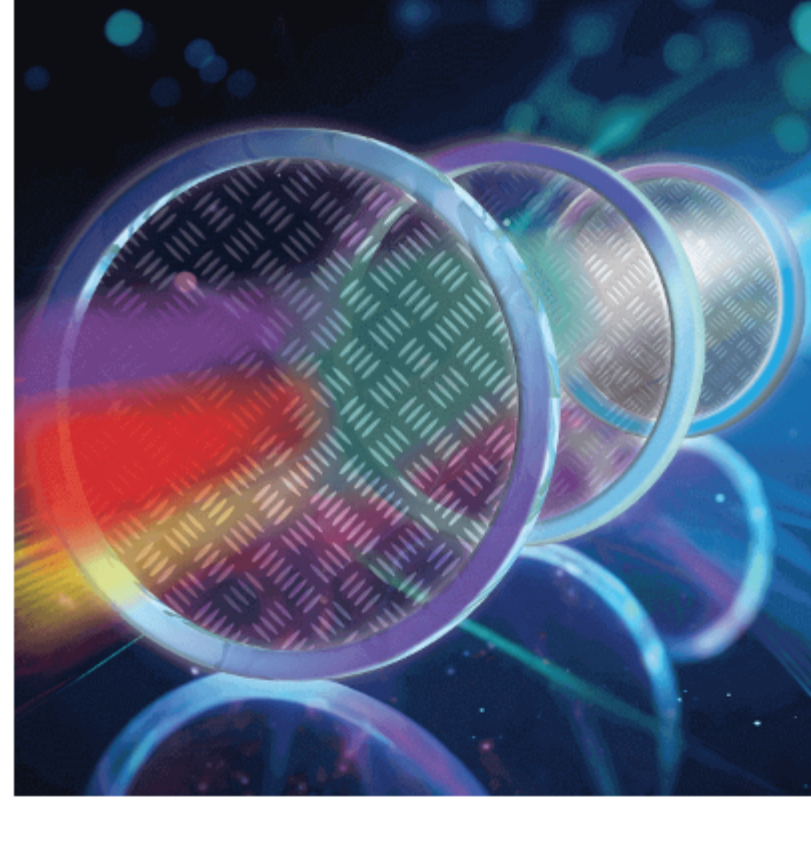




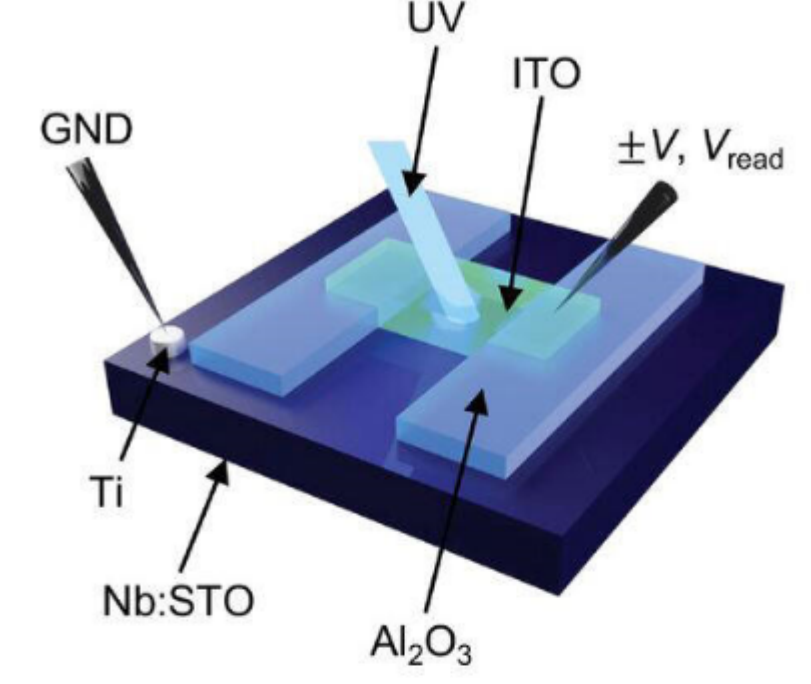
## Weekly News



### Compact Thermal Imaging System Created with Spinning Metasurfaces

Researchers have developed a technology that uses meta-optical devices to perform thermal imaging. The approach captures richer information about imaged objects, including spectral and polarization details, which could broaden the use of thermal imaging in fields such as autonomous navigation, security, thermography, medical imaging, and remote sensing.

[Read Article](#)



### Optical Device Enables Edge Computing

Researchers at the Tokyo University of Science developed an optical device with features that support physical reservoir computing and allow real-time signal processing across a broad range of timescales within a single device. Applied physics professor Kentaro Kinoshita and his team created a device using Sn-doped In<sub>2</sub>O<sub>3</sub> and Nb-doped SrTiO<sub>3</sub>, which responds to both electrical and optical signals.

[Read Article](#)



### SPIE Names 2024 Society Award Winners

SPIE's Awards Committee has named the recipients of its annual awards, recognizing achievements in photonics research, education, industry, and community leadership. The awards span a broad range of technical and professional areas, including medicine, metamaterials, moiré photonics, liquid crystals, attoscience, and nanophotonics.

