

Weekly News





EUV Lithography Resolution Boosted to 5 nm

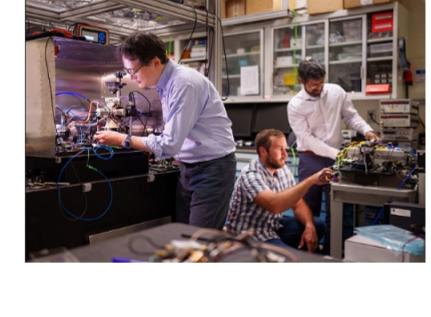
Researchers at the Paul Scherrer Institute have developed a photolithography technique to create denser circuit patterns. The current state-of-the-art microchips have conductive tracks separated by 12 nm. The current work enables tracks with a separation of just 5 nm. Read Article



Photon Source The construction of the High Energy Photon Source (HEPS) at

China Marks Progress on High Energy

the Chinese Academy of Sciences has marked a milestone as electron beams with currents exceeding 10 milliamperes were successfully stored in the HEPS storage ring. The achievement signifies the completion of the accelerator complex and the beginning of beam commissioning. Read Article



GPS-Free Navigation Tech Researchers from Sandia National Laboratories have used

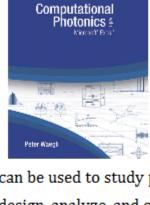
Integrated Photonics Shrinks Down

silicon photonic microchip components to perform a quantum sensing technique called atom interferometry, an ultra-precise way of measuring acceleration. It's the latest milestone toward developing a kind of quantum compass for navigation when GPS signals are unavailable. Read Article





Computational Photonics with Microsoft® Excel®

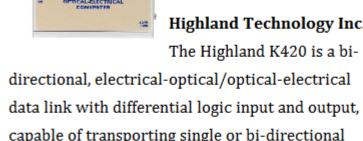


This book shows how Excel readily available on

Photonics Media

almost every computer can be used to study photonics problems and to design, analyze, and optimize photonics

applications. Visit Website Request Info



The Highland K420 is a bi-

Highland Technology Inc.

Duplex Logic To Fiber

Optic Converter

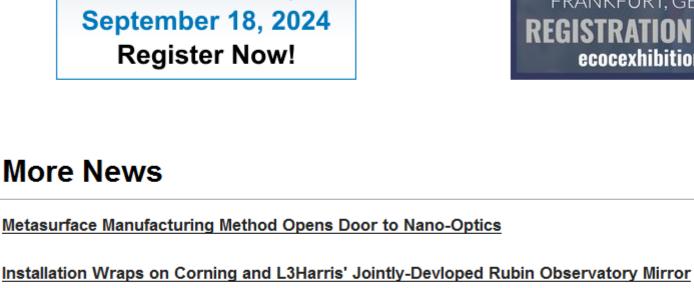
capable of transporting single or bi-directional

digital data at speeds up to 2 GHz. The included Cisco SFP-10G-SR plugin module can operate at distances up to 400 meters with 50-micron OM4 or better fiber. Visit Website Request Info Looking for something else? Check the Photonics

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Gamma Frequency Light and Sound Could Lessen Neurodegenerative Effects

Latest Webinars

Imaging System Mimics Compound Eye for Greater Sensitivity in Robotic Vision

MKS Ophir IR Optics.

wavelengths to improve target identification and combine data from various bands to offer a comprehensive environmental view, enhancing situational awareness. They excel in adverse conditions by penetrating haze, smoke, and challenging weather

surveillance, and aerospace. These systems capture multiple

Large reflective optics are essential for high-performance multispectral electro-optics imaging systems in defense,

Reflective Optics for Multispectral EO

Wed, Aug 28, 2024 9:00 AM - 10:00 AM EDT

better than visible light, and they provide high-resolution imaging for detailed analysis and accurate decision-making. Utilizing advanced data fusion, these systems enhance target recognition and tracking, adapt to various mission requirements from surveillance to disaster response, and reduce operational costs by minimizing the number of necessary maneuvers. Join MKS Ophir for an insightful webinar on the latest advancements in reflective optics for multispectral systems. Presented by Register Now How to Improve Laser Applications

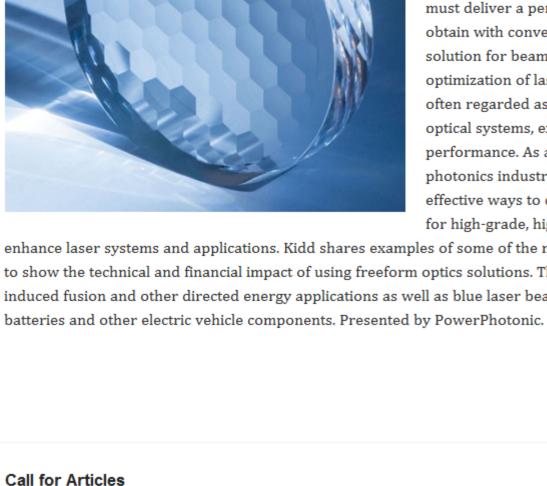
managers and designers of laser systems and applications that

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

must deliver a performance enhancement that is difficult to

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

Systems



editorial@Photonics.com, or use our online submission form.

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, costeffective 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 combing for laserinduced fusion and other directed energy applications as well as blue laser beam shaping for the welding of lithium-ion Register Now

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