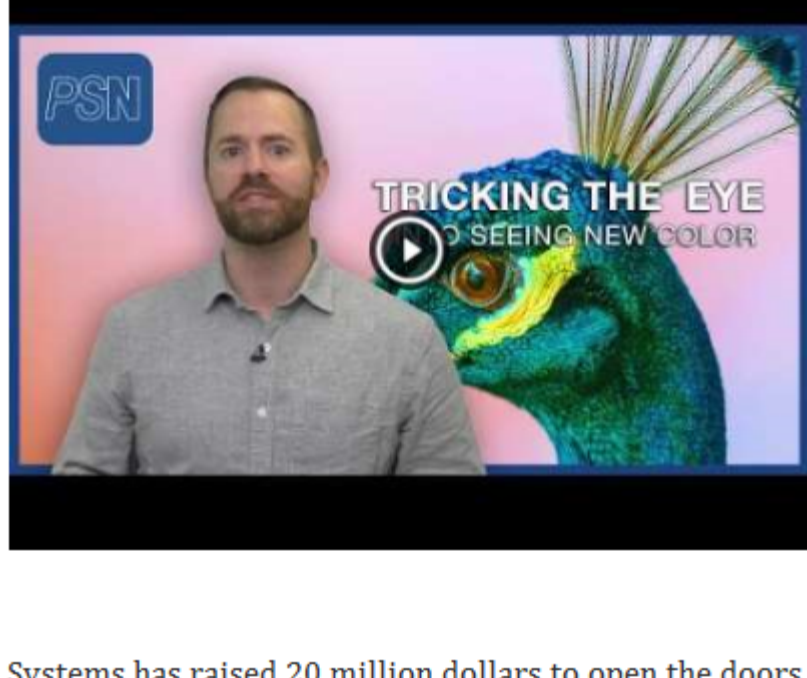




Weekly News



Systems has raised 20 million dollars to open the doors to a privately owned laser particle accelerator in Carlsbad, California. Scientists from the U-S Department of Energy have developed a novel, high-energy detection instrument leveraging the power of quantum sensors. And Purdue Engineering has found a way to detect anemia using only a selfie and machine learning. Sponsored by CeramOptec.

[Watch Now](#)



Legacy Optics Groups Team Up in Rochester, A New System Tricks The Eye into Seeing a New Color

Legacy optics companies are teaming up in Rochester. Advanced Glass Industries has acquired Glass Fab Inc. and will become EvolvOptic. French aerospace and defense group Safran has invested in mirSense, a French startup specializing in quantum cascade lasers. Researchers at Berkeley followed the yellow brick road for their latest breakthrough. Using a technique they called “Oz,” scientists have found a way to manipulate the human eye into seeing a new color. TAU

Researchers Trick the Eye into Seeing New Color

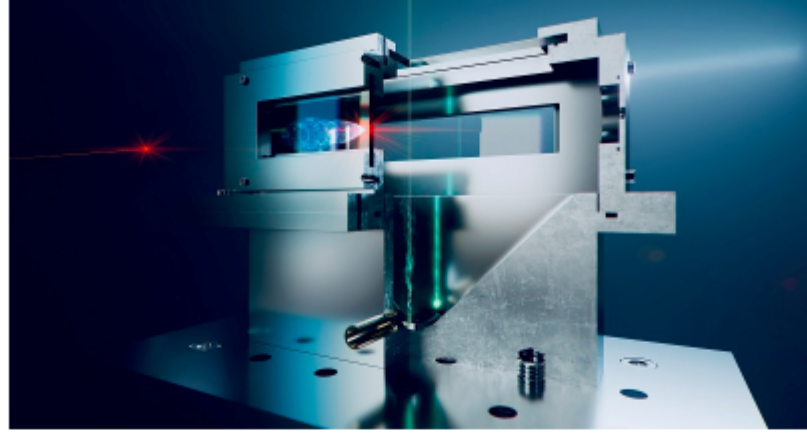
Using a technique called “Oz,” scientists at the University of California, Berkeley, have found a way to manipulate the human eye into seeing a new color — a saturated blue-green color the team has named “olo.” [Read Article](#)



IXI Raises \$36.5M Series A

IXI, a developer of autofocus eyewear technology, has raised \$36.5 million in series A funding. The company plans to use the financing to complete product development of its IXI Adaptive Eyewear and kick off commercial operations.

