

This Week in PHOTONICS



LightMachinery
Excellence in Lasers and Optics



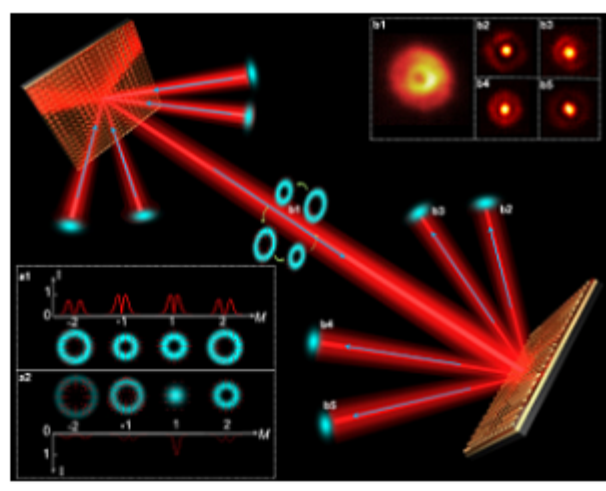
Hyperfine Spectrometer
A sub-picometer resolution spectrometer in a compact package.

Top Stories

Metasurface-Based Multiplexing Sharpens Vector Beam Communications

An approach to cylindrical vector beam (CVB) multiplexing that is based on off-axis polarization control, developed by a research team from Shenzhen University, could help realize the potential of CVB multiplexing as a pathway to high-capacity optical communications.

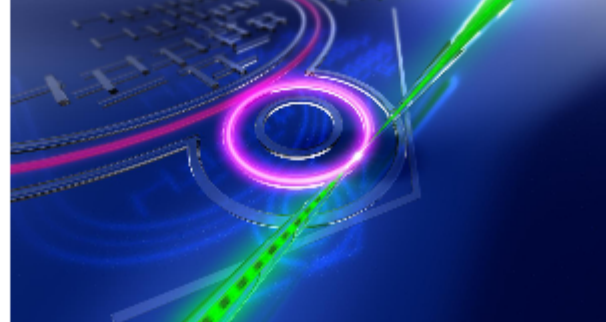
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Photonicly Controlled Electron Beams Push Boundaries of Quantum Metrology

The combination of integrated photonics and electron microscopy supports a method for highly efficient electron-beam modulation. The experimental work described by scientists at three universities is poised to spur development of advanced quantum metrology — particularly quantum measurement schemes — using electron microscopy.

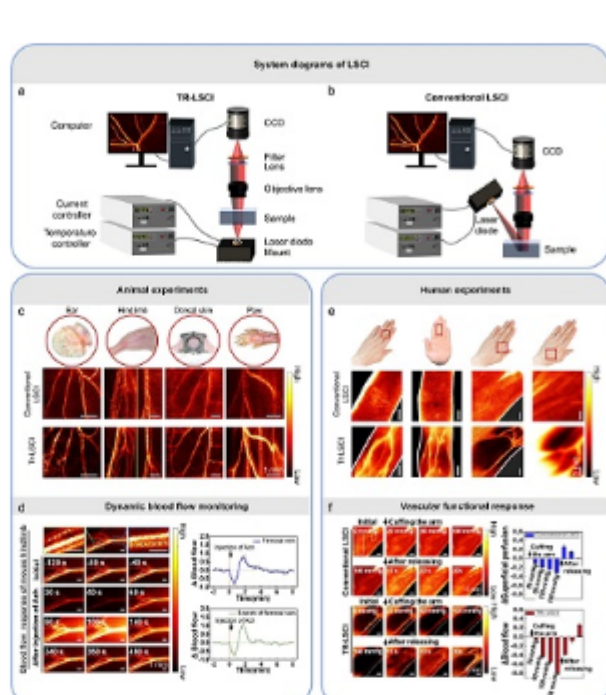
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Shift to Transmissive Mode Improves Thick Tissue Laser Speckle Contrast Imaging

A team from Huazhong University of Science and Technology has charted a course for transmissive-detected laser speckle contrast imaging to become a valuable tool for microcirculation research and clinical applications.

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Featured Products



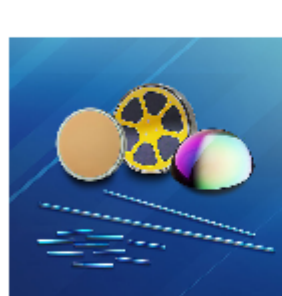
Excelitas PCO GmbH will be Exhibiting at the SPIE BIOS and Photonics West

PCO-TECH Inc.

Excelitas PCO GmbH will be exhibiting at the SPIE BIOS and Photonics West Conference from January 22-27, 2022 at the Moscone Center in San Francisco, CA, United States. At our booth we will highlight PCO's next level sCMOS cameras with unprecedented imaging performance.

