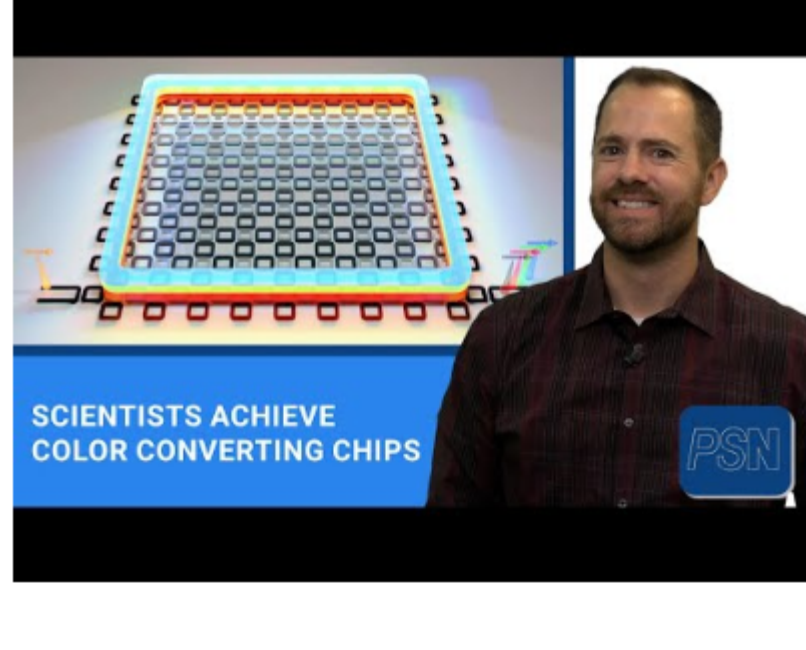




Weekly News

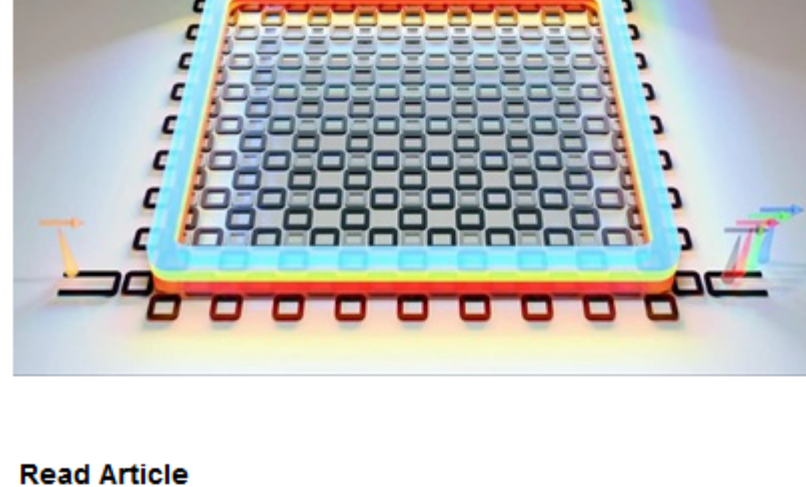
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Color Converting Chips Could Solve a Long-Standing Problem, SPIE adds the AR Alliance

GlobalFoundries continues its streak of adding new acquisitions and collaborations to enhance work done on silicon photonics. A milestone for the AR industry as SPIE adds the AR Alliance as its newest division. And researchers from the Joint Quantum Institute solve a long-standing problem with a new photonic chip that can turn one wavelength into a rainbow of different colors.

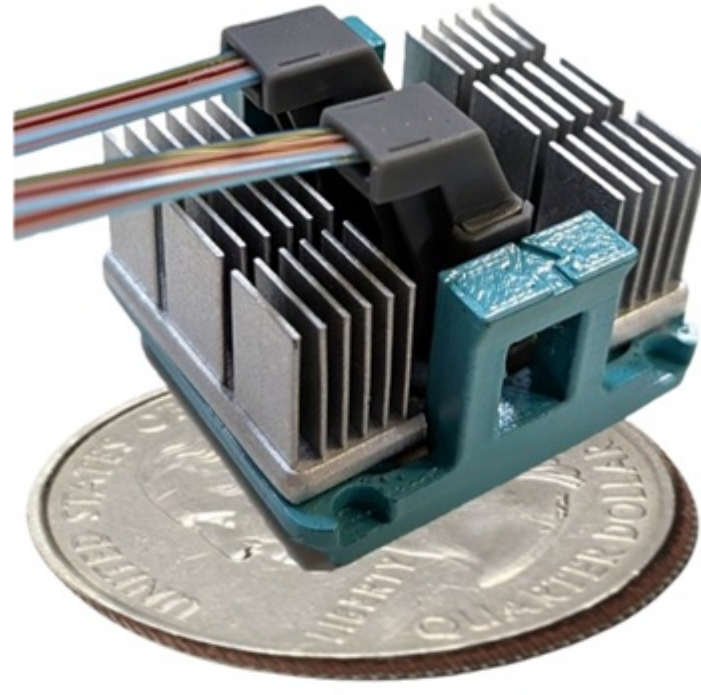
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Using Passive Approach, Scientists Achieve Color Converting Chips

