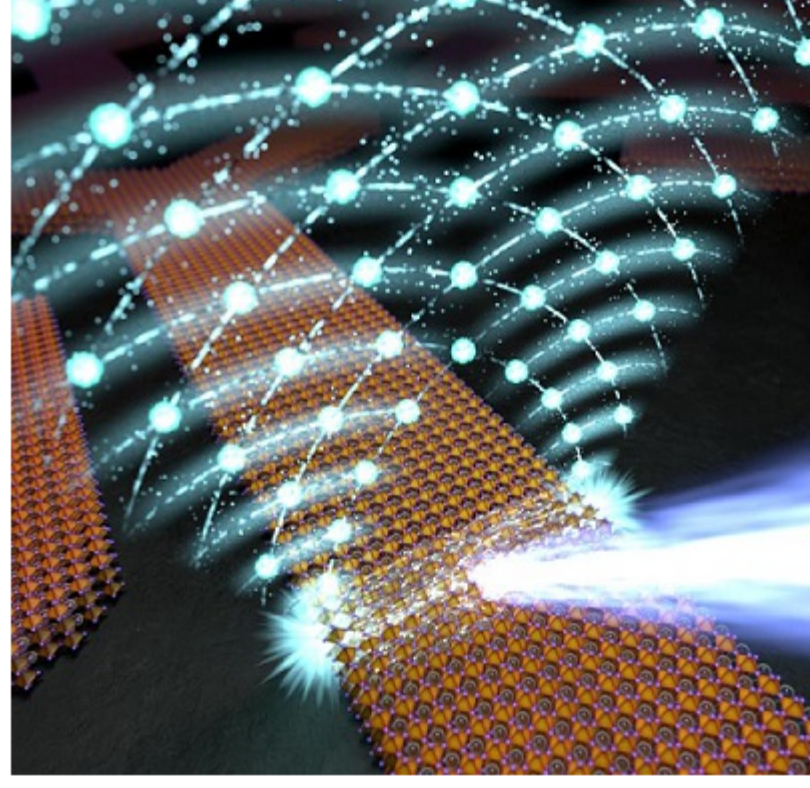


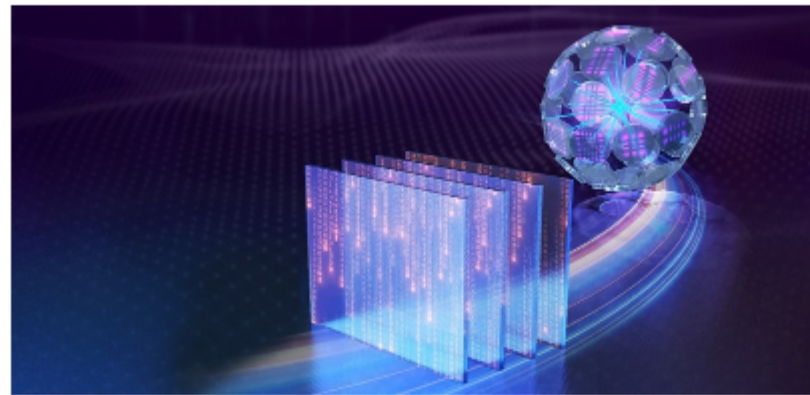


Weekly News



Predesigned Perovskites with Edge Lasing Allow Nonlinear Optical Effects

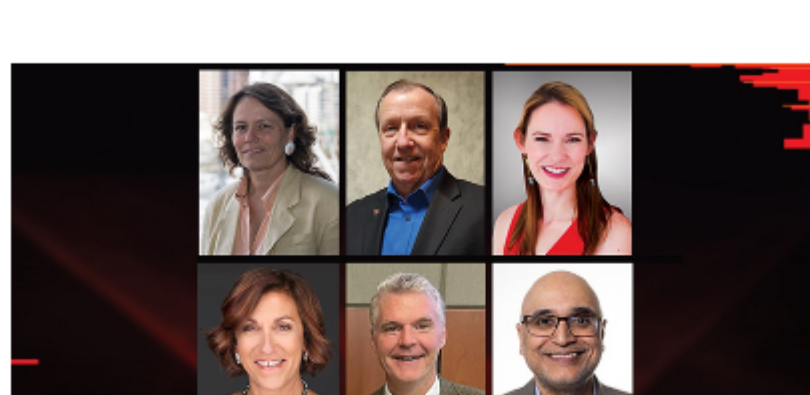
A research team from the University of Warsaw, in collaboration with institutions in Europe and Australia, developed a way to efficiently fabricate large-scale waveguiding perovskite crystals in predefined shapes such as couplers, splitters, or microwires. The optical, lasing, and waveguiding capabilities of perovskite make the material a promising platform for integrated photonic circuits for classical and quantum signal processing. [Read Article](#)