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## Featured Products & Services



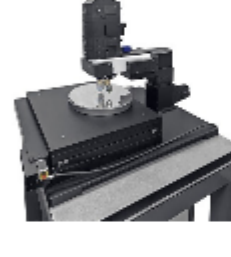
### CO<sub>2</sub> Laser Glass-Processing

**NYFORS Teknologi AB**  
CO<sub>2</sub> laser glass-processing is

designed to produce high-power and sensitive photonic components and complex structures. It guarantees contamination-free processing for fiber linear, 2D and gapless array splicing, ball lensing, end-capping, and many other challenging processes.

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### Semiconductor Raman Microscope

**WITec GmbH**  
The alpha300 Semiconductor

Edition from WITec is a Raman microscope configured especially for semiconductor research and development. Allowing space for the Raman imaging of wafers on a bigger scale, the microscope features a large-area scanning stage that helps characterize chemical composition, crystal quality, strain, and doping in up to 300-mm (12 in.) wafers.

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## More News

[Novel Optical Crystal Lights the Way to Next-Gen Laser Tech](#)

[Nanoparticles Enable Laser-Controlled Soft Robotics](#)

[Photonics Tech Shines at CES 2024](#)

[Synopsys Acquires Ansys in \\$35B Deal](#)

## Latest Webinars

### Dual-Comb Ranging for Industrial Applications

Tue, Feb 13, 2024 10:00 AM - 11:00 AM EST

Researchers developed a simplified variation of the dual-comb ranging (DCR) technique: two-photon dual-comb LiDAR, which allows data to be collected using time-tagging electronics. The switch from high-bandwidth digitization to time-tagging represents a significant reduction in the data burden associated with DCR. Despite the simplifications made, these demonstrations show comparable measurement precision to the conventional technique. In this webinar, Hollie Wright, Ph.D., discusses the technique and explains the many advantages it offers compared to conventional DCR. She shares results from various demonstrations including multi-target and target pose sensing and shares as-yet unpublished results from demonstrations with non-cooperative targets. Finally, Wright discusses the outlook for the technique and future work plans.

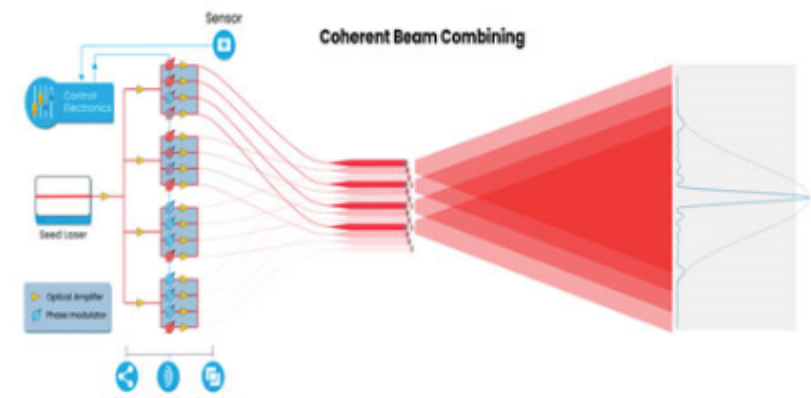
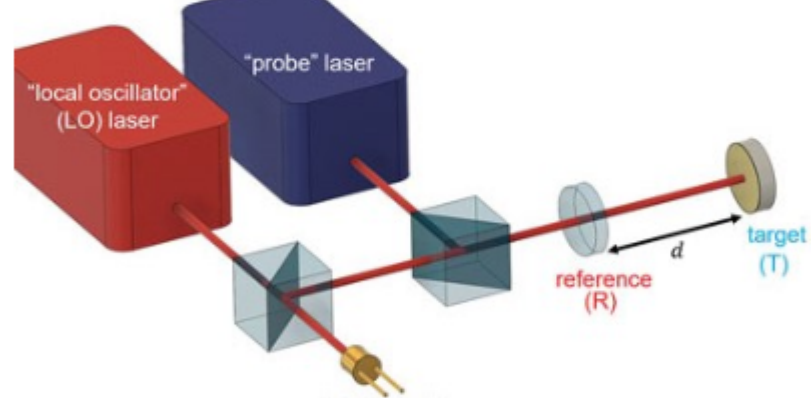
[Register Now](#)

### From Theory to Practice: Coherent Beam Combining's Impact on Laser Technology

Thu, Feb 15, 2024 10:00 AM - 11:00 AM EST

This presentation shines a spotlight on the transformative laser technology known as coherent beam combining (CBC). While this technology has been known for decades, it only recently has been introduced into commercial applications, with Civan Lasers emerging as a leading player in the field. With this webinar, Eyal Shekel delves into the fundamental principles of CBC and explores its versatile configurations, which encompass filled aperture and optical phased array techniques. He provides valuable insights into the latest developments in this field for laser technology enthusiasts or engineers seeking to harness the power of CBC. Presented by Civan Lasers.

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### Call for Articles

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, and *Vision Spectra*). Please submit an informal 100-word abstract to [editorial@Photonics.com](mailto:editorial@Photonics.com), or use our [online submission form](#).



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