Thursday, April 25, 2024

PHOTONICS spectra

Weekly News

Intech 2024: AI Arrives on the Shop Floor

INTECH, the annual in-house trade show of laser pioneer TRUMPF was prepared to welcome 3000 guests — many of them customers — to its Ditzingen, Germany premises, the site of the company's global headquarters. When Intech started on April 9, the company made sure that all machines in the halls of TRUMPF's application center were staffed with the appropriate technology experts, primed and ready to speak with the visitors. Read Article

EPIC Names Recipients of Lifetime Achievement, CEO Awards

The European Photonics Industry Consortium (EPIC) has named founder and CEO of art photonics GmbH Viacheslav Artyushenko and founder and CEO of LASEA Axel Kupisiewicz winners of the EPIC Lifetime Achievement Award and the EPIC CEO Award, respectively, for their contributions and leadership in the optical fiber industry. Read Article

Innovation Award Winners for Laser Technology Honored in Aachen

cleansort GmbH, a company using laser-induced breakdown spectroscopy for the sorting of recyclable materials, earned the first place prize of the 2024 Innovation Award for Laser Technology. cleansort took this year's award — and €10,000 (~$10,644) in prize money — for its "Cleansort process." The smart software-enhanced solution uses a combination of laser ablation and laser spectroscopy to increase resource efficiency and reduce material costs, energy costs, and greenhouse gas emissions. Read Article

Featured Products & Services

Ultrafast Fiber Lasers: <50 fs, 2 W

HUBNER Photonics GmbH

HÜBNER Photonics proudly announces the next generation of the VALO femtosecond lasers. The new Tidal delivers pulse durations of typically 40 fs at 2 W of output power. Due to the exceptional peak power and the integrated dispersion pre-compensation unit, it is an ideal tool for nonlinear applications like high harmonic imaging, broadband terahertz generation, and nonlinear wafer inspection.

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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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Looking for something else? Check the Photonics Marketplace.

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Photonic Chip Enables 160 TOPS/W Artificial General Intelligence

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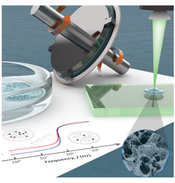
Imageomics Applies AI and Vision Advancements to Biological Questions

Fraunhofer ILT Takes Lead on PriFUSIO Fusion Energy Project

Latest Webinars



Brillouin Microscopy for Cell and Tissue Imaging

Wed, May 15, 2024 1:00 PM - 2:00 PM EDT

The interaction between photons and acoustic phonons within materials, first described by Leon Brillouin, has been widely investigated to characterize the mechanical and physical properties of samples. To translate this technology to biomedical applications in which mechanical properties are often critical, Giuliano Scarcelli's lab has developed high-resolution spectrometers at high throughput and combined them with optical microscopes to yield 3D-imaging modalities that use label-free biophysical properties as contrast mechanisms for imaging. Scarcelli shares areas of application and future developments of this research. Sponsored by LightMachinery.

Register Now

Optical Frequency Combs: The Pinnacle of Precision from the Visible to the MIR

Thu, May 16, 2024 11:00 AM - 12:00 PM EDT

In this webinar, Thomas Quenzel from Menlo Systems delves into the fundamental principles behind frequency comb generation and manipulation, shedding light on its transformative potential across multiple spectral domains. He shares about the world of precision measurement, where frequency combs serve as indispensable tools for metrology, spectroscopy, and beyond. From ultraprecise optical clocks to high-resolution molecular spectroscopy, discover how frequency comb technology enables unprecedented levels of accuracy and resolution in scientific research and industrial applications. For a seasoned researcher, industry professional, or enthusiast who is eager to uncover the cutting-edge developments in frequency comb technology, this webinar offers valuable insights and inspiration. Join as Quenzel unravels the vast potential of frequency comb technology and its transformative effect on the future of science and technology. Presented by Menlo Systems.

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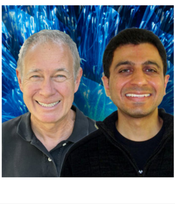
All Things Photonics



The Neuromorphic Photonics Roadmap — With Paul Prucnal and Bhavin Shastri

Paul Prucnal, professor of electrical and computer engineering and director of the Center for Network Security and Access (CNSA) at Princeton, and **Bhavin Shastri**, assistant professor in the Queen's University Department of Physics, Engineering Physics & Astronomy, discuss the neuromorphic photonics roadmap and the technology area's prospects for success.

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