Thursday, February 2, 2023

This Week in PHOTONICS

PHOTONICS MEDIA photonics.com

.: Top Stories

Swave Photonics Takes Top Prize at 2023 SPIE Startup Challenge

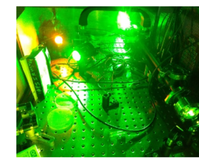
Swave Photonics, a Silicon Valley-based developer of holographic extended reality (HXR) technology, earned the $10,000 top prize in the 2023 SPIE Startup Challenge. The annual competition, now in its 13th year, was held yesterday at SPIE Photonics West. Swave CEO Mike Noonen was among 10 finalists who delivered a company pitch to a panel of six industry judges.

Read Article

Simple Approach to Laser Color Conversion Uses SRS in Ionic Liquids

Scientists from Brookhaven National Laboratory showed that ionic liquids provide an efficient means to convert one color of laser light into another. The discovery could lead to a way to create lasers with desired colors for a range of medical, scientific, and technological applications.

Read Article



TOPTICA Acquires Azurlight Systems

TOPTICA Photonics AG has entered into a definitive agreement to acquire the majority of shares of French fiber laser technology company Azurlight Systems SAS. Azurlight will continue its fiber laser business under the name TOPTICA Photonics SAS.

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.: Featured Products & Services

771 Laser Spectrum Analyzer

Bristol Instruments Inc.

The model 771 operates as both a high-resolution spectrum analyzer and a high-accuracy wavelength meter. With spectral resolution up to 2 GHz and wavelength accuracy as high as ±0.0001 nm, this system provides the most detailed information about the spectral properties of lasers operating from 375 nm to 12 µm.

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VectorStar™ Opto-Electronic VNA

Anritsu Co.

High speed data rate testing involves photodetector and modulators that tackle a bandwidth of at least 110 GHz. The VectorStar ME7848A series ONA enables fast and accurate error-corrected transfer function, group delay, S-parameter, and optical power measurements in applications using E/O and O/E components.

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Swiss PIC Will Support Swiss Photonics Industry Read Article

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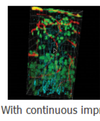
Superhydrophilic Coatings Keep Solar Cells in Peak Working Order Read Article

Nanowire-Based Detector Makes High-Speed Quantum Communication Practical Read Article

Refined Laser Systems Puts $2.9M Toward Rapid Cancer Diagnostics Read Article

.: Upcoming Webinars



Quantitative Stimulated Raman Scattering Microscopy: From Molecules to Animals

Tue, Feb 14, 2023 1:00 PM - 2:00 PM EST

Dan Fu, Ph.D., from the University of Washington highlights the capability of stimulated Raman scattering (SRS) microscopy in imaging various molecules in heterogenous samples from simple mixtures to living cells and animals. He then shares the challenges in quantitative analysis with SRS imaging due to scattering, as well as potential solutions in leveraging water as an internal standard. With continuous improvement in imaging resolution, sensitivity, and specificity, SRS is poised to play an important role in biomedical imaging.

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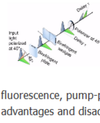

Innovations in Interferometry: Fourier Transform Spectroscopy in the Palm of Your Hand

Wed, Feb 15, 2023 10:00 AM - 11:00 AM EST

Alex Barker of NIREOS shares how a common-path visible interferometer functions, as well as the counterintuitive ways in which it differs from a dispersion-based spectrometer. In a short time, these instruments have been used for a startling variety of spectroscopic experiments, such as time-resolved fluorescence, pump-probe spectroscopy, and stimulated Raman scattering. Using these examples, Barker demonstrates the advantages and disadvantages that common-path visible interferometers provide.

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