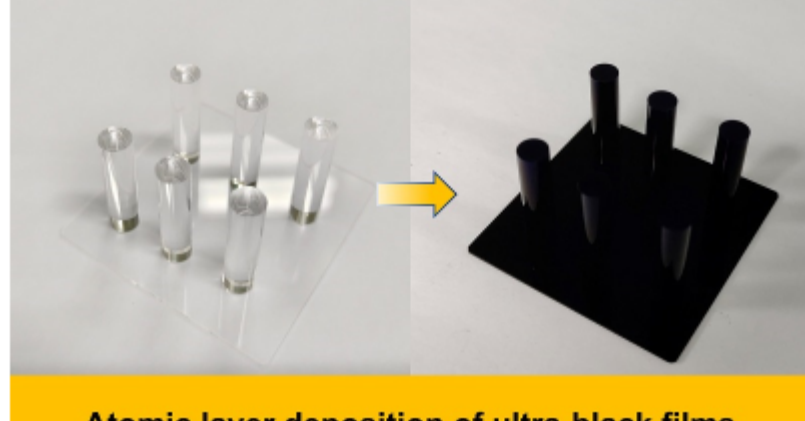




Weekly News

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Atomic layer deposition of ultra-black films

Ultrablack Coatings Achieve Broadband Absorption for Precision Optics

A broadband, ultrablack film from the University of Shanghai for Science and Technology and the Chinese Academy of Sciences could enhance the performance of telescopes and have other applications in space exploration and precision optics. In tests, the film achieved an average absorption as

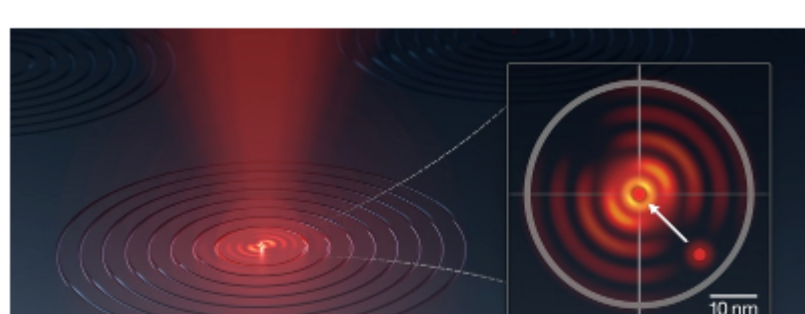
high as 99.4%, within a wavelength range of 400 to 1000 nm. [Read Article](#)



Research Project Will Revamp Fusion Analysis Method

A research project undertaken by the Center for Advanced Systems Understanding (CASUS) at Helmholtz-Zentrum Dresden Rossendorf aims to overhaul an analytical tool used to evaluate laser fusion. Scientists on the "X-ray laser optimization of laser fusion" project, led by Tobias Dornheim of CASUS, are to develop machine-learning methods to enable

a reliable theoretical description of warm dense matter. [Read Article](#)



Traceable Standards Could Speed Development of Quantum Technologies

Researchers at the National Institute of Standards and Technology and the University of Maryland have developed standards and calibrations for the optical microscopes used to

guide the centering of quantum dots within photonic chips. The method enables a precision down to 10-20 nm across the entire image from an optical microscope, allowing the correction of many individual quantum dots. [Read Article](#)

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Diffraction Gratings for Telecommunication

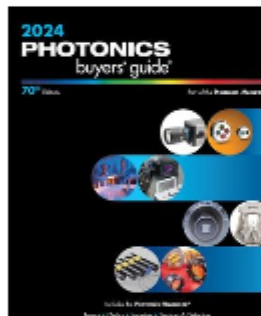
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CASTECH's high DE reflection grating is ideal for WSS and

