



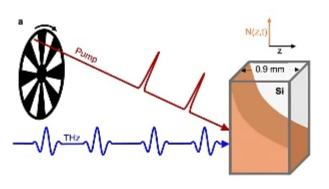


## .: Top Stories

#### Phenomena A team of researchers at the University of Ottawa developed a

Time-Resolved Spectroscopy Offers Look into Irreversible

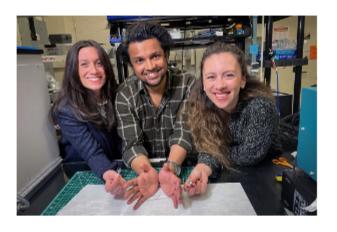
terahertz (THz) spectroscopy technique for recording movies in real time at 50,000 fps. Read Article



#### Health The brain-gut connection is known to influence hunger and mood, and it has also been associated with neurological and other disorders. To

Optogenetics Shows Relationship Between Brain and Gut

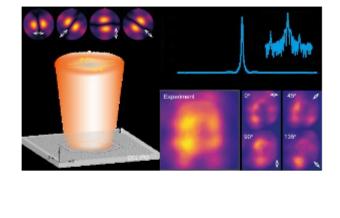
explore the signaling that occurs between these two organs, scientists at MIT integrated light sources, thermal sensors, microelectronics, and microfluidics in a device that enables stable bioelectronic interfaces with the brain and gastrointestinal tract in mice. Read Article



### A team at Nanyang Technological University (NTU) developed an

Compact, Single-Mode THz QCLs Get Boost from BICs

electrically pumped, topological, bulk quantum cascade laser (QCL) that operates in the terahertz (THz) frequency range. The THz QCL is governed by a mechanism known as bound states in the continuum (BICs). BICs are waves that remain localized even though they coexist with a continuous spectrum of radiating waves that can carry energy away. BICs can confine light with a theoretically infinite Q factor, which can improve light-matter interaction. Read Article







### Aperture Filter Coatings to

Minimize Optical Scatter

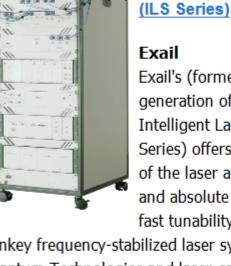


and Weight for Spacecraft Deposition Sciences Inc. (DSI)

### DSI offers patterned aperture coatings in the VIS, NIR, SWIR and MWIR for use in

optical systems looking to manage scattering or reduce the number of components to manage system weight. Picture frames, chopper patterns, multispectral sectors are all possible. Visit Website Request Info

Optical Filters for Sensing



#### Exail Exail's (formerly iXblue) new

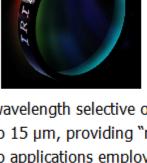
Intelligent Laser Systems

# generation of agile and

Intelligent Laser Systems (ILS Series) offers a precise control of the laser amplitude, phase, and absolute frequency with fast tunability. They are turnkey frequency-stabilized laser systems for Quantum Technologies and laser-cooled atoms.

Visit Website Request Info

CODE V & LightTools **Optical Design Software** 



Iridian Spectral Technologies Iridian designs and

and Imaging

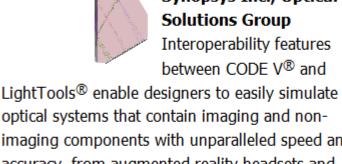
#### wavelength selective optical filters between 300 nm to 15 µm, providing "more signal, less background" to applications employing remote sensing,

manufactures custom

lidar, machine vision, M/LWIR gas detection. Visit Website Request Info

detection, and imaging such as Earth observation,

=DIS@N Edison Opto Corporation



Solutions Group Interoperability features

Synopsys Inc., Optical

optical systems that contain imaging and nonimaging components with unparalleled speed and accuracy, from augmented reality headsets and head-up displays to smartphone optics and electro-

between CODE V® and

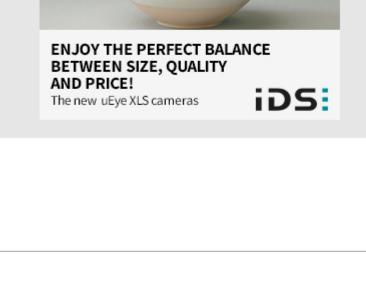
optical systems. Visit Website Request Info





Intel Sells Minority Stake in IMS Nanofabrication Read Article

Northrop Grumman SYNOPTICS



# Metalenz Partners with UMC for Metasurface Optics Market Launch Read Article

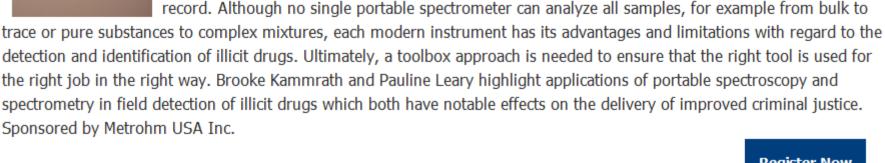
Graph-Based Photonic Device Holds Key for Quantum Applications Read Article

Autonomous Inspection Firm Percepto Raises \$67M in Series C Funding Read Article





CALL FOR ARTICLES!



#### 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.

Register Now







Questions: info@photonics.com

Reproduction in whole or in part without permission is prohibited.

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.