[Read Article](#)



TAU Systems Secures \$20M

TAU Systems, a developer of ultra-fast compact laser-plasma accelerators, has raised \$20 million in seed funding, bringing its total raised to \$35 million. The funding round enables TAU Systems to open its privately owned and operated laser-particle accelerator, in Carlsbad, Calif., and to begin work with its first customer — a major satellite manufacturing company, TAU said. [Read Article](#)



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CASTECH INC.

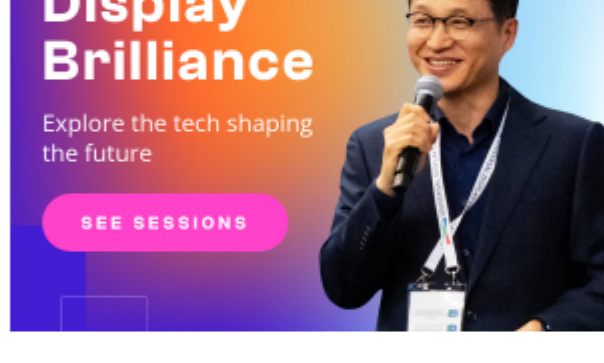
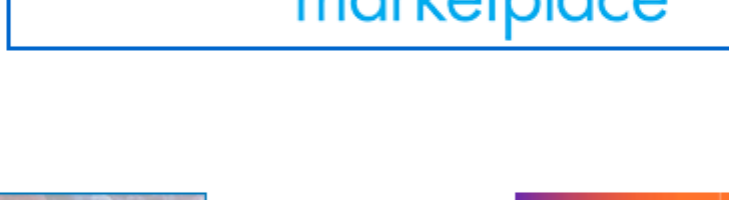
CASTECH's high DE reflection grating is ideal for

WSS and other applications in the optical communication industry. The high-precision design of the grating provides outstanding diffraction efficiency and perfect uniformity.

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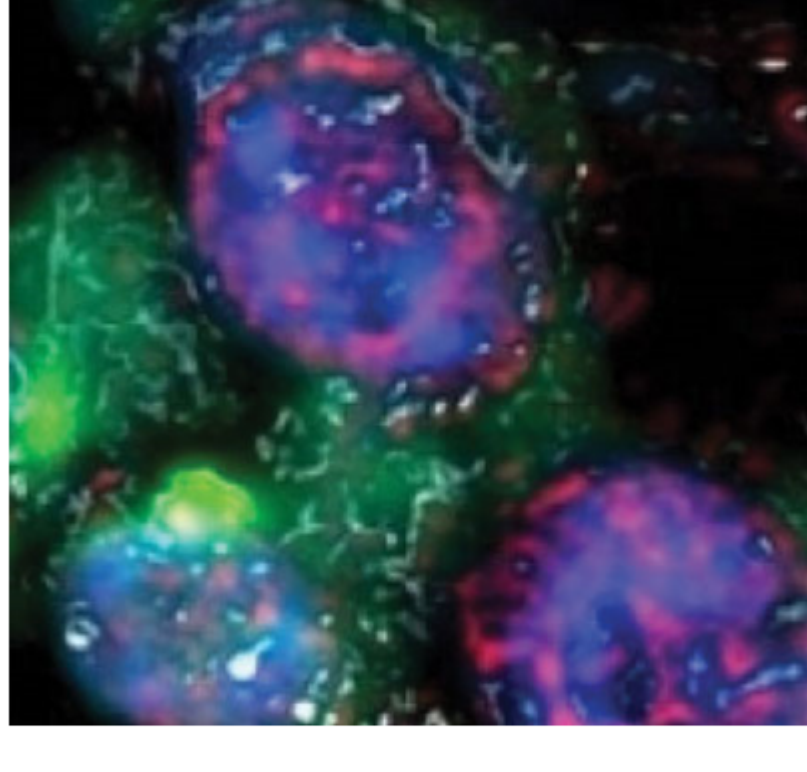
Quantum Sensors Offer Path to Next-Gen Particle Physics Experiments

