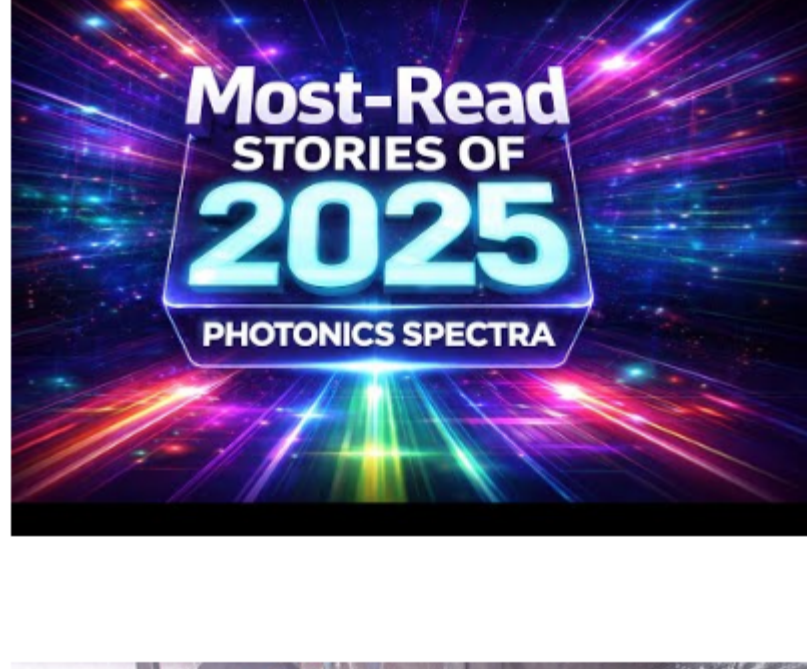




Weekly News

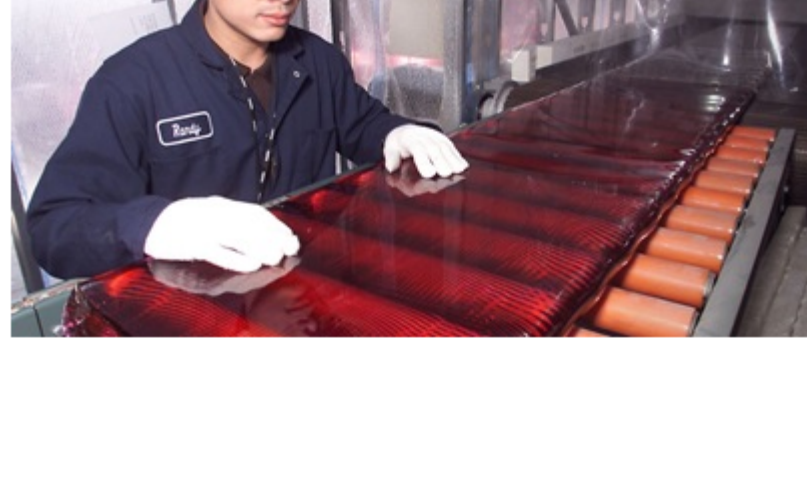
OHARA



Recapping the Most-Read Stories of 2025 from Photonics Spectra

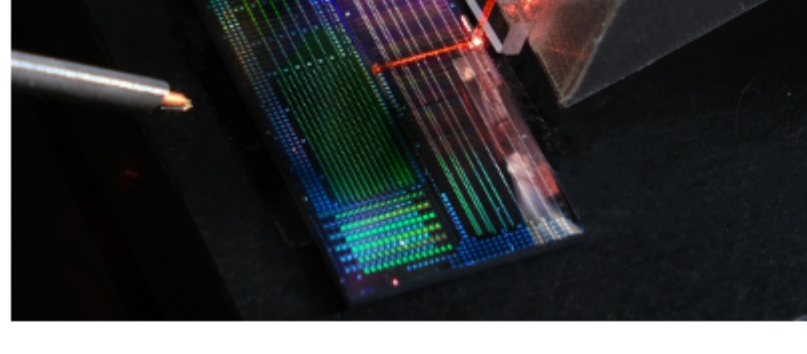
There was no shortage of research breakthroughs and big business dealings for 2025. Here are some of the stories that really caught our readers' attention, topping the list of the most-read stories of the year.