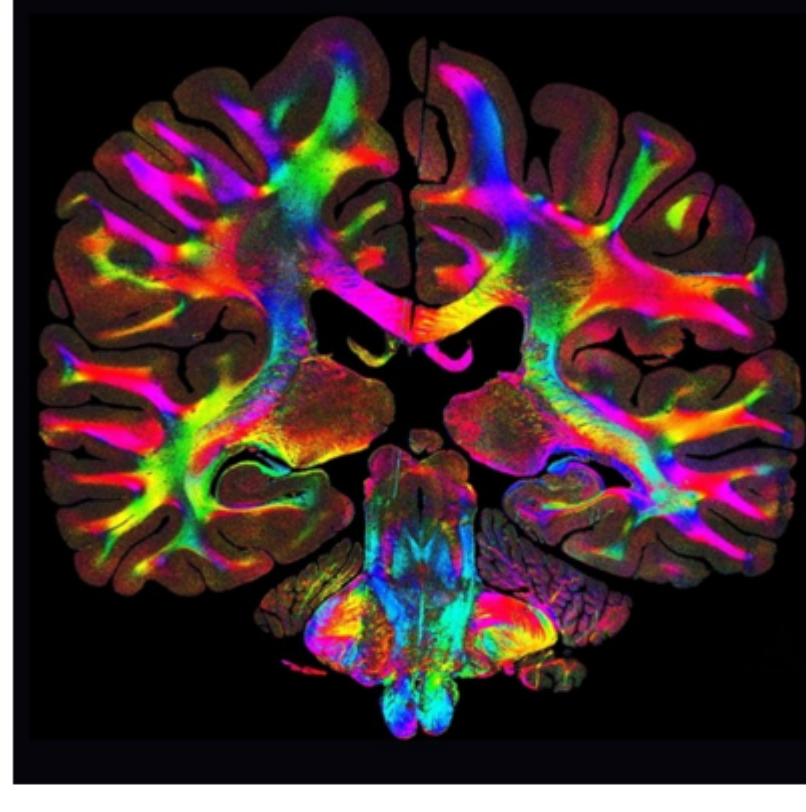
Researchers at the Joint Quantum Institute designed and tested chips that convert one color of light into a rainbow of additional colors, which is useful for building quantum computers and precision measurements of frequency or time. Generating the frequency of light on a chip saves the space and energy that would normally be taken up by additional lasers.



Integrated Laser Developer PicoJool Emerges from Stealth with \$12M

PicoJool, an optical connectivity company, emerged from stealth with \$12 million in funding led by Playground Global. The company said it has developed a new class of pixel-level photonics to make optical links as inexpensive, compact, and manufacturable as traditional copper connections.

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Scattered Light Imaging Can Map Tissue Fibers at Micron Resolution

The billions of nerve fibers in the brain form a dense network that controls neuronal function and connectivity. The degeneration of these fiber networks causes disruptions in neural connectivity, leading to neurological disorders.

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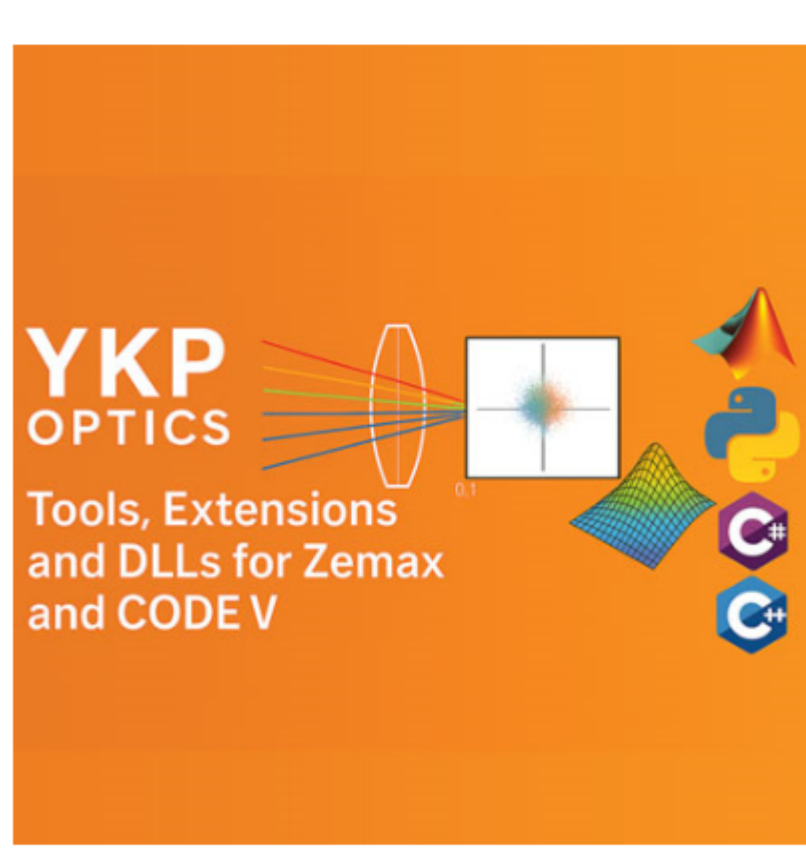
Solving Processing Demands for High-Bandwidth Imaging