Coherence Entropy Unlocks Insights into Light-Field Behavior

Environments like turbulent atmospheres or deformed optical systems can distort and disrupt the light field, making it difficult to achieve clear and reliable results. Researchers at Soochow University have uncovered details on how light behaves as it travels through complex and fluctuating media.

The work could provide opportunities to advance various applications ranging from optical communications to advanced imaging techniques. [Read Article](#)

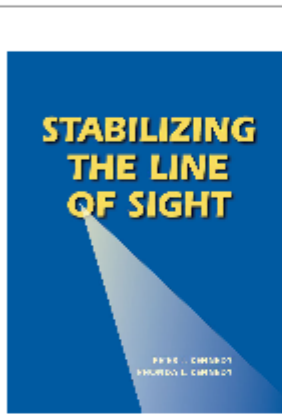


SPIE Elects Cather Simpson into Presidential Chain

Cather Simpson, of the University of Auckland and Orbis Diagnostics, has been elected to serve as the 2025 vice president of SPIE. With her election, Simpson joins the SPIE presidential chain and will serve as president-elect in 2026 and as the society's president in 2027. [Read Article](#)



Featured Products & Services

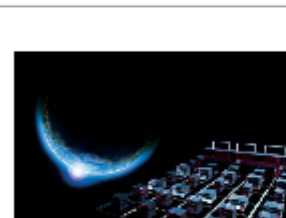


Stabilizing the Line of Sight

Photonics Media
In *Stabilizing the Line of Sight*, authors Peter J. and Rhonda L. Kennedy provide a methodology and an example for executing a successful end-to-end line-of-sight (LOS) design. Comprehensive in scope, this book will give readers a better understanding of the relationships between the various engineering disciplines that are required for successful LOS control.

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More News

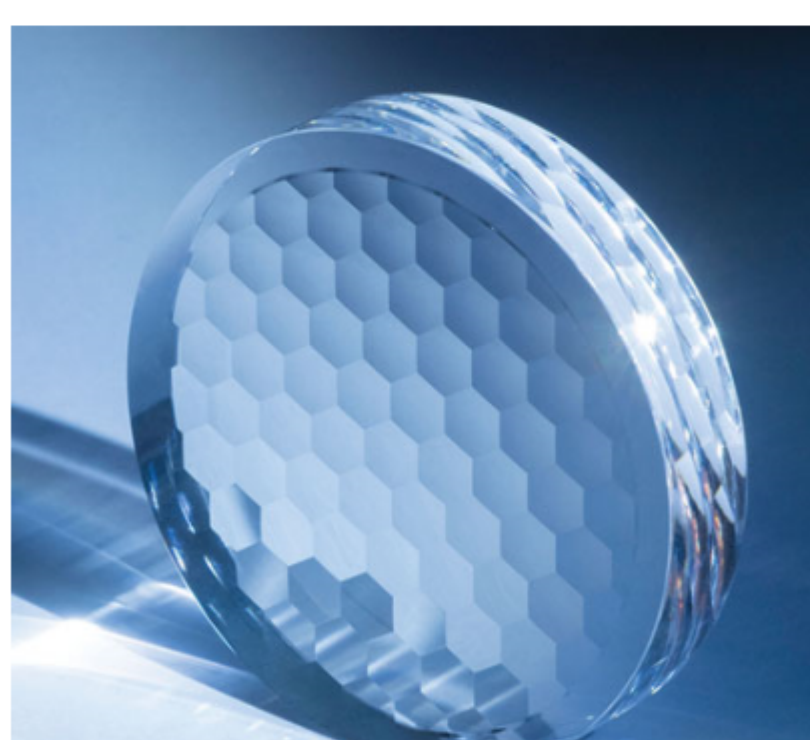
[Computational Temporal Ghost Imaging Extends to Mid-Infrared](#)

