





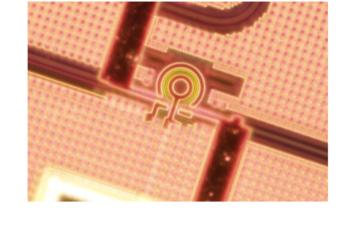
.: Top Stories

Laser Powers

Limit A team led by researchers at the University of Bristol developed a

Ring Resonator Pushes Photonic Sensing to Quantum

method for operating mass manufacturable photonic sensors at the quantum limit. The work paves the way for practical applications, including the monitoring of greenhouse gas emissions and cancer detection. Read Article



Researchers at Harvard's John A. Paulson School of Engineering and Applied Sciences (SEAS) built highly reflective mirrors that direct the

Crystal Diamond Mirrors Stand Up to Continuous-Wave

beams from high-powered continuous-wave (CW) lasers without incurring damage. The mirrors are made from single-crystal diamond. Read Article



Technology (NJUST), was awarded the 2022 Teddi C. Laurin

Yao Fan Awarded 2022 Teddi C. Laurin Scholarship

Yao Fan, a doctoral student at Nanjing University of Science and

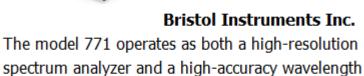
Scholarship for her contributions to the field of optics and photonics. Fan's research interests include quantitative phase imaging, computational microscopic imaging, and the development of novel microscope instruments. Read Article



Analyzer

771 Laser Spectrum

.: Featured Products & Services



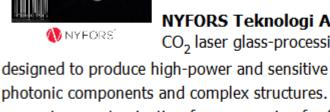
Bristol Instruments Inc. The model 771 operates as both a high-resolution

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 μ m. Visit Website Request Info

Sensors Converge

Sensing is life



NYFORS Teknologi AB CO₂ laser glass-processing is

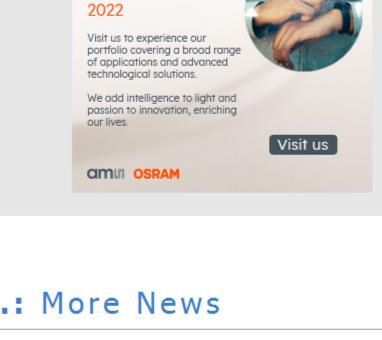
CO₂ Laser Glass-

Processing

photonic components and complex structures. It guarantees contamination-free processing for fiber

linear, 2D and gapless array splicing, ball lensing, end-capping, and many other challenging processes. Visit Website Request Info

Learn How To





Attosecond Spectroscopy Enables Observation of Ultrafast Atomic, Optical Phenomena Read Article

SERS-Based Nanosensor Detects Pesticides on Fruit Read Article

Light Beam Observation Extends Beyond Spectrum of Disorder Read Article

Interferometry Provides Basis for LWIR Remote Thermal Imaging Read Article

Reusable Light-Writing Solution Reduces Paper Waste Read Article

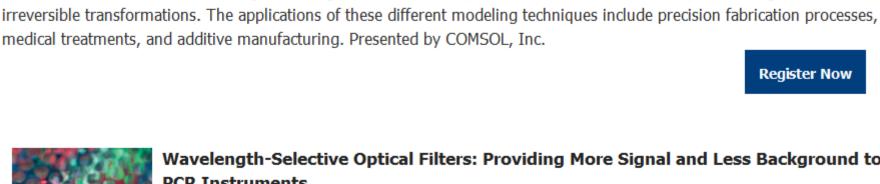


READY? STEADY. GO!!!



Northrop Grumman

sources. In addition to the modeling of heating profiles over time, this software is able to model phase change, ablation, and



medical treatments, and additive manufacturing. Presented by COMSOL, Inc.

Wavelength-Selective Optical Filters: Providing More Signal and Less Background to PCR Instruments Thu, Jul 7, 2022 1:00 PM - 2:00 PM EDT Engineers creating polymerase chain reaction (PCR) instrumentation face unique challenges in both

qualitative detection of nucleic acid sequences, using end-point analysis and quantitative detection of nucleic acid sequences, using real-time analysis. Quantitative PCR (qPCR) instruments that operate in real time require a favorable signal-to-noise ratio, combined with high sensitivity. Jason Palidwar of Iridian Spectral Technologies shares the role photonics and optical filters play in qPCR instruments along with the challenges presented by their specification, design, and manufacture.

> 🥖 semi **SEMICO**

Register Now

Register Now



ADVANCED LASER FUSION SPLICING AND GLASS PROCESSING JULY 12-14, 2022 IN-PERSON & VIRTUAL SAN FRANCISCO, CA LEARN MORE



CALL FOR ARTICLES!



word abstract to editorial@Photonics.com, or use our online submission form.



Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (Photonics Spectra, BioPhotonics, and Vision Spectra). Please submit an informal 100-



We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member

of our website, Photonics.com. You may use the links below to manage your subscriptions or contact us. Questions: info@photonics.com

Unsubscribe | Subscribe | Subscriptions | Privacy Policy | Terms and Conditions of Use