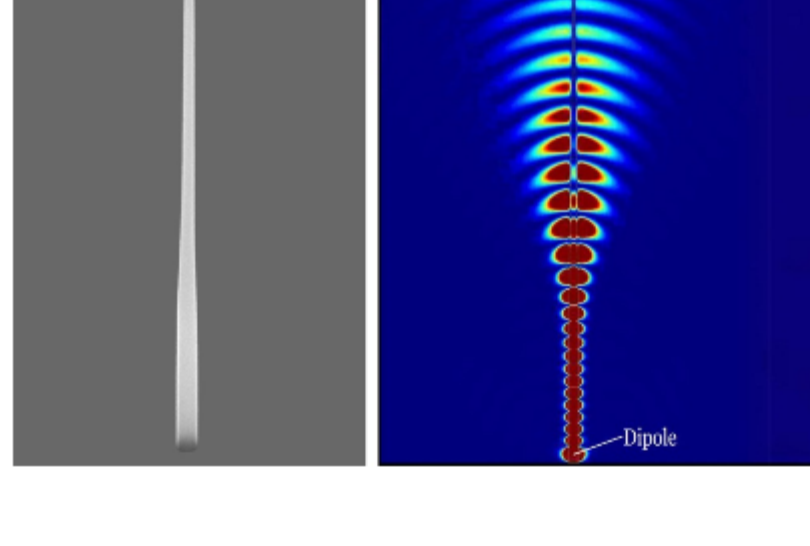


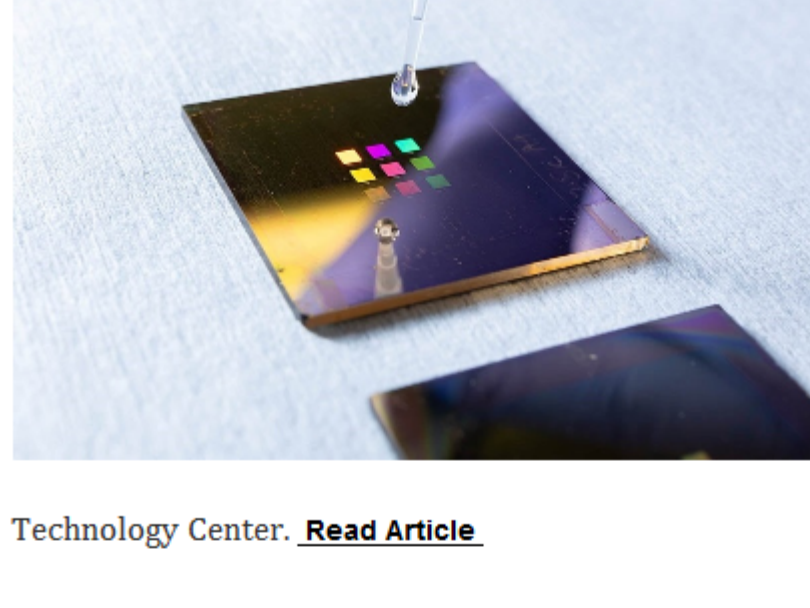


Weekly News



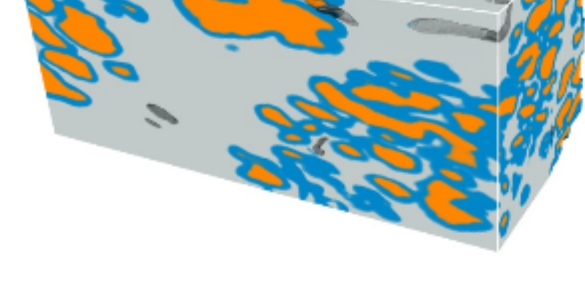
Near-Perfect Entangled Photons Generated from Quantum Dot Sources

Researchers at the University of Waterloo's Institute for Quantum Computing have developed a method to efficiently produce nearly perfect entangled photon pairs from quantum dot sources, paving the way for secure quantum communications. [Read Article](#)



Ultrasensitive Chirality Detector Could Improve Drug Design and Efficacy

A tunable plasmonic platform from University of Central Florida (UCF), which enables accurate detection of chiral molecules, could help pharmaceutical companies and biomedical labs classify enantiomers with speed and precision, leading to more efficient drug development. The platform for sensing chiral molecules is the work of a team led by professor Debashis Chanda at the UCF Nanoscience Technology Center. [Read Article](#)



Deep Learning Model Helps Target Prostate Cancer Treatments to Individual

A machine-learning model developed by researchers at the University of Washington provides 3D segmentation of the glandular tissue structures that are used for prostate cancer risk assessment by evaluating microscopy images. The deep learning-based model for gland segmentation could help guide critical treatment decisions for patients with prostate cancer and accelerate future research on how to optimize treatment decisions for individual patients. [Read Article](#)



Featured Products & Services



IDS NXT Malibu
IDS Imaging Development Systems GmbH
New camera: live AI overlays in compressed video streams.

The IDS NXT all-in-one AI system is being continuously expanded. Brand new: the intelligent industrial camera IDS NXT malibu. It combines consumer technology with Ambarella — known from action cams — with industrial quality and expertise from IDS.

