

This Week in PHOTONICS



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:: Top Stories

Industrial Photocatalyst Harnesses the Visible Spectrum

Researchers at the University of Johannesburg have developed a photocatalyst that can harness the visible portion of light given by the sun. This differentiates the photocatalyst from others, like titanium dioxide, which can capture only the ultraviolet (UV) spectrum. The advancement points to the newly developed photocatalyst's utility for multiple industrial applications where sunlight or electrical light is available to facilitate chemical processes. Notably, the researchers said, the photocatalyst could be used for bulk water treatment.

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BeeOLED Emerges from Stealth to Develop Deep-Blue OLED Emitter Tech

Dresden, Germany-based startup beeOLED has raised €13.3 million (\$14.4 million) in series A funding to further develop its high-efficiency deep-blue emitter technology and advance the emitters toward commercial availability.

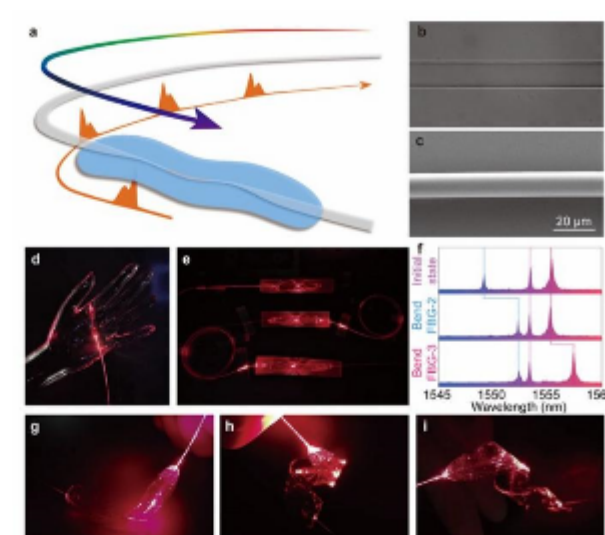
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Skin-Like Microfiber Grating Gauges Cardiovascular Wellness

Researchers from Nanjing University have developed a hemodynamics monitoring technique that relies on a configurable, skin-like microfiber Bragg grating group to deliver information on the real dynamics of the systemic cardiovascular system, such as heartbeat, angiectasis, and pulse wave propagation. The system overcomes common bottlenecks to biophotonic sensing mechanisms that use commercial fiber Bragg grating (FBG) devices.

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:: Featured Products & Services

HyperFine Spectrometer
LightMachinery Inc.
Designed for measuring hyperfine spectra and subtle spectral shifts, the HyperFine spectrometer from LightMachinery is a compact spectrometer capable of 1 picometer resolution. It is ideal for pulsed laser characterization and for measuring the small spectral shifts from Brillouin or Raman scattering.

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Photonics uEye XLS
IDS Imaging Development Systems GmbH
Cost-effective cameras: More variety in industrial image processing. Budget-friendly cameras are the backbone for price-sensitive automation projects and therefore an important growth driver. IDS Imaging Development Systems has developed several camera families for this purpose.

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Diffraction Gratings for Telecommunication
CASTECH INC.
CASTECH's high DE reflection grating is ideal for WSS and other applications in the optical communication industry. The high-precision design of the grating provides outstanding diffraction efficiency and perfect uniformity.

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CO₂ Laser Glass-Processing
NYFORS Teknologi AB
CO₂ laser glass-processing is designed to produce high-power and sensitive photonic components and complex structures. It guarantees contamination-free processing for fiber linear, 2D and gapless array splicing, ball lensing, end-capping, and many other challenging processes.

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:: More News

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Messe Stuttgart Cuts Stand-Alone LASYS Industry Trade Fair [Read Article](#)

TriLite Partners with ams OSRAM on RGB Diodes for AR Displays [Read Article](#)

Computer Vision Enhanced Sensors Aid Mobility-Challenged Patients [Read Article](#)

SPIE Launches New Biophotonics Journal [Read Article](#)

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:: 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.

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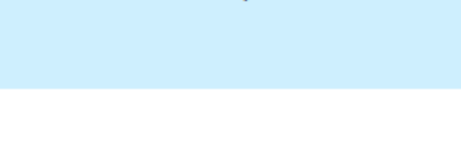
The Past, Present, and Future of Optical Fiber
Tue, Sep 26, 2023 1:00 PM - 2:00 PM EDT
Hair-thin strands of glass, intrinsically transparent and strong, connect today's world in ways that are unimaginable even 20 years ago. Over the past 50 years, glass optical fibers have advanced from passively low-loss 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.

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