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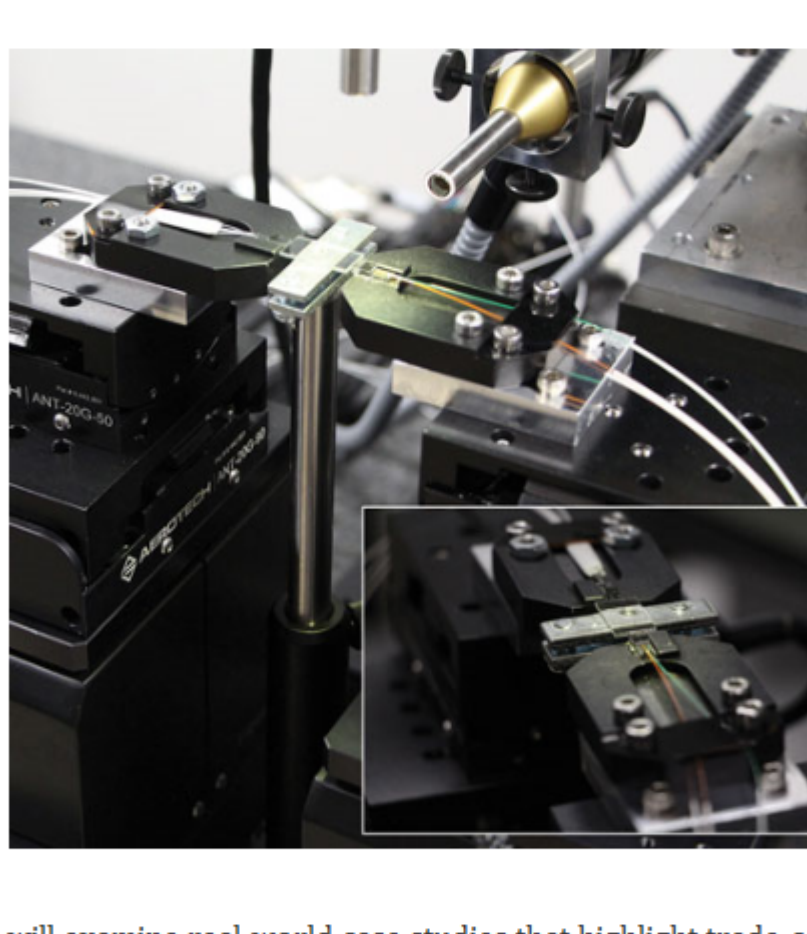
Advancing Raman Spectroscopy by Using Bioresponsive Optical Nanomaterials

Wed, May 7, 2025 1:00 PM - 2:00 PM EDT

Raman spectroscopy provides label-free molecular characterization by detecting chemical bond vibrations, enabling direct visualization of molecular responses in living cells and tissues. Despite significant advancements, the clinical translation of Raman spectroscopy has been hindered by two key challenges: limited detection sensitivity and insufficient specificity. For instance, it has not found use in imaging enzyme activity, a significant aspect of biomedical research. Leveraging nature-inspired self-assembly strategies, intracellular bioorthogonal enzyme-responsive nanoprobes (nanoSABER) have been developed. Engineered from enzyme-responsive peptides, these nanoprobes assemble into supramolecular

structures with distinct Raman-active vibrational signatures upon interaction with targeted enzymes. Incorporating vibrational tags such as alkyne (C≡C) and nitrile (C≡N) groups within the cell-silent Raman window (1800 to 2600 cm⁻¹), nanoSABER specifically images enzyme activity with minimal interference from endogenous cellular signals.