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TRIOPTICS GmbH

Compliance with opto-geometric lens parameters and the precise centration and alignment of a lens are crucial for the image quality of the optical system. TRIOPTICS offers products and solutions to optimize these parameters and the final image performance directly during the manufacture of lens systems and to test finished lens systems in this respect.

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TWV640 Thermal Camera Core
BAE Systems Sensor

Solutions

The newly upgraded TWV640 thermal camera core, using the Athena™ 640 focal plane, captures clear, complete, low-noise images through darkness, dust, smoke, and fog. Improved features include contrast enhancement, Spotlight Mode, field pixel kill, and Improved Noise Equivalent Temperature Difference.

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AURA Light Engine
Lumencor Inc.

Why settle for archaic bulbs and weak LEDs when optimal solid-state performance and value are within reach? AURA Light Engine provides bright, stable, reproducible illumination for OEMs. Proprietary light sources and advanced electronics make this excitation subsystem ideal for instrument manufacturers. Customization is available upon request.

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Featured Video



FIREFLY3D Laser Scan Head for LPBF Applications - Novanta

FIREFLY3D is Novanta's next generation 3-axis scan head designed for Laser Powder Based Fusion (LPBF) machines in additive manufacturing applications. The FIREFLY3D is an enclosed, compact solution designed to increase productivity with real-time process monitoring and improved finish quality of LPBF manufactured parts.

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More News

[Fiber Oscillator Extends Femtosecond Lasing to VIS-Based Applications](#)

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Latest Webinars

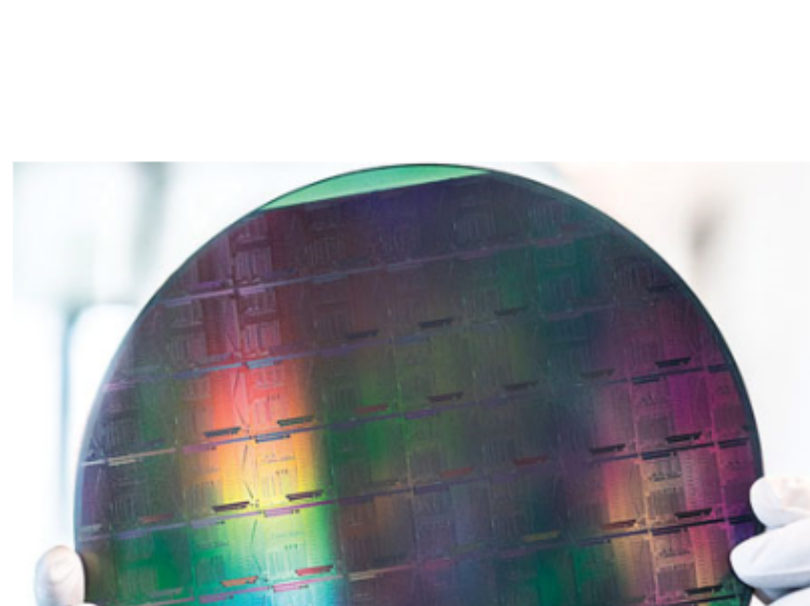


Optical Filters: Application and Design Considerations

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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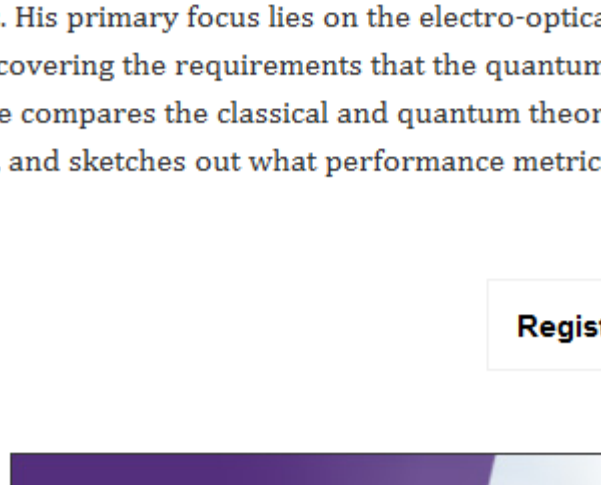
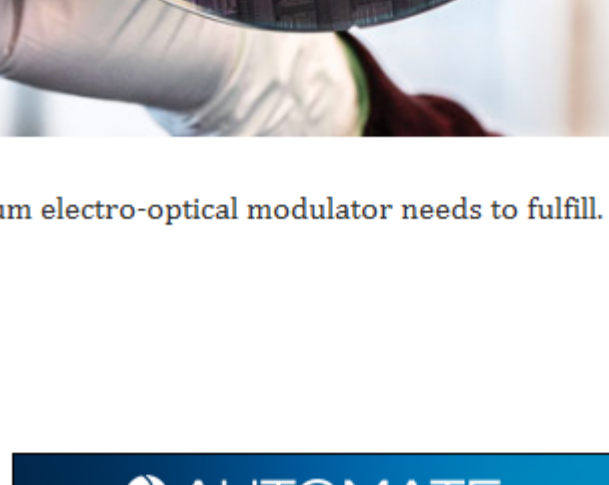


Integrated Photonics for Quantum Computing

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 short 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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