also address SOCT's potential in the area of cancer detection.



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