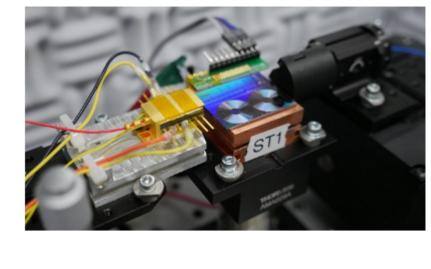


Weekly News





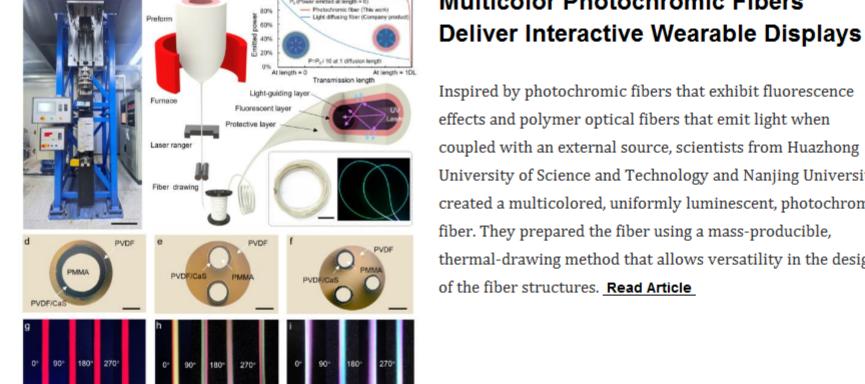
Precise Signals on Compact Chip

Researchers from the University of Colorado Boulder, the

Photonics-Based Oscillator Provides

National Institute of Standards and Technology, the NASA Jet Propulsion Laboratory, California Institute of Technology, the University of California Santa Barbara, the University of Virginia, and Yale University developed a low-noise microwave generator with a compact, portable form factor by using two-point optical frequency division, a technique for developing high-performance signal sources, with integrated

photonic components. Read Article



Inspired by photochromic fibers that exhibit fluorescence effects and polymer optical fibers that emit light when

Multicolor Photochromic Fibers

coupled with an external source, scientists from Huazhong University of Science and Technology and Nanjing University created a multicolored, uniformly luminescent, photochromic fiber. They prepared the fiber using a mass-producible, thermal-drawing method that allows versatility in the design of the fiber structures. Read Article

Light-Beads Microscopy Reveals New

To better capture and understand neural activity in mice,

professor Alipasha Vaziri and his team at The Rockefeller

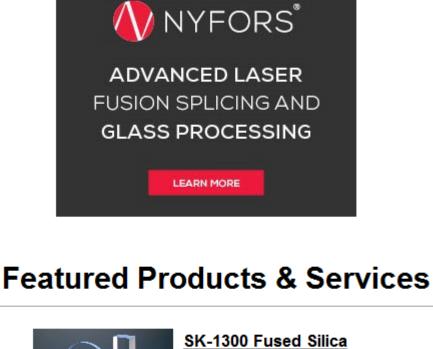
University used large-scale recordings and light-beads

Information About Brain Activity



microscopy, a volumetric, two-photon imaging technique

developed by the Vaziri lab in 2021. LBM increases imaging speed by eliminating the "dead-time" between sequential laser pulses, when no neuroactivity is recorded, and by removing **OPTICS & PHOTONICS International Exhibition**





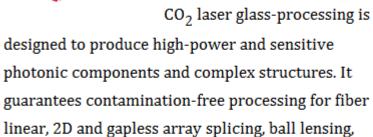
Ohara Corporation Ideal for semiconductor



Featured Video

equipment, filters, and high energy laser applications. SK-1300 Fused Silica

transmission from UV through near IR, high homogeneity, and low stress birefringence. Visit Website Request Info



🚺 NYFORS'

NYFORS Teknologi AB

end-capping, and many other challenging processes. NYFORS also manufactures automated highprecision solutions for fiber preparation, such as stripping, cleaving, recoating, and end-face inspection. NYFORS offers custom workcell automation solutions. Visit Website Request Info

Applications - Novanta

FIREFLY3D is Novanta's next generation 3-axis scan head

designed for Laser Powder Based Fusion (LPBF) machines in

additive manufacturing applications. The FIREFLY3D is an

FIREFLY3D Laser Scan Head for LPBF



enclosed, compact solution designed to increase productivity with real-time process monitoring and improved finish quality of LPBF manufactured parts.

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principal thin-film engineer at Newport. Presented by MKS Newport.

Optical Filters: Application and Design Considerations

Optical filters can discretely transmit or reject specific

wavelengths or ranges of wavelengths of light. Utilizing this

how specifications influence performance and cost. Craig

capability in photonics-based instruments creates the need for a better understanding of optical filter design considerations and

Hanson of MKS/Newport discusses the fundamental principles of optical coatings and filter types and explains the significance of filter parameters and the benefits of design review. He also explores accessory options and subsystem integration. Next

Hanson unveils Newport's unique manufacturing processes and

Tue, Apr 23, 2024 1:00 PM - 2:00 PM EDT

capabilities for custom optical filters from prototype to highvolume production. Finally, this presentation concludes with an open Q&A, for which Hanson is joined by Mark Roberts, Register Now Integrated Photonics for Quantum Computing Tue, May 28, 2024 10:00 AM - 11:00 AM EDT Realizing photonic quantum technologies, such as an optical quantum computer or a quantum communication link between distant superconducting qubits, will require the development of

novel photonic components. Monolithic silicon or silicon nitride photonic platforms are falling short with respect to the requirements of the quantum domain, and it is envisioned that a hybrid solution is needed. In this talk, Christian Haffner of IMEC

shortly discusses what hybrid solutions the silicon photonic platform can offer in terms of detectors, sources, and modulators. His primary focus lies on the electro-optical modulator covering the requirements that the quantum world enforces. He compares the classical and quantum theoretical framework, and sketches out what performance metrics a **Register Now** Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines

quantum electro-optical modulator needs to fulfill.

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