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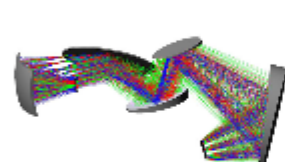
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Synopsys Inc., Optical Solutions Group

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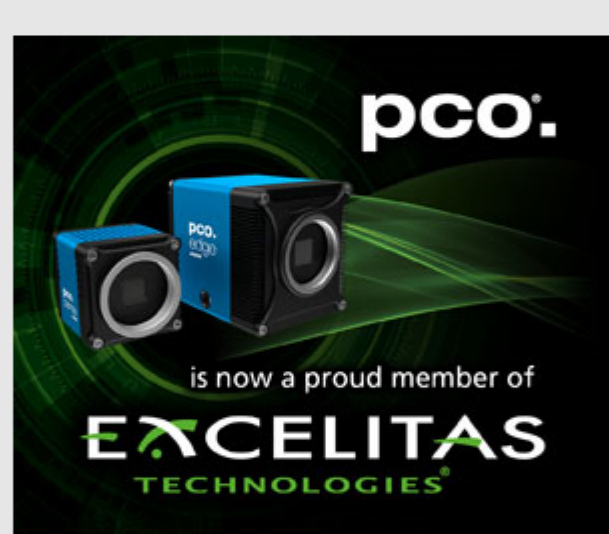
C-WAVE GTR: CW Tunability Meets Power

HÜBNER Photonics

C-WAVE GTR is HÜBNER Photonics' latest addition to the award-winning C-WAVE series of widely tunable continuous-wave lasers. With up to more than 1 W of output power it covers the wavelength range of 500 nm to 750 nm without any gaps – it's an unmatched source...

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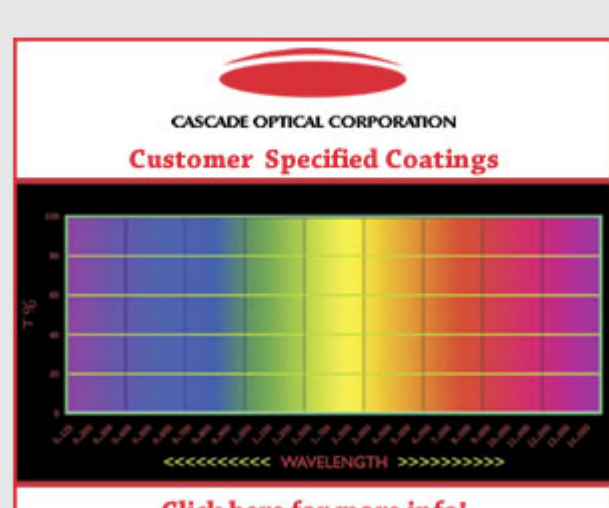
SPIE Honors 21 with Annual Society Awards [Read Article](#)

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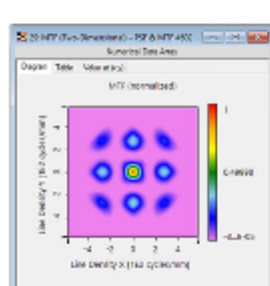
SPIE Names 58 Fellows for 2022 [Read Article](#)

Supercomputer Adds Efficiency to Light-Matter Simulations [Read Article](#)

Optogenetics Tool Brings Dynamics of Cellular and Tissue Mechanics to Light [Read Article](#)



Upcoming Webinars

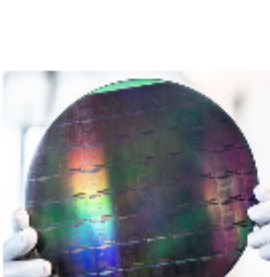


Next-Generation Optics Software: Trends in Technology

Tue, Jan 18, 2022 10:00 AM - 11:00 AM EST

Frank Wyrowski of LightTrans International introduces an alternative approach to optical systems modeling in this webinar: identifying and applying the generalization of ray optics inside the framework of physical optics software. He presents modeling software that results from answering this question, showcasing how physical optics modeling can be made more practical and useful for advancing technologies such as AR/MR devices. Sponsored by LightTrans International GmbH.

[Register Now](#)



Si/SiN-Integrated Photonics for Lidar, Quantum, and Sensing

Wed, Jan 19, 2022 10:00 AM - 11:00 AM EST

In this webinar, Amin Abbasi, business development manager at imec, presents imec's recent collaborative progress on using integrated photonics for emerging applications such as on-chip lidar, quantum computing, and sensing. The added value of using integrated photonics-based solutions is a higher level of integration capacity, compactness, and scalability. Presented by imec.

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