

.: Top Stories

Peter de Groot Elected into SPIE Presidential Chain

Peter de Groot, chief scientist at Zygo Corp., was elected to serve as the 2023 vice president of SPIE. The election brings de Groot into the SPIE presidential chain. He will serve as president-elect in 2024 and as the society's president in 2025.

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Edmund Optics Appoints Samuel Sadoulet CEO

Edmund Optics named Samuel Sadoulet CEO, succeeding Robert Edmund, who has retired. Sadoulet assumes responsibilities effective immediately. Also last week, Edmund announced that Marisa Edmund had been appointed chair of the board of directors, succeeding Robert Edmund.

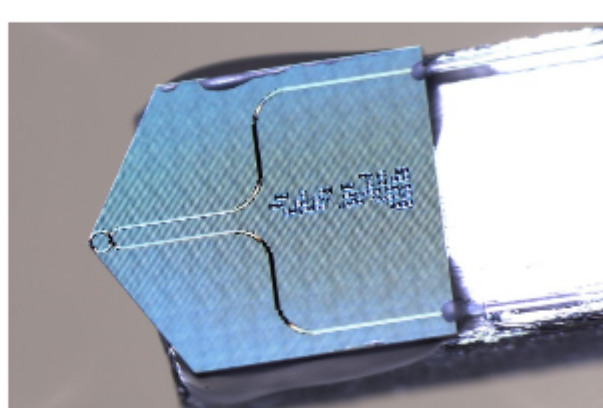
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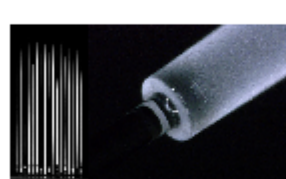
Quantum Advancement Combines Free Electrons and Photons

A collaboration between Swiss and German researchers demonstrated the generation of electron-photon pair states for the first time in a controlled way, using integrated photonic circuits on a chip. Using a new technique, they precisely detected the involved particles. The experiment could enable quantum-enhanced electron microscopy and adds free electrons to the toolbox of quantum technologies.

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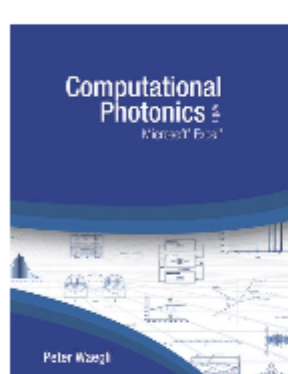
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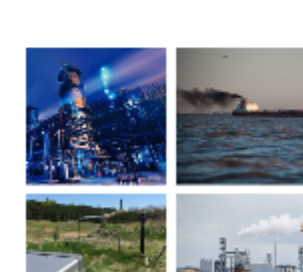


Affordable, Low-Profile Solutions for Gas Sensing

Thu, Sep 8, 2022 1:00 PM - 2:00 PM EDT

Brian Sanders and Alfred Mottola of VIGO Photonics share the latest advancements in infrared (IR) detectors for the gas sensing market. These detectors are able to be deployed in small form factor solutions across multiple industries while remaining cost effective. Sanders and Mottola highlight several of the methodologies that can be used for gas sensing and explain what types of gas can be detected using the various methods. Presented by VIGO Photonics.

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Airborne Remote Methane Quantification Using Thermal Infrared Hyperspectral Imaging

Thu, Sep 15, 2022 1:00 PM - 2:00 PM EDT

Methane is a powerful greenhouse gas. Many regulatory bodies around the world are taking significant steps toward sharply reducing emissions from the oil and gas sector. Airborne infrared hyperspectral imaging can visualize and quantify these emissions and gas leaks under various environmental conditions and industrial contexts. Benjamin Saute of Telops, shares on the capabilities of airborne-based methane emission detection systems were recently demonstrated in a measurement campaign composed of multiple controlled releases with methane flow rates. This test showed that infrared hyperspectral imaging is a highly efficient and sensitive tool for the detection and quantification of methane leaks.

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