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How to Select a Precision Automation System for High-Volume Optical Alignment

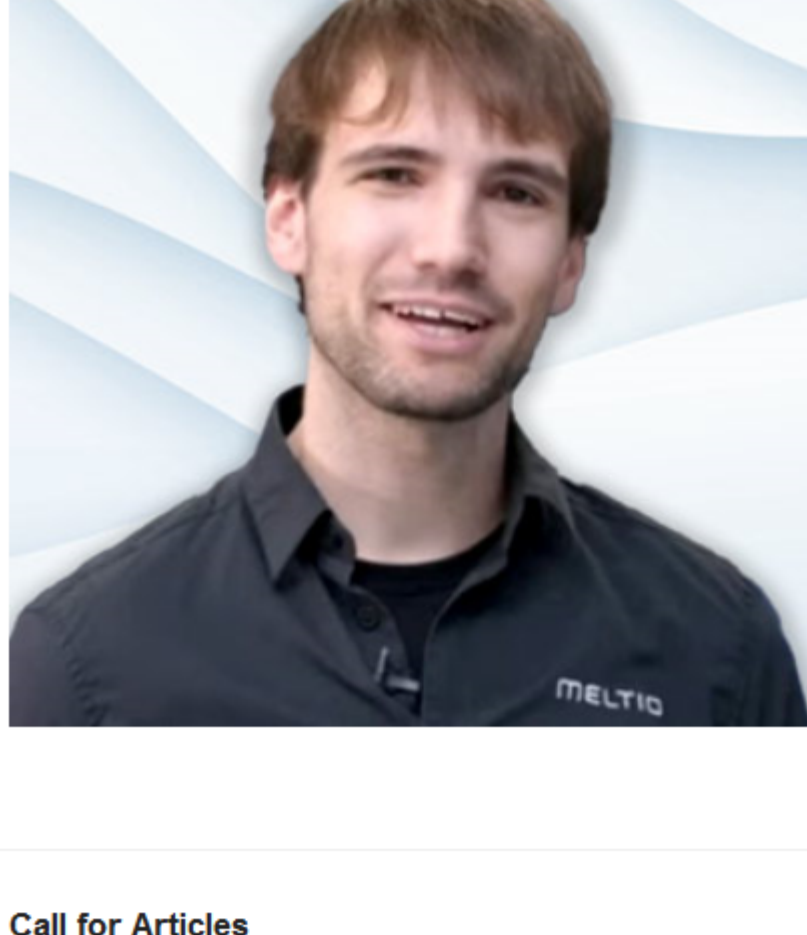
Thu, May 8, 2025 1:00 PM - 2:00 PM EDT

Achieving submicron positioning in optical alignment applications is critical in the production of optical components and systems used in the consumer electronics, automotive, and defense industries. Precision motion control solutions, including direct-drive stages and hexapods, play a key role in optimizing active alignment processes and ensuring quality through repeatable results. However, selecting the right positioning system is not always easy. This webinar will provide a technical overview of six-degrees-of-freedom (6-DOF) positioning architectures and their effect on alignment quality. It will examine the role of active alignment algorithms and control systems on alignment quality and repeatability. Additionally, it

will examine real-world case studies that highlight trade-offs between different motion control technologies and demonstrate strategies for maximizing throughput while maintaining alignment integrity. Designed for optical engineers, automation engineers, and manufacturing engineers, this webinar will equip attendees with the knowledge required to make informed decisions when specifying motion control solutions for optical alignment applications. Presented by Aerotech Inc.

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All Things Photonics



Laser-Based Additive Manufacturing Steps into the Blue — With Lukas Hoppe

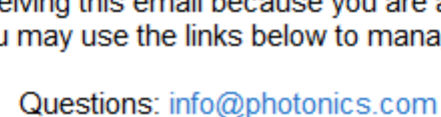
Additive manufacturing garners considerable attention — but the methods and underlying technology often take a back seat to the remarkable designs and properties of finished works.

Lukas Hoppe, R&D director at Meltio, offers insights into the current laser-based additive manufacturing ecosystem. Hoppe discusses Meltio's blue laser innovations as well as wire-laser metal 3D printing methodology.

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