

Weekly News



Featured Video

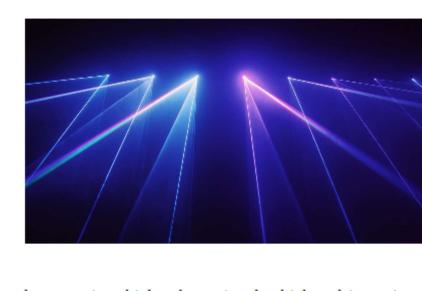


New Players in Photonic Chips, Laser World of Photonics Prepares for Record Attendance

TNO announces plans to develop a manufacturing line for

photonic chips with help from the PIXEurope initiative. Chinese media reports the nation's first production line for thin-film, niobate photonic chips. MIT researchers develop a novel AI hardware accelerator for wireless signal processing. Coherent Aerospace & Defense is awarded nearly \$30 million from the U.S. Navy to advance its high powered laser weapons system. Vodafone targets quantum capabilities with a new partnership with ORCA Computing. Lawrence Livermore National Laboratory and Amazon Web Services leverage the

power of AI to enhance operations at the National Ignition Facility. And Laser World of Photonics 2025 is expecting to welcome a record number of exhibitors to Munich! Watch Now

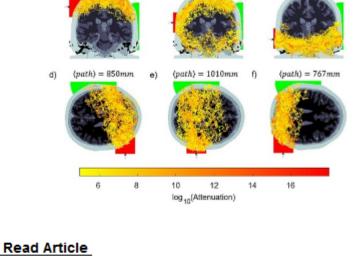


Temperature Ceramics Without a Furnace Ultrahigh-temperature ceramics (UHTCs) are designed to

Laser Technique Sinters Ultrahigh

withstand extreme environments, making them indispensable in aerospace, defense, and energy applications. Hafnium carbide (HfC) in particular is well-suited for thermal protection coating systems in spacecraft, engines, and hypersonic vehicles, due to its ultrahigh melting point, exceptional hardness, high elastic modulus, and high thermal conductivity. A technique for synthesizing HfC, developed by a team at North Carolina State University, integrates

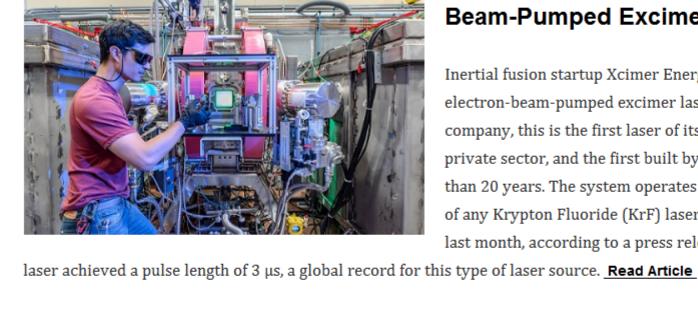
crosslinking and pyrolysis into a single step, reducing processing time and energy consumption. Read Article Photon Transport Through Entire Head (path) = 573mm $\langle path \rangle = 1010mm$ $\langle path \rangle = 1047mm$



Imaging With the appropriate optical setup, it is possible to measure photons as they travel diametrically across the inside of the

Shows Promise for Noninvasive

adult human head. This discovery, made by scientists at the University of Glasgow, could contribute to the development of noninvasive optical techniques for deep brain imaging. Xcimer Energy Completes Electron-

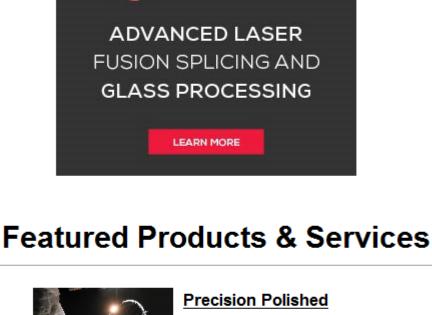


Inertial fusion startup Xcimer Energy has completed an electron-beam-pumped excimer laser. According to the company, this is the first laser of its kind funded by the

Beam-Pumped Excimer Laser

private sector, and the first built by any organization in more than 20 years. The system operates at the longest pulse length of any Krypton Fluoride (KrF) laser, the company added. And last month, according to a press release from the company, the

SYNOPSYS. NYFORS*



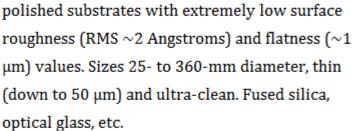


Wide mode-hop-free tuning between 750 nm and

790 nm is now available. Ideal for (micro) cavities

Ohara Corporation Ohara is a leading manufacturer of double-side

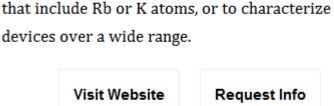
Substrates



Transparent Film, Using Graphene, Boosts Photonics Applications

Light-Based Control of Bacteria Aims to Quell Antibiotic Resistance

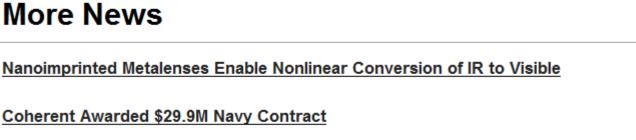
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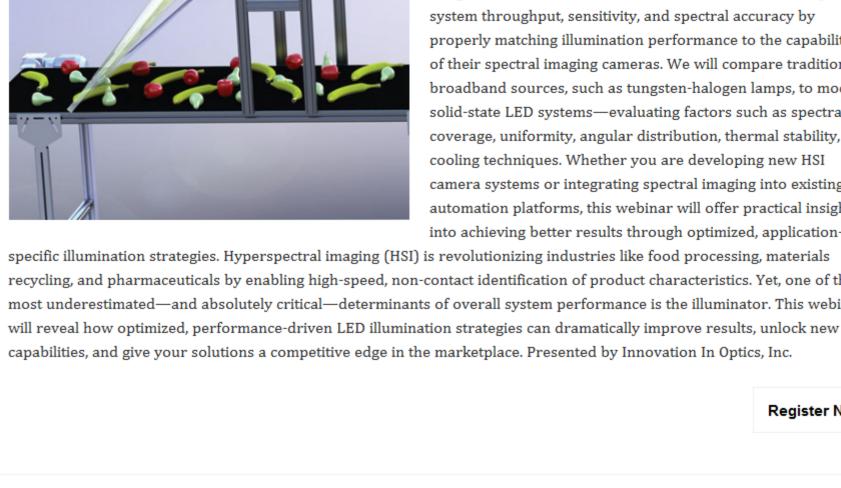
Toptica Photonics AG

PHOTONICS marketplace⁶



Latest Webinars

More News



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integration of illumination. Attendees will learn how to optimize system throughput, sensitivity, and spectral accuracy by properly matching illumination performance to the capabilities of their spectral imaging cameras. We will compare traditional

imaging and focuses on the often-overlooked design and

Optimization of LED Illumination for

Hyperspectral Imaging Applications

This webinar introduces key principles of inline hyperspectral

broadband sources, such as tungsten-halogen lamps, to modern

coverage, uniformity, angular distribution, thermal stability, and

solid-state LED systems—evaluating factors such as spectral

Wed, Jul 9, 2025 11:00 AM - 12:00 PM EDT

cooling techniques. Whether you are developing new HSI camera systems or integrating spectral imaging into existing automation platforms, this webinar will offer practical insight into achieving better results through optimized, applicationrecycling, and pharmaceuticals by enabling high-speed, non-contact identification of product characteristics. Yet, one of the most underestimated—and absolutely critical—determinants of overall system performance is the illuminator. This webinar Register Now

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