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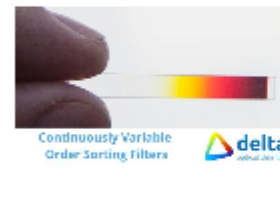
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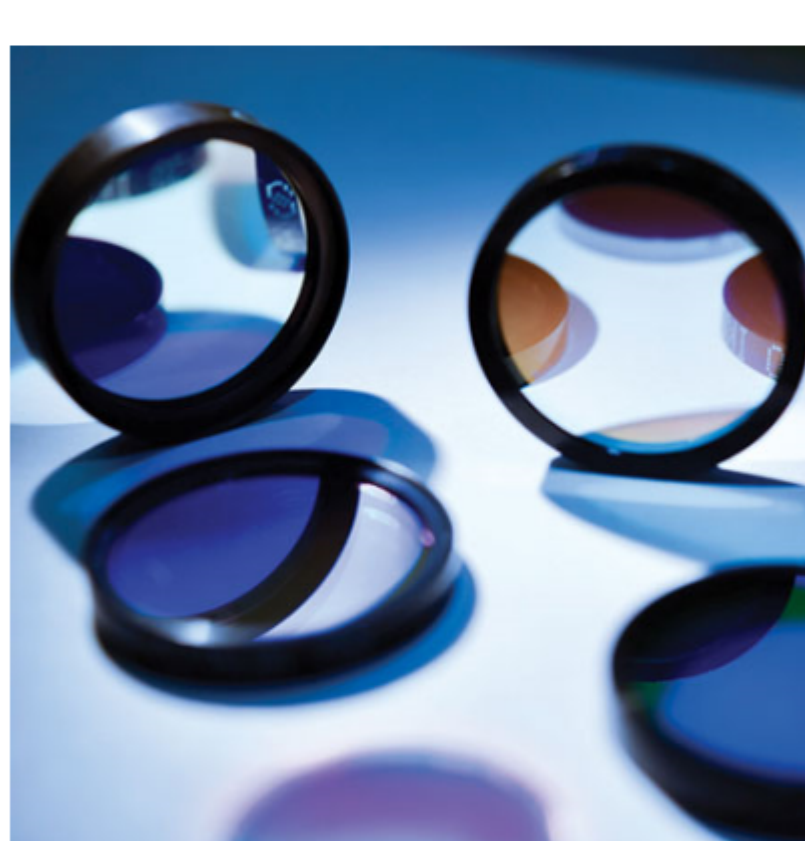
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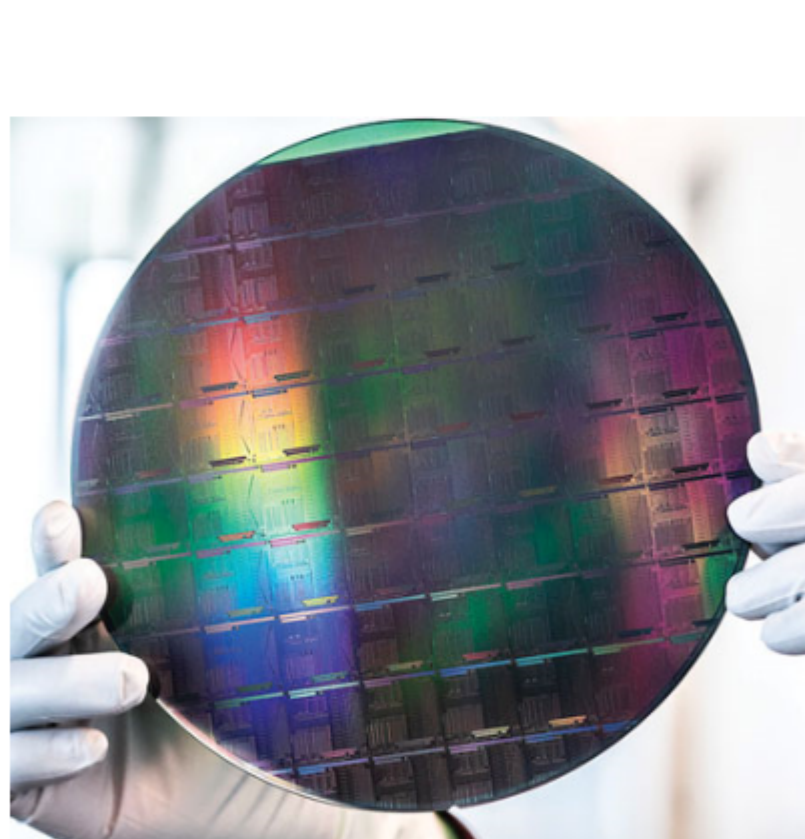
Optical Filters: Application and Design Considerations

Tue, Apr 23, 2024 1:00 PM - 2:00 PM EDT

Optical filters can discretely transmit or reject specific wavelengths or ranges of wavelengths of light. Utilizing this capability in photonics-based instruments creates the need for a better understanding of optical filter design considerations and how specifications influence performance and cost. Craig Hanson of MKS/Newport discusses the fundamental principles of optical coatings and filter types and explains the significance of filter parameters and the benefits of design review. He also explores accessory options and subsystem integration. Next Hanson unveils Newport's unique manufacturing processes and capabilities for custom optical filters from prototype to high-volume production. Finally, this presentation concludes with an open Q&A, for which Hanson is joined by Mark Roberts,

principal thin-film engineer at Newport. Presented by MKS Newport.

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Integrated Photonics for Quantum Computing

Tue, May 28, 2024 10:00 AM - 11:00 AM EDT

Realizing photonic quantum technologies, such as an optical quantum computer or a quantum communication link between distant superconducting qubits, will require the development of novel photonic components. Monolithic silicon or silicon nitride photonic platforms are falling with respect to the requirements of the quantum domain, and it is envisioned that a hybrid solution is needed. In this talk, Christian Haffner of IMEC shortly discusses what hybrid solutions the silicon photonic platform can offer in terms of detectors, sources, and modulators. His primary focus lies on the electro-optical modulator covering the requirements that the quantum world enforces. He compares the classical and quantum theoretical framework, and sketches out what performance metrics a

quantum electro-optical modulator needs to fulfill.

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All Things Photonics



Inside Silicon Photonics — With Mario Paniccia

Silicon photonics' evolution from application shrouded in uncertainty to discipline harboring vast application potential has commanded the attention of those in and beyond the fields of optics and photonics. **Mario Paniccia**, CEO of ANELLO Photonics, recounts his own journey through the budding sector, with recollections from his 20-plus-year career at Intel and insights from his latest undertaking: ANELLO Photonics' silicon photonics optical gyroscope.

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