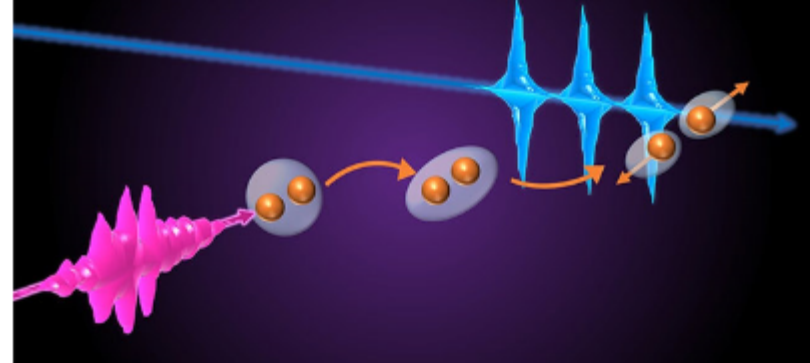




Weekly News



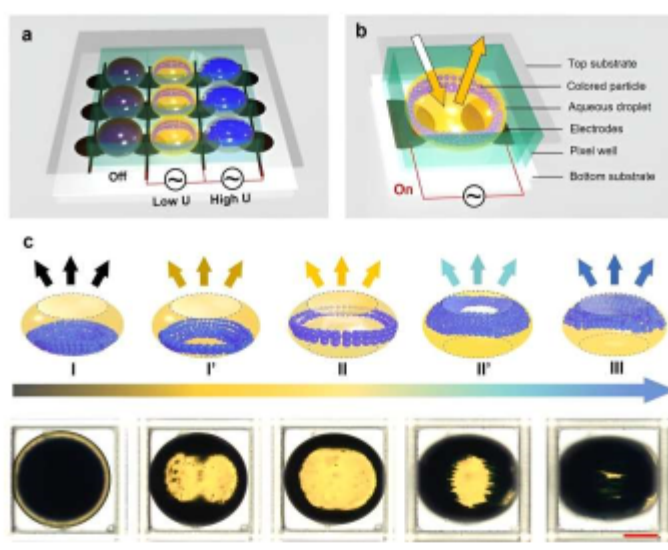
Shortwave Infra, Broadband Spectrum Solution Provider
State-of-the-Art of Customized Service and Simulation **WANT A QUOTE?**



EUV Sources Combine to Track Molecular Dissociation

Reportedly for the first time, scientists have combined a broadband extreme-ultraviolet probe pulse from high-order harmonic generation with a free-electron laser pump pulse to observe photodissociation pathways leading to fragments in different quantum states. The team, led by Christian Ott at the

Max-Planck-Institut für Kernphysik, temporally resolved a quantum mechanical dissociation mechanism of a specific O₂⁺ state into two competing channels by measuring the resonances of ionic and neutral fragments. [Read Article](#)



Optofluidic Fabrication Yields Any-Environment Reflective Display

As an improvement on current reflective displays, researchers led by the International Joint Laboratory of Optofluidic Technology and System at South China Normal University, developed a reflective display fabrication technique that yielded a display with the desired qualities — fast switching speed, color, bistability, and viewing angle — that commonly fall short in current reflective display

technologies in such strong-light environments. The approach is based on the previously demonstrated electro-microfluidic assembly of particles (eMAP) strategy. [Read Article](#)



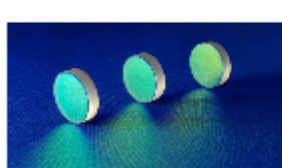
Lasers, Spectroscopy, and OCT Cut Bone Safely

Researchers at the University of Basel have developed a system that increases the safety and precision of lasers used to cut bone in surgical settings. The system is able to cut bone, control the cutting depth, and differentiate between tissues, using a cutting laser, imaging system, and spectroscopy.

[Read Article](#)



Featured Products & Services



Notch Filters

Deposition Sciences Inc. (DSI)

DSI designs and manufactures notch and bandpass filters, beamsplitters, ARs and absorption coatings for use in the VIS to the MWIR wavelength regions, customized to specific requirements. Using photolithography, we can also pattern these coatings with feature sizes as small as 20 μm to define apertures, segments and/or fiducials.

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Optical Filters for Sensing and Imaging

Iridian Spectral Technologies

Iridian designs and

manufactures custom wavelength selective optical filters between 300 nm to 15 μm, providing “more signal, less background” to applications employing remote sensing, detection, and imaging such as Earth observation, lidar, machine vision, M/LWIR gas detection.

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More News

[James Wyant, University of Arizona College of Optical Sciences Namesake, Dies at 80](#)

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[\\$10B Earmarked for Development of Extreme-UV Lithography Center](#)

[BAE Systems Is Recipient of First CHIPS Act Funding Award](#)



Latest Webinars



Laser Application for Display Manufacturing

Tue, Jan 16, 2024 10:00 AM - 11:00 AM EST
Displays are windows into the connected world as nearly every consumer device today has a display and a smartphone without one is impossible to imagine. To produce state-of-the-art displays lasers must be utilized, especially to create high-end and high-resolution designs. Dr. Oliver Haupt from Coherent focuses on OLED displays for smart phones as well as the adoption of OLED displays in the IT sector. He also addresses the incremental market opportunity for MicroLED displays from the very small range in AR to the very large 4K TV market. Finally, he explains how over the last few years more and more UV short wavelengths lasers have been required and implemented in production due to the display material combinations, increase of active display areas, and pixel sizes down to the micron level.

Sponsored by LightMachinery Inc.

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All Things Photonics



The almighty nanoparticle known as the quantum dot is enjoying its moment in the sun — after innovations involving its discovery and development earned three photochemists a share of the Nobel Prize in chemistry earlier this fall. **Peter Lodahl**, head of the Quantum Photonics Group at the University of Copenhagen/Niels Bohr Institute, director of the Danish National Research Foundation Center for Hybrid Quantum Networks, and founder of Sparrow Quantum, sheds light on the durability of quantum dots. Sparrow, a developer of quantum light-matter interfaces, has pioneered quantum dot-based technology to support the pursuit of at-scale photonic quantum computing.

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