[Watch Now](#)



Fraunhofer ILT and LLNL Joint-Effort Unites Fusion Tech Leaders

The International Cooperation on Next-gen Inertial Confinement Fusion Lasers project will combine the expertise of scientists at the Fraunhofer Institute for Laser Technology ILT (Fraunhofer ILT) and Lawrence Livermore National Laboratory (LLNL) to transition laser-ignited inertial fusion from the experimental stage to application. [Read Article](#)



On-Chip Optical Phase Modulator Scales to Large Quantum Computers

Optical phase modulators with scalable platforms are essential for large-scale quantum computing. Quantum computers will require thousands, even millions, of channels to independently control each qubit, and, to support this requirement, optical phase modulators will need to be mass-producible and powerful. [Read Article](#)

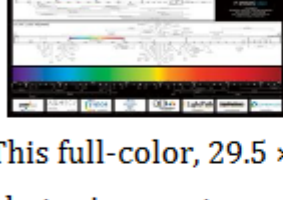


Switzerland's HOERBIGER Group to Acquire Physik Instrumente

Physik Instrumente (PI), a provider of precision motion and positioning technologies, signed an agreement to be acquired by HOERBIGER, a diversified technology group with global operations. For PI, the move provides greater resources to facilitate sustainable growth, while HOERBIGER gains the opportunity to expand into new markets. [Read Article](#)



Featured Products & Services



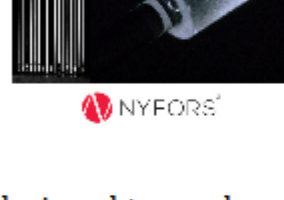
Photonics Spectra Reference Chart

Photonics Media

This full-color, 29.5 × 20.5-inch poster of the photonics spectrum displays the major commercial laser lines, detectors, and optical materials in the ultraviolet to the far-infrared and beyond. The convenient format makes it easy to quickly find the information you need.

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CO₂ Laser Glass-Processing

NYFORS Teknologi AB

CO₂ 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. NYFORS also manufactures automated high-precision solutions for fiber preparation, such as stripping, cleaving, recoating, and end-face inspection. NYFORS offers custom workcell automation solutions.

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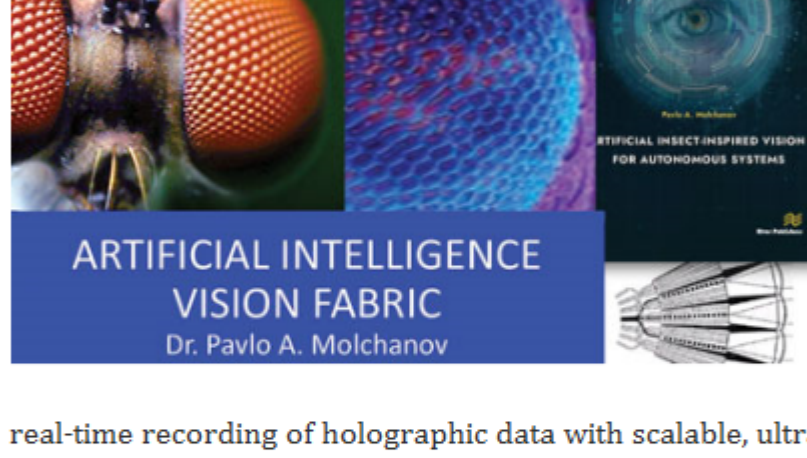
[Transparent Ceramic Could Boost Internet Speeds, Cut Energy Use](#)

[Finchetto Secures Grant to Fuel Optical Switch R&D](#)

[Octopus-Inspired Micro-LEDs Designed for Cancer Therapy](#)

[Camera Module Market Poised for Growth](#)

Latest Webinars



Artificial Intelligence Vision Fabric

Tue, Jan 6, 2026 11:00 AM - 12:00 PM EST

AI Vision Fabric is a breakthrough platform that fuses advanced digital holography with Fresnel coherent diffraction imaging (FCDI), transforming how artificial systems capture and interpret visual information. Inspired by nature's most efficient vision systems, this technology unlocks performance far beyond the limits of traditional optics. At its core is a quantum-ready multichannel electro-optic synchronization interface, enabling

real-time recording of holographic data with scalable, ultrahigh processors, it opens the door to unprecedented speed, parallelism, and intelligence. This powerful fusion of AI, holography, and biological inspiration creates a new generation of vision technology - one that achieves human-like flexibility and scalability without precision lenses, moving parts, or heavy computational loads.

