

This Week in PHOTONICS

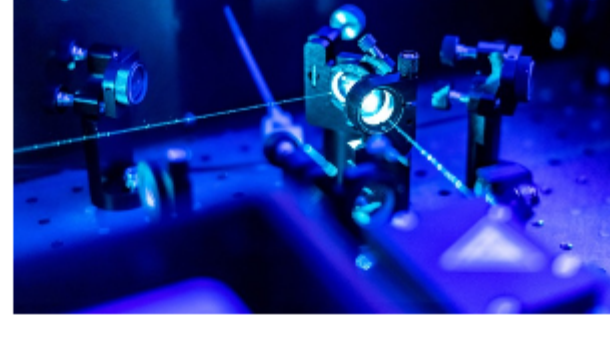


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:: Top Stories

Blue Light Technique Will Advance Nanoscale Tech

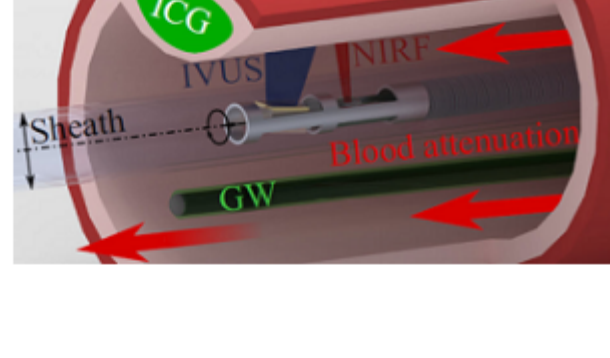
Researchers at Brown University have developed an approach to scattering-type scanning near-field microscopy (s-SNOM) that uses blue light to enable measurement of electrons in semiconductors, as well as other nanoscale materials. The findings, which the researchers said are a first in nanoscale imaging, provide a workaround to a long-standing problem that has limited the study of key phenomena in a variety of materials that could lead to more energy-efficient semiconductors and electronics.



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Coated Guidewire Boosts Intravascular Assessment Accuracy

Although intravascular near-infrared fluorescence (NIRF) and intravascular ultrasound, when used in tandem, provide a powerful technique for detecting conditions like plaque buildup in arteries, variable attenuation of blood inside vessels can interfere with the accuracy of NIRF measurements. An approach developed by researchers at the Technical University of Munich uses a fluorophore-coated guidewire to steer an imaging probe and obtain a measure of blood attenuation, in real time, during an intravascular NIRF examination. The method also corrects signal intensities to allow accurate measurement of blood attenuation in the form of correction factors, on a frame-by-frame basis.



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Low-Cost Camera Helps Forecast Volcanic Eruptions

To help scientists track volcanic events over the long term and predict future eruptions, an international team has designed a low-cost, low-power sulfur dioxide camera for permanent deployment on volcanoes around the world. The camera will allow volcanologists to monitor geochemical changes in volcanoes on a continuous basis during daylight hours.



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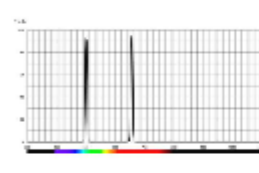


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:: Upcoming Webinars

Addressing the Measurement Challenges of XR Device Optics: Displays, Lenses, and Waveguides

Thu, May 4, 2023 1:00 PM - 2:00 PM EDT
The pace of innovation in AR/VR/MR, collectively XR, devices continues to yield new technologies, optical approaches, and device configurations. To keep up, designers and manufacturers need to be able to meet an expanding range of quality measurement and inspection demands at both the component and device level. Mike Caputo of Radiant Vision Systems covers the current landscape of XR optical metrology needs and shares flexible and cost-effective approaches to measure XR devices in the lab and in production. Presented by Radiant Vision Systems.

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External Light Sources for Co-Packaged Optics: Applications and Beyond

Tue, May 9, 2023 1:00 PM - 2:00 PM EDT
The networking and computing application landscape is evolving to be cost effective, bandwidth dense, and power efficient. These new requirements bring optics and electronic processors closer together in a single package or more commonly, as co-packaged optics (CPOs). The co-packaged optics arrangement works well for all other transceiver parts, except for the lasers. Lasers are better suited to be placed outside the package inside external light source (ELS) enclosures to support these new applications. Erman Timurdogan, Ph.D. of Lumentum discusses various external light source solutions with emphasis on performance and cost reduction.

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