[LIS Technologies Closes \\$12M Seed Round](#)

[ESMC Breaks Ground on Dresden Fab](#)

[Lens-Free Fluorometer Can Monitor Water Quality in Low-Resource Settings](#)

Latest Webinars



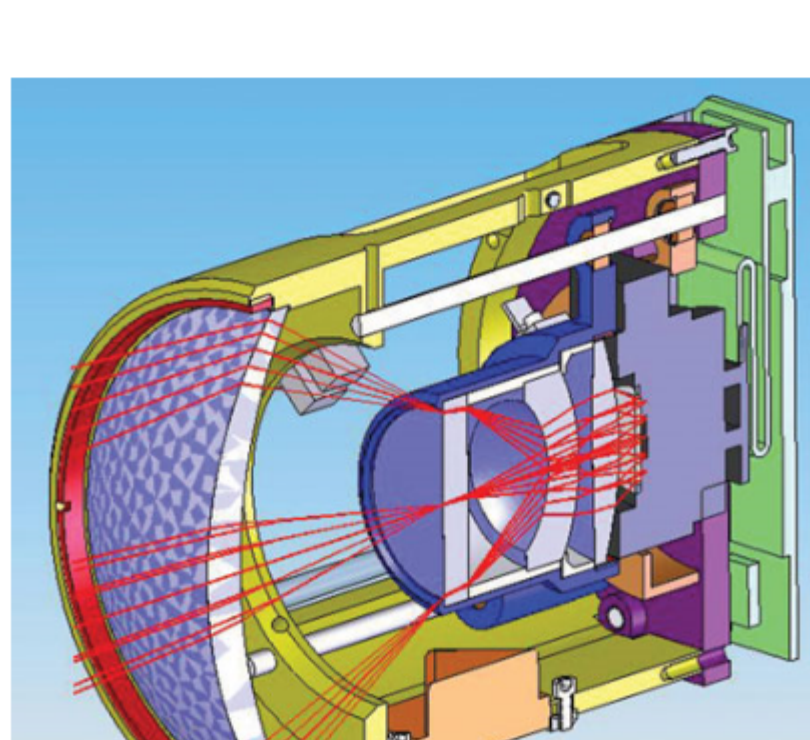
How to Improve Laser Applications Using Freeform Optics

Wed, Sep 4, 2024 10:00 AM - 11:00 AM EDT

This presentation provides a landscape of the freeform concept, design, product, and module solutions that are available for managers and designers of laser systems and applications that must deliver a performance enhancement that is difficult to obtain with conventional optics. Freeform optics are an elegant solution for beam shaping and aberration correction and allow optimization of laser applications. However, freeform optics are often regarded as difficult to design, difficult to incorporate into optical systems, expensive to make, and limited in optical performance. As a result, they occupy a small niche in the photonics industry. This webinar shows that there are easy, cost-effective ways to design, manufacture, and integrate solutions for high-grade, high-performance, fused silica freeform optics to

enhance laser systems and applications. Kidd shares examples of some of the most prevalent and important laser applications to show the technical and financial impact of using freeform optics solutions. These include coherent beam shaping for laser-induced fusion and other directed energy applications as well as blue laser beam shaping for the welding of lithium-ion batteries and other electric vehicle components. Presented by PowerPhotonic.

[Register Now](#)



Lights! Camera! Optics! Tricks of the Trade for Developing Front Ends for Machine Vision Systems

Tue, Sep 10, 2024 1:00 PM - 2:00 PM EDT

In this webinar, Andrew Bodkin shares insights into developing imaging systems that both experienced engineers and novice developers will find valuable. Over his lifelong career working with cameras, Bodkin has developed an intuitive understanding of how the elements of imaging systems interact. He shares techniques and physical interpretations to clarify the understanding of how these system elements function. This framework is invaluable in simplifying the design and build process of the optical front end of machine vision.

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