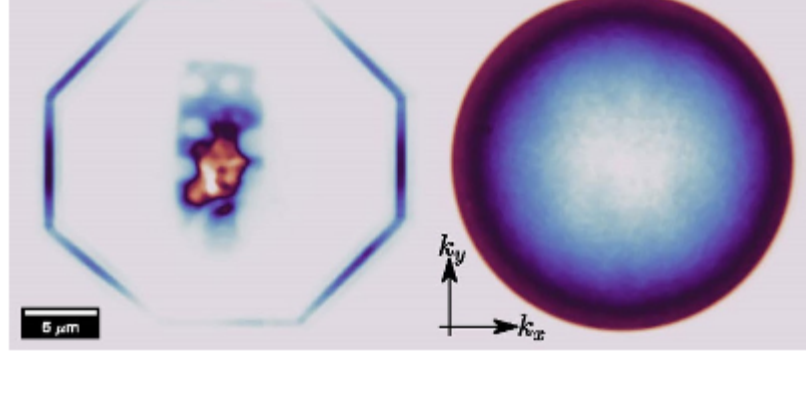




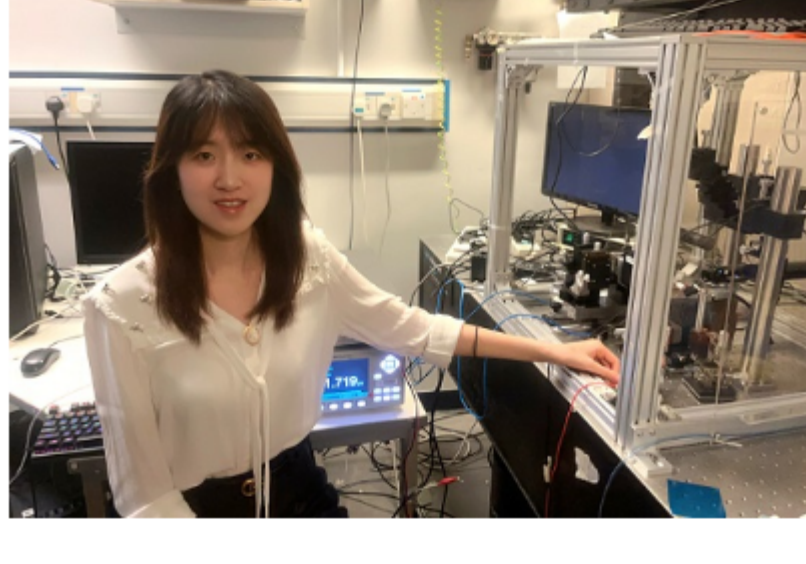
Weekly News



**Researchers Develop 2D Waveguides, Enable Dark Exciton Study**

A team at the U.S. Naval Research Laboratory, in collaboration with Kansas State University, has developed slab waveguides based on the two-dimensional material hexagonal boron nitride. NRL researchers also developed 3D electromagnetic models of the waveguides. The modeling results provide a

toolkit for designing future 2D devices that use slab waveguides. The technology has applications in optoelectronics and enables the study of dark excitons. [Read Article](#)



**Integration Method Efficiently Couples III-V with Silicon**

Researchers at the Hong Kong University of Science and Technology have developed an integration technique for efficient coupling of III-V compound semiconductor devices and silicon, paving the way for photonic integration at low cost, large volume, and high speed and throughput that could significantly impact data communications. [Read Article](#)



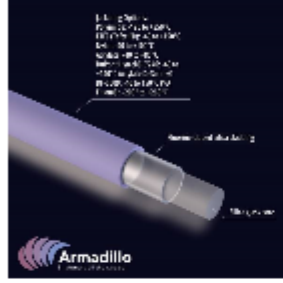
**Measurement Tool Helps Optimize Semiconductors for Optoelectronics**

To enable efficient, complete characterization of semiconductors, scientists at Helmholtz Zentrum Berlin developed a method that records 14 different parameters of transport properties in negative and positive charge carriers in a single measurement. The new method, which the researchers call Constant Light-Induced Magneto-Transport

(CLIMAT), is based on the Hall effect and could help scientists accurately assess new materials for optoelectronic devices in far less time than existing methods. [Read Article](#)



Featured Products & Services



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**Very High Image Quality Industrial Lenses**

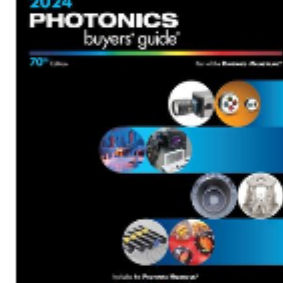
**Schneider Optics Inc., Industrial Optics**

The PYRITE lens series are

vibration insensitive lenses designed to be used with large area and line-scan sensors under harsh conditions as in many industrial applications. Very low chromatic aberrations plus low geometric distortion provide a very high image quality from edge to edge at a wide magnifications range. The V38-Mount fits to the modular Unifoc system with its large variety of accessories, including focusing mounts, extension tubes, and camera adapters.

