

This Week in PHOTONICS



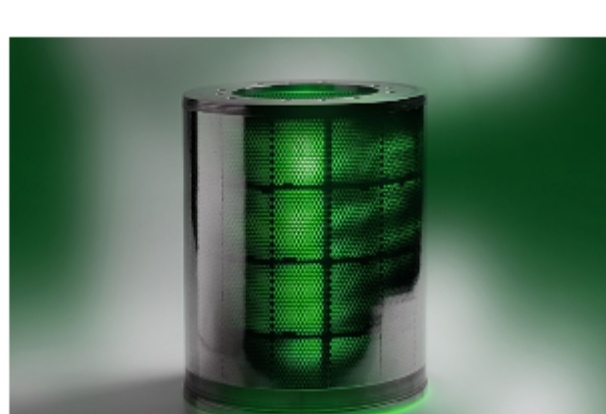
Gas Detection Identification & Quantification  **Free Webinar May 5th Register here!**

Top Stories

Photonic Projects Seek to Identify, Filter Out Microplastics

Two research projects with majority funding from the German Ministry of Education and Research seek to use photonics to address the issue of microplastics.

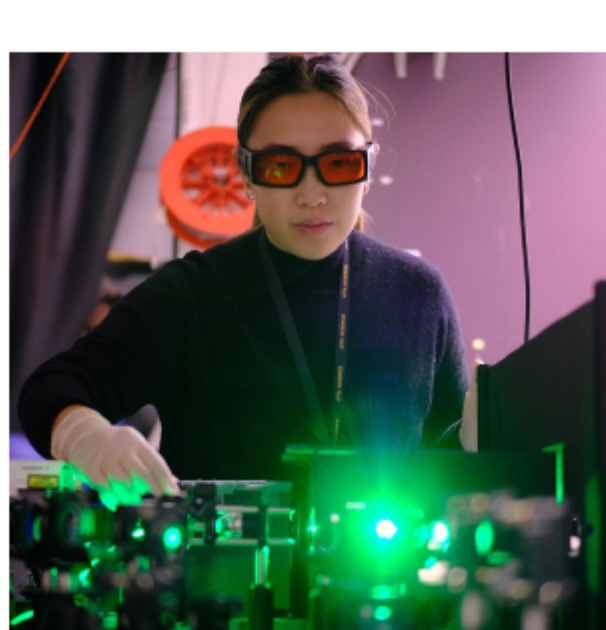
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Single-Photon Source Opens Door to Practical QKD

Researchers have developed a high-purity single-photon source that can operate at room temperature. The single-photon source combines a 2D material, hexagonal boron nitride, with an optical component known as a hemispherical solid immersion lens, to increase efficiency by a factor of six. The source marks a step toward practical applications of quantum technology.

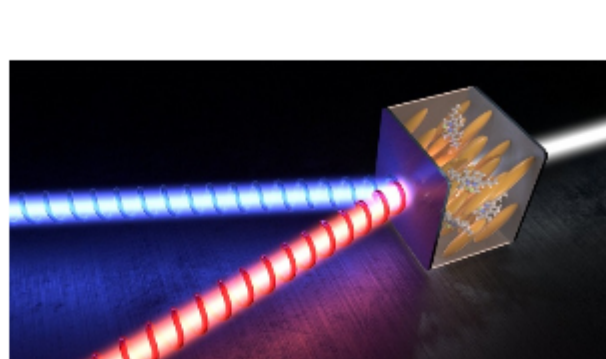
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Tunable Microlaser Achieves Optical Gain Through Persistent Spin Helix Lasing

A microlaser that is tunable in the range of 40 nm has been developed by researchers at the University of Warsaw, the Military University of Technology in Warsaw, and the University of Southampton. The proposed platform for microlasing could be used in quantum communications, in which information is encoded through light polarization.

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Featured Products

IR Filters

Deposition Sciences Inc. (DSI)

DSI designs and manufactures bandpasses, beamsplitters, ARs and absorption coatings for use in the MWIR thru LWIR wavelength regions, customized to specific applications. Using photolithography, we can also pattern these coatings with feature sizes as small as 20 µm.

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The New Hyper-Cam Mini xLW

Telops Inc.

The Hyper-Cam Mini xLW is an advanced compact IR hyperspectral imaging system that combines high spatial, spectral and temporal resolution for remote detection, identification, and quantification. It features small Size, Weight, and Power (SWaP) & high sensitivity over an expanded spectral range.

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Integrating Sphere Detectors

MKS/Newport

Newport Integrating sphere detectors have a photodiode detector mounted on integrating spheres with various sizes and is calibrated as a system, compensating for the attenuation caused by the sphere. The input beam is diffused inside the sphere so that the measurements are less sensitive to errors...

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New USB3 Industrial Cameras Available at Short Notice

IDS Imaging Development Systems GmbH

It's certainly no secret: semiconductors are currently in short supply worldwide and across all industries. This has a direct impact on the delivery times of products – including industrial cameras. IDS Imaging Development Systems recognized this challenge early on and decided to invest in new solutions.

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Upcoming Webinars

Motion Amplification and Other Camera-Based Full-Field Vibration Techniques

Tue, Apr 19, 2022 1:00 PM - 2:00 PM EDT

Jeff Hay, Ph.D., Founder and CEO of RDI Technologies, speaks on the Motion Amplification@ technique, a camera based, full-field motion and vibration technique that detects subtle motion and enhances it to a level visible to the naked eye. Hay also provides a comprehensive look at a range of new techniques that produce multiple layers of data extracted from video. This is done to better understand the motion in a scene. Frequency, amplitude, and phase are all fundamental to vibration. Each topic is discussed to demonstrate how they can be quantified and visualized. Presented by RDI Technologies.

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Adopting Deep Learning in Machine Vision: Scaling to Enterprise-Level Solutions

Wed, Apr 20, 2022 1:00 PM - 2:00 PM EDT

Enterprise-level manufacturing customers looking to leverage the power of deep learning and artificial intelligence to solve their quality inspection applications have unique needs. Quinn Killough of Landing AI offers best-in-class solutions for automated inspection applications. These solutions include efficient data collection and model generation across global production networks, as well as how to communicate and deploy these systems in companies across diverse populations that include subject matter experts, quality managers, and system engineers. Presented by Landing AI.

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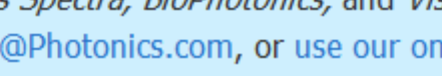
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