

This Week in PHOTONICS



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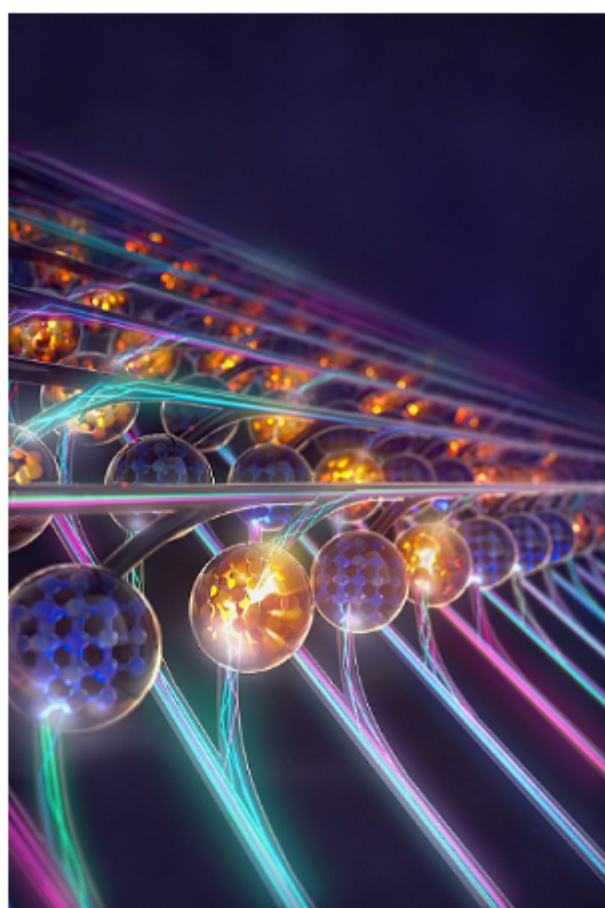
Over 70+ webinar presentations
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Top Stories

Light-Powered Matrix Multiplications Fuel Processing Capabilities

Researchers from the University of Münster have developed photonic processors that combine processing and data storage on a single chip. Led by Wolfram Pernice, a professor at the Institute of Physics and the Center for Soft Nanoscience at the University of Münster, the researchers developed a hardware accelerator for so-called matrix vector multiplications, which serve as the backbone of neural networks.

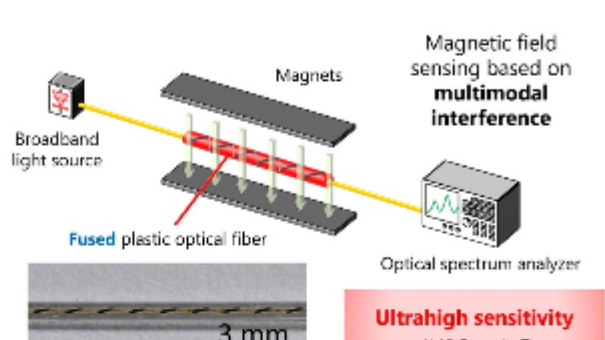
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Sensor Design Grants New Life to Damaged Optical Fibers

An international collaboration has found new use for damaged optical fibers, in measuring magnetic fields, developing a sensor design that is significantly more sensitive than conventional fiber optic methods of magnetic detection, relying on the "fiber fuse effect" that occurs when high-powered light is injected into a damaged or low-performing optical fiber.

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Robotically Controlled Laser May Improve Minimally Invasive Surgery

Robotic engineers at the Wyss Institute for Biologically Inspired Engineering at Harvard University have developed a microrobot designed to steer a laser within the body to aid in minimally invasive surgery.

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Featured Products

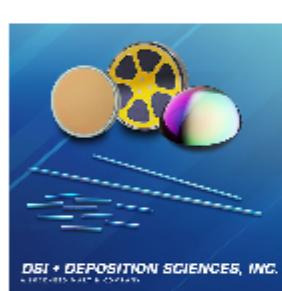


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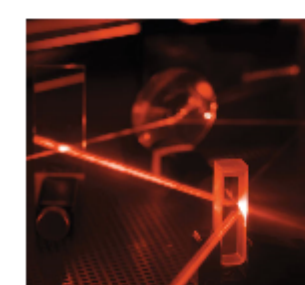
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Upcoming Webinars



Choosing the Right Fused Silica for Applications in the Near-Infrared (NIR)

Tue, Mar 2, 2021 1:00 PM - 2:00 PM EST

The range of applications in the NIR spectrum is expanding. Many of these are laser based. Finding the most suitable fused silica for a particular application can be challenging. In this webinar with Todd Jaeger, Ph.D., Head of Sales - Optics at Heraeus Conamic, you will learn about what material properties effect performance, what characteristics are key for your application and how to balance price and performance. Presented by Heraeus Conamic (Heraeus Quartz North America).

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