Thursday, July 20, 2023

This Week in PHOTONICS

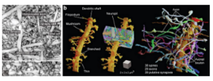
PHOTONICS MEDIA photonics.com

.: Top Stories

Brain Imaging, Image Reconstruction Combine in Single Workflow

Scientists at Institute of Science and Technology Austria (ISTA) have developed an imaging technology to analyze live brain tissue at a scope and spatial resolution that, according to the researchers, was not previously possible. The technology, called Live Information Optimized Nanoscopy Enabling Saturated Segmentation (LIONESS), allows dense, 4D, nanoscale reconstruction of living brain tissue.

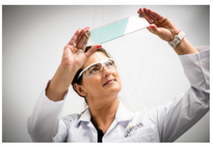
Read Article



G&H Acquires Thin-Film Coatings Firm Artemis Optical

G&H has made its second acquisition in less than a month, acquiring Artemis Optical, a developer and manufacturer of thin-film coatings. The deal is worth up to £8.9 million ($11.5 million). The acquired company will operate under the name G&H | Artemis.

Read Article



Fiber Optic Tag Enables Efficient All-Optical Link Encryption

In an advancement that could improve the way that optical distribution networks are maintained, researchers at Shenzhen University have demonstrated an encrypted fiber optic tag for all-optical labeling and the recognition of optical transmission channels, such as access networks. Unlike traditional optical link labeling methods, the fiber optic tag makes full use of the optical link to achieve all-optical reading, recognition, and restoration of link information.

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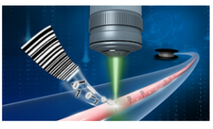

.: Featured Products & Services

Pulsed Laser Spectrum Analyzer

Bristol Instruments Inc.

The 772B-MIR Laser Spectrum Analyzer is for pulsed lasers operating from 1 to 12 µm. It measures wavelength to an accuracy of ±10 parts per million, and bandwidth and longitudinal mode structure to a resolution of 4 GHz, providing the ideal solution for scientists and engineers who need to know the spectral properties of their pulsed mid-IR lasers.

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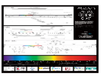

Photonics Spectra Reference Chart

Photonics Media

This full-color, 30 × 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.

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.: More News

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Tin Coatings' Growth Effects Reveal a Path to Precise Control Read Article

Multimodal Microspectroscopic Approach Targets Cancer's Spread Read Article

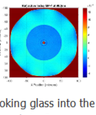
.: Upcoming Webinars

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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