Thursday, July 13, 2023

This Week in PHOTONICS

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.: Top Stories

Researchers Demonstrate Visible Wavelength Femtosecond Fiber Laser

Researchers from Laval University reported the development of the first fiber laser that can produce femtosecond pulses in the visible range of the electromagnetic spectrum. Fiber lasers producing ultrashort, bright visible-wavelength pulses could be useful for a variety of biomedical applications as well as materials processing.

Read Article

Rochester Proof of Principle Makes Fusion Targets Mass-Producible

Researchers at the University of Rochester's Laboratory for Laser Energetics (LLE) have demonstrated a method that aims to make inertial confinement fusion suitable for affordable mass production. According to the researchers, the method supports the realization of a fusion power plant.

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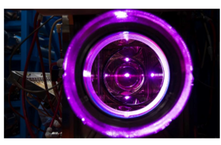

Kerr Combs Drive Optical Connections for Scalable Data Transfer

To surmount the bandwidth constraints and high energy costs that limit the performance and scalability of computing systems, researchers at Columbia Engineering, the Fu Foundation School of Engineering and Applied Science, developed a Kerr comb-driven, silicon photonic chip-based data communication link for data transfer.

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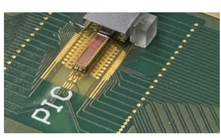

.: Featured Products & Services

Crystal Growth & Cold Crucible Furnaces

ECM USA Inc., ECM Greentech Cyberstar

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Coherent Names Deputy CTO, Appoints VP: People in the News: 07/12/23 Read Article

CMU, Fujitsu Team Up for Dynamic 3D Structure Representation Read Article

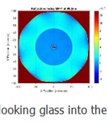
.: Upcoming Webinars

Nanoscale Imaging Techniques

Wed, Aug 2, 2023 1:00 PM - 2:00 PM EDT

Golshan Coleiny of Fundamental Optical Solutions shares a brief history of nanoscale imaging with a focus on optical technologies, addressing many of today's challenges in optical limitation imaging and other applicable technologies. She discusses techniques that utilize optical nanomicroscopy for higher resolutions and their advantages and limitations in comparison to non-optical nanomicroscopy. Finally, this presentation shares a road map for further development of advanced tools in nanotechnology.

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?

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