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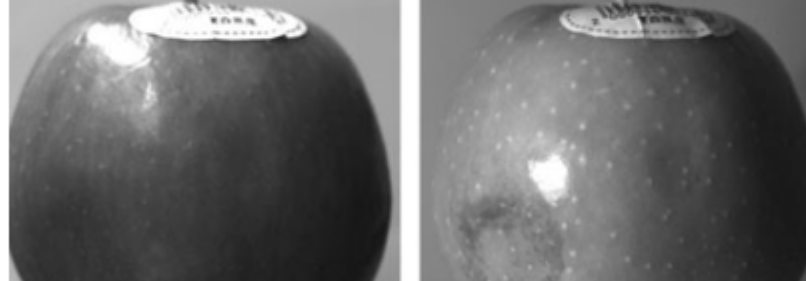
[SPAD Elevates Spatiotemporal Resolution in Conventional Microscopes](#)

[Hyperfluorescent Blue OLEDs Boost Display Efficiency, Stability](#)

[AEQIS Cools Positronium with Lasers, Enabling New Antimatter Studies](#)

[Metalenz Partners with Samsung on Facial Recognition Tech](#)

Latest Webinars



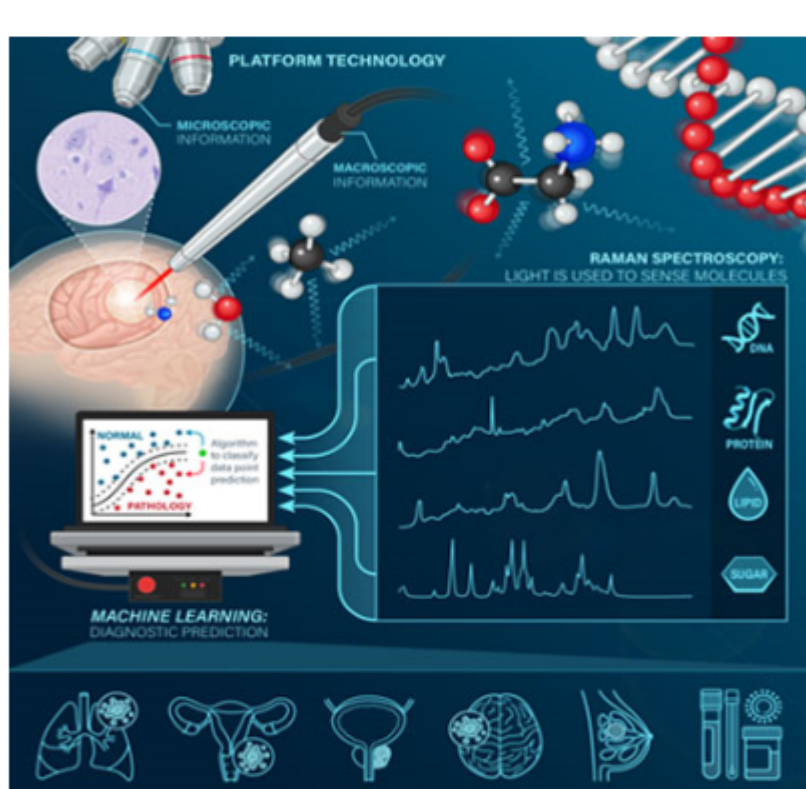
**Electromagnetic Manipulation: Revolutionizing Machine Vision**

Tue, Mar 5, 2024 1:00 PM - 2:00 PM EST

Join this webinar as Ryan Marti of Omron Automation delves into the realm of unique machine vision applications that push the boundaries of automation. Discover how machine vision technology can inspect cookies within the packaging, detect mold in rice for food safety, and even remove particulates from the air and cosmos. These groundbreaking solutions have the potential to revolutionize these industries, ensure safer food and enhanced electronics, and unveil the universe like never before. In this

session, Marti shares invaluable insights into the challenges faced in the machine vision and automation world and explores how to transcend normal visual spectrums to solve previously unsolvable problems. Get an exclusive firsthand look at the technology and methodologies employed in these remarkable applications. Don't miss this opportunity to witness the power of machine vision in unlocking new possibilities for automation. Presented by Omron Automation.

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**What is the Role of Vibrational Spectroscopy in Surgery and Diagnostics?**

Wed, Mar 13, 2024 1:00 PM - 2:00 PM EDT

Vibrational spectroscopy techniques are used for a wide range of materials characterization applications that require detailed molecular fingerprinting and quantification of molecular species based on the detection of specific vibrational bonds. In this talk, Frederic Leblond describes how the integration of technologies that rely on spontaneous Raman spectroscopy signal detection can complement current medical practice for surgical guidance, in situ diagnostics, and disease detection in biofluids. He presents case studies in infectious disease detection, neurosurgical oncology, breast-conserving surgery, bronchoscopy, prostate cancer diagnostics, and orthopedic surgery. He also addresses aspects relating to clinical translation,

commercialization challenges, and regulatory strategies. Finally, he presents a SWOT (strengths, weaknesses, opportunities, and threats) analysis as it is related to the clinical deployment of vibrational spectroscopy techniques.

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All Things Photonics



The conceptualization, development, and rollout of Thorlabs' Mobile Photonics Lab Experience is the ultimate story in optics and photonics accessibility. Thorlabs' vice president for global sales and business development, **Michael Mohammadi**, and director of photonics education, **Bill Warger**, share insights into Thorlabs' industry-acclaimed mobile resource as a vehicle for photonics education and technology outreach.

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