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Picometer Resolution



.: Top Stories

Health

Single-Cell Resolution

Faculty A \$12M challenge fund has granted the Institute of Optics at the

University of Rochester Plans 50% Increase in Optics

University of Rochester the opportunity to increase its faculty by 50%. The fund, endowed by University of Rochester life trustee James C. Wyant and his wife, Tammy, will provide 60% of the \$1.5M required for a professorship and the \$2 million required for a distinguished professorship. Read Article



NASA's Human Research Program's Exploration Medical Capability team tested the Reusable Handheld Electrolyte and Laboratory

Technology for Humans (rHEALTH) ONE biomedical analyzer, a

NASA Deploys Diagnostic Equipment to Manage Astronaut

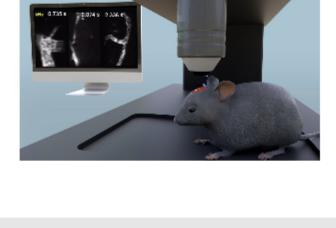
portable device that uses laser technology to diagnose illness or injury. The miniature flow cytometer detects cells and other biomarkers to assess biological changes. Read Article



A two-photon fluorescence imaging method was able to image the flow of individual blood cells at 1000 2D frames and 1,000,000 linescans per second in the brains of awake mice. The technique could

Microscopy Technique Enables In Vivo Vascular Imaging at

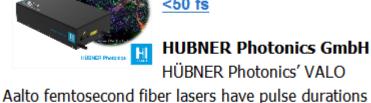
help scientists better understand how energy is distributed and regulated in both healthy and diseased brains. Read Article







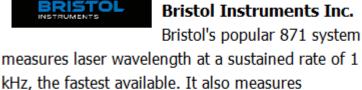
Ultrafast Fiber Lasers with <50 fs



HUBNER Photonics GmbH HÜBNER Photonics' VALO

of <50 fs and peak powers of >2 MW from compact and stable turn-key systems. The lasers have very

attractive features for applications in bioimaging, spectroscopy and micro-machining. Visit Website Request Info



results.

Bristol's popular 871 system

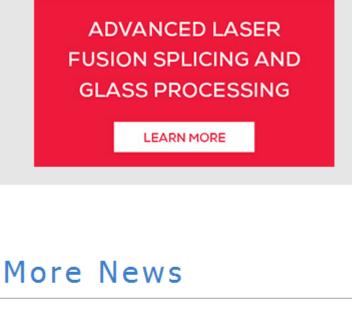
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wavelength to an accuracy as high as ± 0.0001 nm. By combining proven Fizeau etalon technology with automatic calibration, the most reliable accuracy is ensured for the most meaningful experimental

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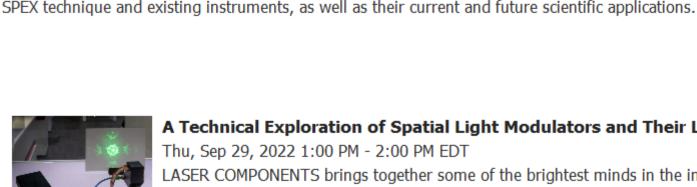
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meaning the instrument measures spectral radiance and polarization at once. This enables snapshot hyperspectral measurements with high precision and accuracy. Olivier Burggraaff discusses the physics and instrumentation behind the



A Technical Exploration of Spatial Light Modulators and Their Latest 3D Applications

Thu, Sep 29, 2022 1:00 PM - 2:00 PM EDT

technology for over 20 years and is an expert in SLMs. Presented by LASER COMPONENTS.

LASER COMPONENTS brings together some of the brightest minds in the industry for a one-hour workshop. Doctoral students Liang Shi of MIT, Praneeth Chakravarthula of Princeton University, and Manu Gopakumar of Stanford University share how they are applying spatial light modulators (SLMs) within holography, beamsplitting, and photonics projects. And Stefan Osten of HOLOEYE discusses the technical specifications of SLMs and leads an interactive Q&A session. HOLOEYE has been pioneering photonics

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