

This Week in PHOTONICS

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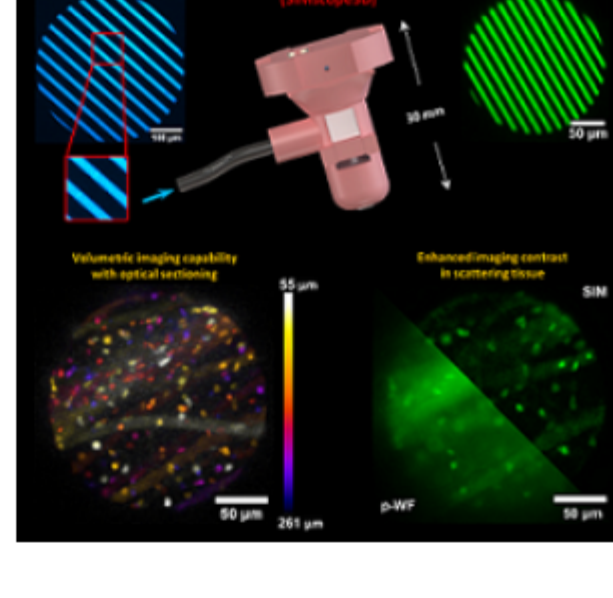
Gas Detection Identification & Quantification  **Free Webinar May 5th** [Register here!](#)

Top Stories

Microscope Marks Head-Mounted Advance Toward Treating Neurological Disorders

Researchers from the University of Colorado Boulder, the University of Colorado Anschutz Medical Campus, and Arizona State University have developed a head-mounted, lightweight, fluorescence microscope that provides full 3D imaging and enhanced contrast in scattering tissue through optical sectioning.

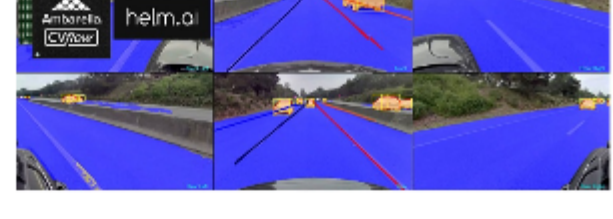
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Ambarella Launches Collaborations on ADAS Software, Advanced Sensing

Ambarella Inc., an edge AI semiconductor and software company, and Helm.ai, a developer of next-generation AI software, have released a perception software for the Ambarella CVflow AI SoC architecture to enable Helm.ai's ADAS system software on the Ambarella platform. In a separate collaboration, Ambarella and Lumentum have introduced a joint reference design aimed at smart building applications.

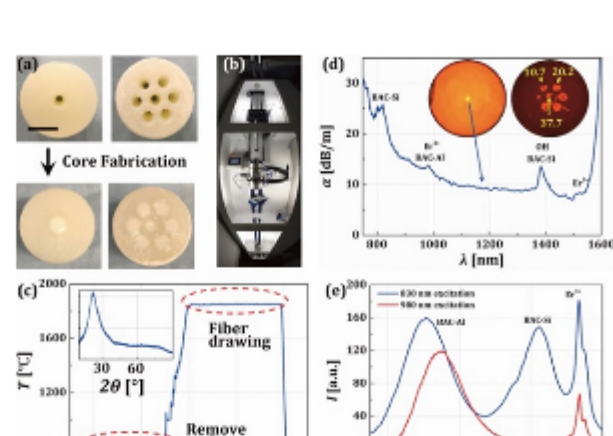
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Additive Manufacturing Method Disrupts Status Quo in Optical Fiber Fabrication

Researchers at Harbin Engineering University and the University of New South Wales demonstrated the additive manufacture of silica optical fiber preforms. According to the research team, additive manufacturing could transform the way specialty optical fibers are fabricated.

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Ultrafast Fiber Lasers with <50 fs

HÜBNER Photonics GmbH
HÜBNER Photonics' VALO

Aalto femtosecond fiber lasers have pulse durations of <50 fs and peak powers of >2 MW from compact and stable turn-key systems. The lasers have very attractive features for applications in biomedicine, spectroscopy and micro-machining.

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Industrial Laser Safety at a Glance

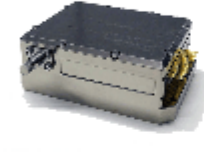
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A straightforward guide, offering clear, real world explanations of laser safety elements and the necessary background materials for the industrial laser environment.

It raises awareness of the dangers of laser exposure, the proper tools needed to protect oneself from the potential hazards of industrial lasers...

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Blue 450 nm Laser Diode

PhotonTec Berlin GmbH

PhotonTec Berlin extends the wavelength of high-power laser diodes to blue 450 nm. The modules come with hermetically sealed packages in compact size with integrated thermistor, photodiode, and optional red aiming. The output power reaches up to 120 W from 200 μm or 400 μm optical fiber.

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LASER PHOTONICS

ALL THINGS PHOTONICS
A podcast from Photonics Media

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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Achieving Ultralow-Loss Photonics Array Alignment
Tue, Apr 26, 2022 1:00 PM - 2:00 PM EDT
Two- and three-dimensional photonic arrays are commonly used for coupling light in photonic integrated circuits. With the increasing demand for ultra-low loss transmission in applications such as telecom, artificial intelligence (AI), virtual reality (VR), and quantum computing, the need for fast and precise alignment of photonic arrays to other devices is critical. Darrell Paul will present the current industry challenges and limitations as well as automation solutions for achieving ultra-low loss photonics alignment. Presented by Aerotech.

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All Things Photonics

Silicon photonics pioneer and President of Luminous Computing **Michael Hochberg** joins Luminous' CEO **Marcus Gomez** for a conversation about advancing AI supercomputing. The company's photonic approach is supported by a recently announced \$105 million Series A award from investors including Bill Gates. A second segment revisits the notion of sending invertebrate organisms into space with help from optical components and devices.

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