

This Week in PHOTONICS



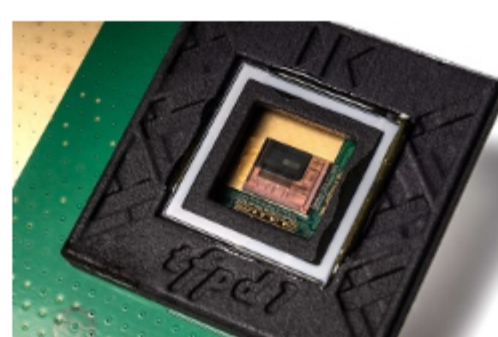
Shortwave Infra, Broadband Spectrum Solution Provider
State-of-the-Art of Customized Service and Simulation

Top Stories

Imec Applies Pinned Photodiode Structure to Thin-Film SWIR Imager

Engineers at imec have integrated a pinned photodiode (PPD) structure in thin-film image sensors. According to the researchers, the addition of a pinned-photogate and a transfer gate into the thin-film image sensor architecture exploits the superior absorption qualities of thin-film imagers — beyond 1 μm .

[Read Article](#)



Trio Partners to Commercialize Encapsulation on Perovskite Solar Cells

Verde Technologies Inc., a perovskite-focused thin-film solar company, has partnered with Northern Illinois University (NIU) and the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) to bring its perovskite solar cells to market.

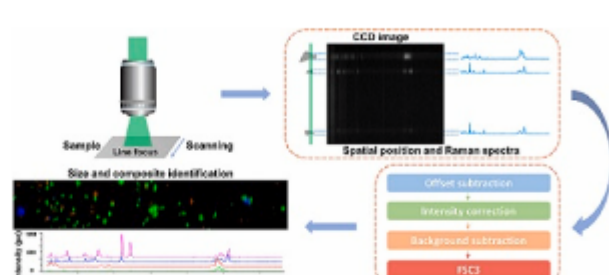
[Read Article](#)



Line-Scan Raman Spectroscopy Detects Micro- and Nanoplastics

A line-scan Raman spectroscopy method developed by the Chinese Academy of Sciences and Cardiff University significantly boosts detection speed for both micro- and nanoplastics. The researchers reported a line-scan Raman microspectroscopy system capable of rapid imaging and chemical identification of microplastics down to 2000 nm in size, and capable of imaging a 40- \times 10- μm particle in 10 s, representing a speed improvement by about two orders of magnitude compared to confocal imaging.

[Read Article](#)



Featured Products & Services



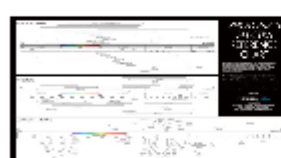
[Shortwave Infra Solution Provider](#)

Edison Opto USA Corp.

Working with our partners, we can design, develop and manufacture any broadband LED modules you want. Our chip options cover the range from visible light to near-infrared light. Our modules are well-suited for a high number of applications. Anything you can think of, we can design and build.

[Visit Website](#)

[Request Info](#)



[Photonic Spectra Reference Chart](#)

Photonic Media

This full-color, 30 \times 20.5-inch poster of the photonics spectrum displays the major commercial laser lines, detectors and optical materials in the ultraviolet to the far-infrared and beyond. The convenient format makes it easy to quickly find the information you need.

[Visit Website](#)

[Request Info](#)



Northrop Grumman SYNOPTICS

Now Offers IBS Coatings



[LEARN MORE](#)

More News

[Cognex Acquires Machine Vision Optics Developer Moritex Corp.](#) [Read Article](#)

[Electro-Optic Modulator Integrated on Single-Mode Optical Fiber](#) [Read Article](#)

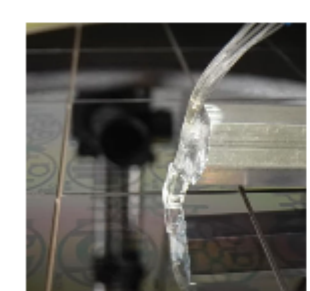
[Apollon, MIT to Collaborate on Noninvasive Glucose-Monitoring Technology](#) [Read Article](#)

[Quantum Light Source Generates Single Photons, Encodes Data](#) [Read Article](#)

[Tomography Techniques Recover Scattered Light to Speed 3D Imaging](#) [Read Article](#)



Upcoming Webinars

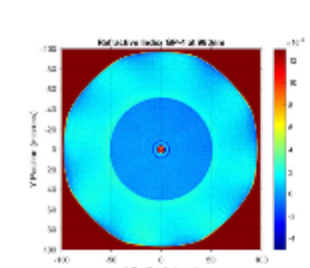


Precision Automation Principles for the Optimal Testing and Packaging of PIC Devices

Thu, Sep 21, 2023 1:00 PM - 2:00 PM EDT

Production-scale testing of silicon photonic devices continues to be a challenge due to the multi-degree-of-freedom, high-precision, optical alignments required for wafer- and die-level testing. Wide variances in chip designs and coupling features complicate test procedures, making it difficult to identify a system capable of producing repeatable measurements across various topologies. Brett Heintz of Aerotech Inc. provides a guide for selecting precision motion equipment to minimize the impact of positioning errors on optical alignment test results. Presented by Aerotech.

[Register Now](#)



The Past, Present, and Future of Optical Fiber

Tue, Sep 26, 2023 1:00 PM - 2:00 PM EDT

Hair-thin strands of glass, intrinsically transparent and strong, connect today's world in ways that are unimaginable even 20 years ago. Over the past 50 years, glass optical fibers have advanced from passive low-loss conduits for light to active light-amplifying hosts to a myriad of nano-to-macro-structuring of core-clad combinations. John Ballato of Clemson University discusses this history as a looking glass into the future of optical fibers and its symbiosis with light to address the question: What can the next 50 years bring? Sponsored by Fibercore and Lumatec GmbH.

[Register Now](#)



CALL FOR ARTICLES!

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, and *Vision Spectra*). Please submit an informal 100-word abstract to editorial@photonics.com, or use our [online submission form](#).



We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member of our website, Photonics.com. You may use the links below to manage your subscriptions or contact us.

Questions: info@photonics.com

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949

© 1996 - 2023 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.