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Meeting Next-Generation Optical Component and System Metrology Needs

Tue, Jan 13, 2026 11:00 AM - 12:00 PM EST

As optical systems evolve toward greater design complexity, the demand for precise, reliable metrology continues to grow. Vibration-insensitive interferometry is emerging as a critical enabler for advancing the fabrication and integration of next-generation components. This technique supports high-precision

measurement of aspheres, freeform optics, and infrared (IR) components, extending capability into new wavelength regions while accommodating the industry's shift toward smaller, more integrated optical elements. Attendees will discover how this approach is transforming optical metrology, bringing precision and flexibility to the production line and helping manufacturers keep pace with the innovation driving modern optical design.

[Register Now](#)



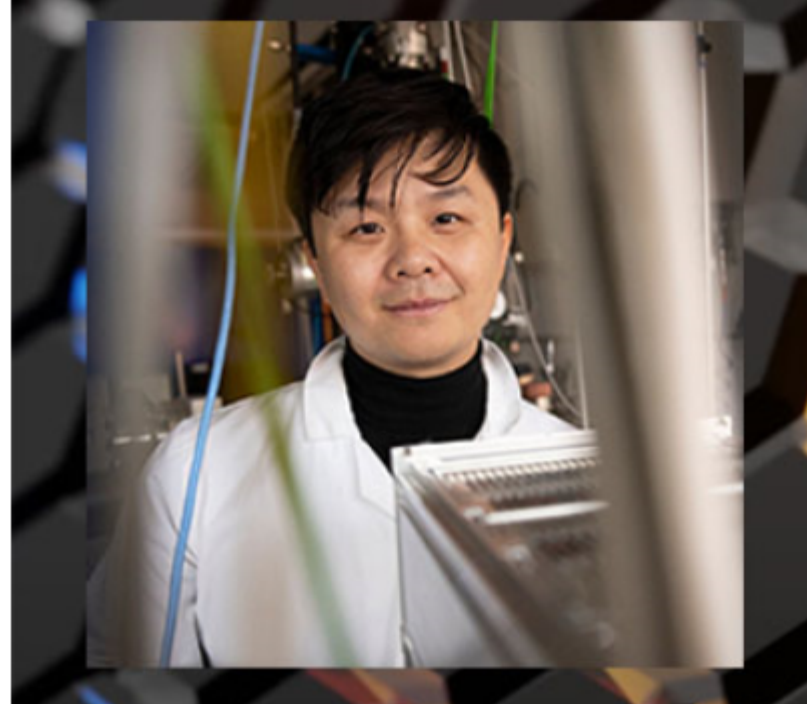
Exploring the Benefits of Borosilicate Glass in Automotive Lighting

Wed, Jan 14, 2026 11:00 AM - 12:00 PM EST

Automotive lighting is advancing at a rapid pace, driven by technologies such as high-power LEDs, adaptive driving beams, and integrated sensor systems. These innovations introduce new challenges in thermal management, durability, and optical precision - areas in which traditional glass materials often reach their limits. This webinar focuses on the role of BOROFLOAT® 33 borosilicate glass in addressing these challenges. With its distinctive combination of thermal stability, optical clarity, and mechanical strength, BOROFLOAT® 33 has emerged as a key material for next-generation lighting and sensing applications. Presented by SCHOTT.

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All Things Photonics



Reaching the Limit of Human Perception — With Kunli Xiong

From TVs to AR/VR headsets, tech giants have always pushed for the highest picture resolution. That push may soon come to an end after researchers demonstrate the smallest pixels to date, reaching the very limits of the human eye. Using nanoparticles, those pixels reproduce colors whose dimensions and arrangement control how light is scattered, and its optical properties can be electrically tuned. A new retina e-paper has allowed researchers to create pixels so small that they can correspond to a single photon receptor in the eye. In this episode, **Kunli Xiong**, an assistant professor in the Department of Materials Science and Engineering at Uppsala University, explains how this technology could go

beyond AR/VR systems and improve remote collaboration and even accelerate scientific research.

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