Thu, Dec 4, 2025 11:00 AM - 12:00 PM EST

Explore how emerging technologies are transforming high-bandwidth imaging. This session highlights GigE Vision-to-Thunderbolt™ solutions that reduce CPU load and enable compact platforms for demanding imaging tasks. Learn how RoCEv2 allows direct data transfer from camera to memory-bypassing the CPU and OS-to support bandwidths up to 400 Gbps with minimal latency. Real-world examples will showcase how these innovations are reshaping system design for industrial, medical, and scientific imaging applications.

Sponsored by [Pleora Technologies](#).

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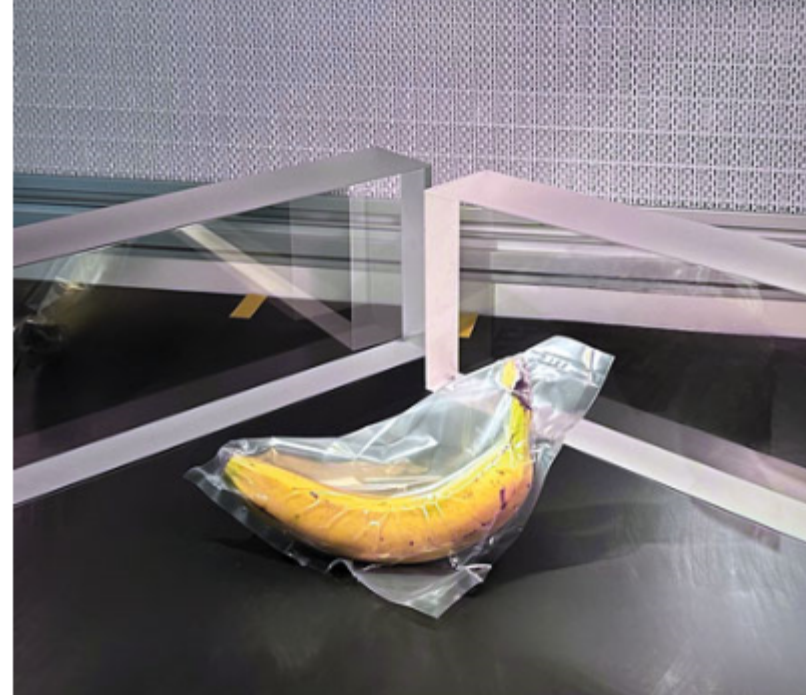


Extending Zemax & CODE V: Custom Extensions and DLLs for Optical Design

Tue, Dec 9, 2025 1:00 PM - 2:00 PM EST

Join this webinar for an in-depth look at how custom extensions and DLLs can transform your optical design workflows in Zemax OpticStudio and CODE V. This talk will demonstrate practical tools for multi-file analysis, advanced aberration evaluation, and straylight minimization, while also introducing AI-BOLD, a next-generation optimization engine. Learn how to boost efficiency, reduce errors, and unlock new design possibilities beyond the limits of standard software.

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Engineering the Next Generation of Large-Format High-Power Optics

Wed, Dec 10, 2025 10:00 AM - 11:00 AM EST

Large-format optics are the backbone of next-generation laser systems-from fusion facilities to high-energy research. Join OPTOMAN experts to learn how Ion Beam Sputtering (IBS) enables 500 mm size dielectric optics with exceptional laser-damage thresholds and uniformity. This webinar reveals the key technological challenges, solutions, and real-world applications shaping the future of large-aperture photonics. Discover how IBS optics are redefining what's possible in high-power laser performance.

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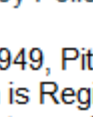


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