





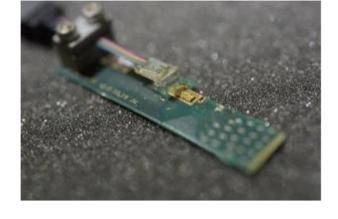
Optimizing Ultrafast Laser Micromachining. Precisely.



.: Top Stories

Integrated, High-Speed QKD Broadens Reach of Quantum Security A University of Geneva research team led by professor Hugo Zbinden

has developed a QKD system based on silicon photonics that can transmit secure keys at a speed of 2.5 GHz. The new QKD system is a potential advancement for the state-of-the-art in integrated QKD and could provide the groundwork for the implementation of QKD in everyday applications. Read Article



Digital health company STAT Health has unveiled a 24/7 in-ear

In-Ear Wearable Measures Blood Flow to the Head

wearable that uses optical sensors to measure blood flow to the head to better understand symptoms such as dizziness, brain fog, headache, fainting, and fatigue that occur upon standing. All are common symptoms for illnesses such as long COVID. Read Article

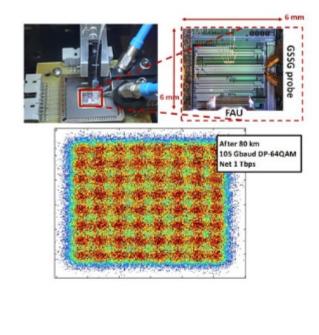


Although silicon photonics holds potential as a platform for optical transceivers, owing largely to its CMOS compatibility, the approach is

Data Traffic

Modulator Drives Record-Fast Transmission in Face of

limited in its electro-optic bandwidth. It also carries high driving voltage requirements. The qualities can hinder its use in optical communications network scaling, which is needed for the rapid growth of data traffic. Using standard chip technology and standard data encoding algorithms, researchers at McGill University and Ericsson Canada demonstrated optical communication at 105 Gbaud with net 1 Tbit/s transmission. The team designed the system using a CMOScompatible silicon photonic modulator, claiming a record data rate of 1 Tbit/s. Read Article







Powerful LED Illumination

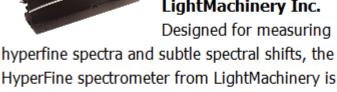
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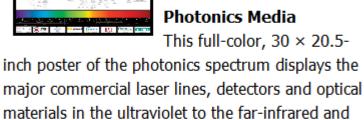
HyperFine Spectrometer

HyperFine spectrometer from LightMachinery is a compact spectrometer capable of 1 picometer

resolution. It is ideal for pulsed laser characterization and for measuring the small spectral shifts from Brillouin or Raman scattering. Request Info Visit Website



CO₂ Laser Glass-



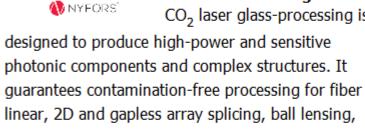
This full-color, 30×20.5 -

Photonics Media

Photonics Spectra Reference Chart

beyond. The convenient format makes it easy to quickly find the information you need. kequest Info

=DISON Edison Opto Corporation



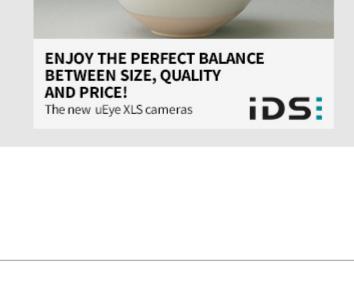
NYFORS Teknologi AB CO₂ laser glass-processing is

Processing

end-capping, and many other challenging processes.







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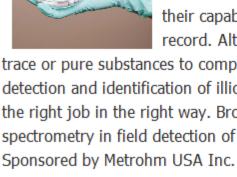


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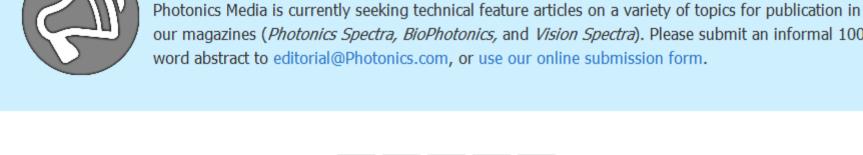
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detection and identification of illicit drugs. Ultimately, a toolbox approach is needed to ensure that the right tool is used for the right job in the right way. Brooke Kammrath and Pauline Leary highlight applications of portable spectroscopy and spectrometry in field detection of illicit drugs which both have notable effects on the delivery of improved criminal justice.

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