

This Week in PHOTONICS

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Thermal Infrared Imaging for Fire Research Analysis



Free Webinar 2023, Oct. 18 Register here!

Top Stories

Optifab 2023 to Showcase the Latest in Optical Manufacturing

SPIE Optifab 2023, North America's largest optical manufacturing conference and exhibition, will be held Oct. 16-19 at the Joseph A. Floreano Riverside Convention Center in Rochester, N.Y. The conference will focus on the latest in optical fabrication technologies and will feature expert-led presentations. Attendees will also be able to attend a multiday industry exhibition and courses.

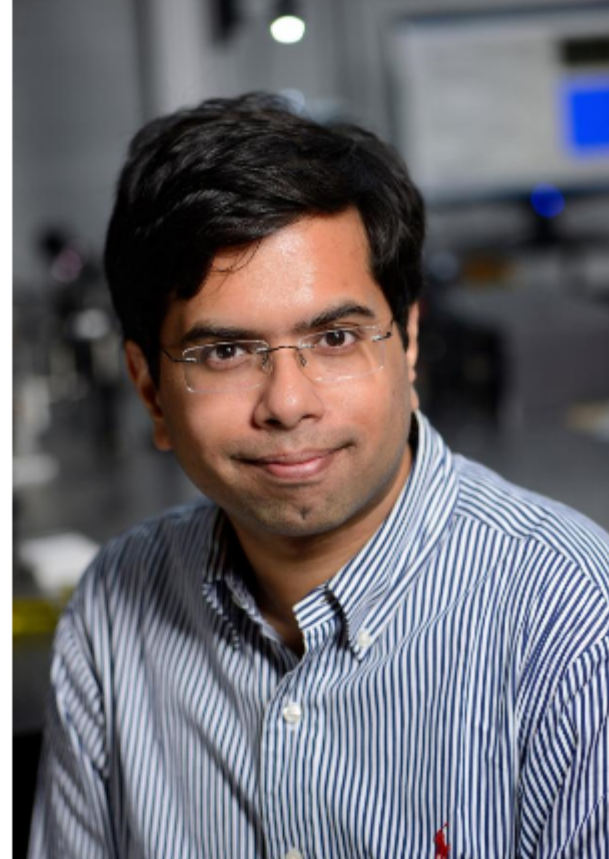
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Microscopy Methods Combine to Detect Treatment-Resistant Cancer Cells

Therapy-induced senescent (TIS) cells are cancer cells that become resistant to therapies and enter a dormant stage. To provide insight into how TIS cells evolve, it is crucial to develop simple, reproducible methods to study the onset and progression of these cells in human cancer cell cultures. An international team from Johns Hopkins University and Italy's Politecnico di Milano, Fondazione Istituto Nazionale dei Tumori, and Consiglio Nazionale delle Ricerche developed a noninvasive, multimodal imaging technique to allow early identification of TIS cells. The new technique could improve clinical outcomes by enabling more comprehensive research into treatment resistance in cancer cells.

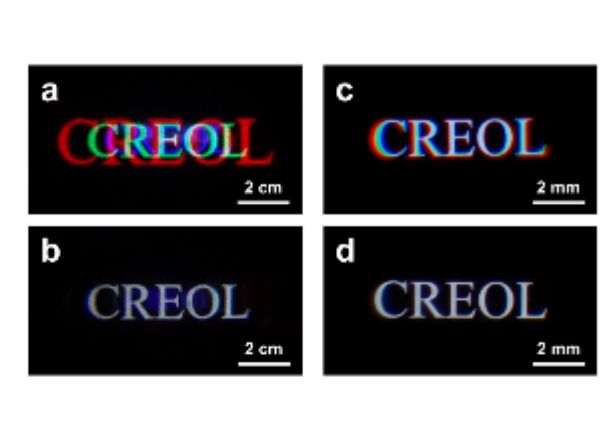
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LC Optics Support High-Performing VR Display in Compact Device

Virtual reality (VR) and mixed reality (MR) devices are used to access applications in a growing number of fields, from entertainment to health care to manufacturing to tourism. These applications are transforming the way that people perceive and interact with digital information, and they underscore the need for near-eye displays that are both functional and comfortable for long-term use and wear. Researchers at the University of Central Florida, the College of Optics and Photonics (CREOL), are working to improve the user's experience with VR and MR by developing a way to make these devices both comfortable and high-performing.

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Upcoming Webinars

Advancing and Extending the Spectral Range for Imaging in Fluorescence Microscopy
Wed, Oct 18, 2023 10:00 AM - 11:00 AM EDT
This presentation discusses the advances in fluorescence illumination and detection in biological microscopy, expanding research capabilities from visible to SWIR spectral ranges. New versatile light sources and an innovative InGaAs camera system enable precise excitation and imaging of fluorophores in biomedical applications, including in vivo and intra-vital microscopy. The incorporation of NIR and SWIR wavelengths allows visualization of previously unseen features with deeper imaging capabilities. The X-Cite® light sources deliver high excitation power across UV, VIS, and NIR, while the PCO® InGaAs camera ensures seamless imaging, making them essential tools for advanced biomedical research. Presented by Excelitas Technologies Corp.

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A Behind-the-Scenes Look at Creating Quality Parts Using Laser Welding
Tue, Oct 31, 2023 10:00 AM - 11:00 AM EDT
To create successful welds, many parameters must be kept within specifications, including laser power at the workpiece, beam quality, focal plane, hitting the seam, cleanliness of parts, gap between parts, welding speed, and machine accuracy. Some parameters need to be checked pre-processing to avoid scrap. Others should be measured during the process to avoid failures. In this webinar, Ophir and Lessmüller join forces to offer a full picture of the measurements needed during the laser welding process. Presented by Ophir and Lessmüller Lasertechnik.

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All Things Photonics

Longtime photonics market analyst and current industry adviser **Tom Hausken** delivers his expert insights into top-of-mind trends and drivers for the photonics sector. The prevalence of AI in and for photonics technologies permeates a conversation that also explores integrated photonics workforce development, government and policy perspectives, and technological competitiveness. Sponsored by **Teledyne Judson Technologies**.

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