





Picometer Resolution

Powered by Virtually Imaged Phase Arrays (VIPAs), LightMachinery's HyperFine spectrometers offer single shot, picometer resolution laser spectrum analysis.



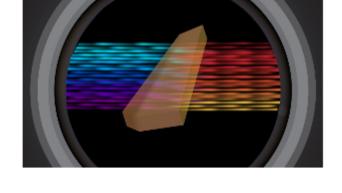
.: Top Stories

Bottleneck

Connectivity

Miniaturized Frequency Converters Support Ultrasmall Optical Circuit Chips Researchers from Columbia University and Politecnico di Milano used

an atomically thin material to build microscopic color converters. The advancement is a first step toward replacing the standard materials used in today's tunable lasers, which are measured in millimeters and centimeters. Read Article

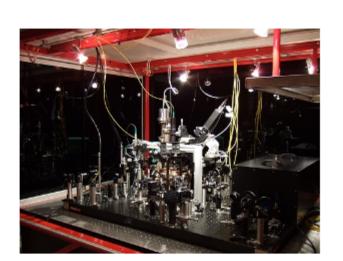


method that could facilitate the construction of powerful and robust quantum computers, as well as the secure transmission of data. The

Fourteen Entangled Photons Expel a Quantum Computing

Physicists at the Max Planck Institute of Quantum Optics developed a

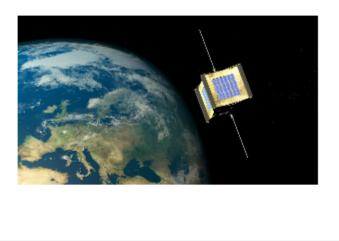
physicists generated up to 14 entangled photons, in an optical resonator, which could be prepared into specific quantum physical states in a targeted and efficient manner. Read Article



A German consortium composed of Q.ANT, Bosch, TRUMPF, and the German Aerospace Center (DLR) plans to use quantum technology to

Quantum Sensors for Satellite Control Enable High-Speed

permanently enhance satellite measurement stability. The partners will develop space-qualified attitude sensors in a project will improve internet access, particularly in remote regions. Read Article



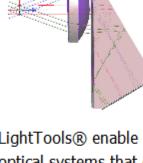




HyperFine Brillouin

Spectrometer

CODE V & LightTools Optical Design Software



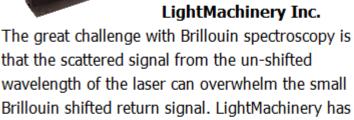
Synopsys Inc., Optical Solutions Group

Interoperability features

between CODE V® and LightTools® enable designers to easily simulate optical systems that contain imaging and non-

accuracy, from augmented reality headsets and head-up displays to smartphone optics and electrooptical systems. Visit Website Request Info

imaging components with unparalleled speed and



combined its leading-edge HyperFine spectrometer with a very narrow band tunable filter to suppress the bright un-shifted laser frequency. Visit Website Request Info



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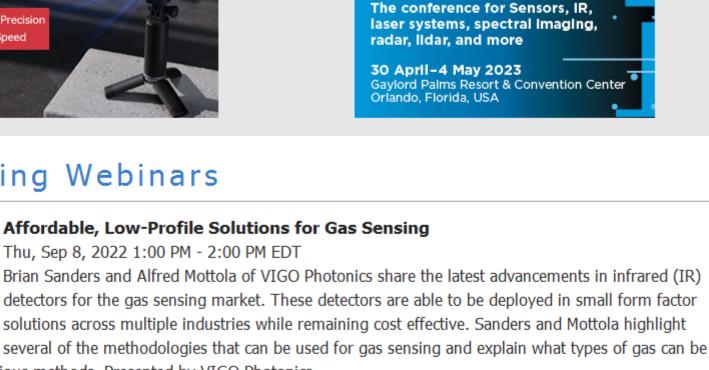
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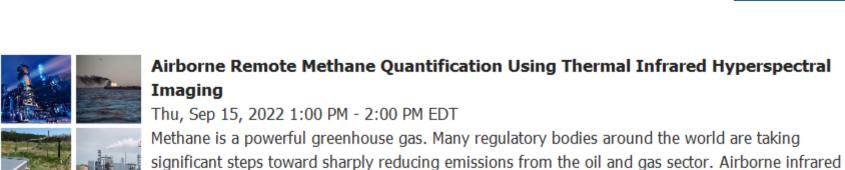




COMMERCIAL

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detected using the various methods. Presented by VIGO Photonics.



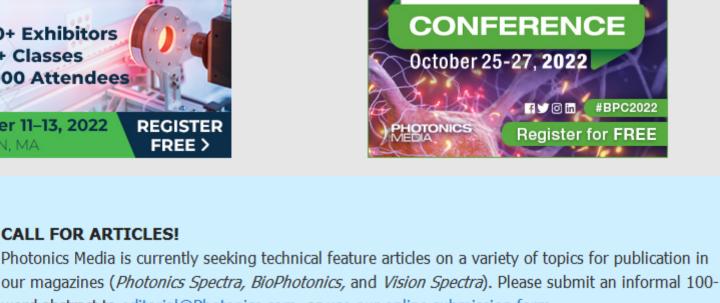
Airborne Remote Methane Quantification Using Thermal Infrared Hyperspectral Imaging

environmental conditions and industrial contexts. Benjamin Saute of Telops, shares on the capabilities of airborne-based methane emission detection systems were recently demonstrated in a measurement campaign composed of multiple controlled releases with methane flow rates. This test showed that infrared hyperspectral imaging is a highly efficient and sensitive tool for the detection and quantification of methane leaks. Register Now

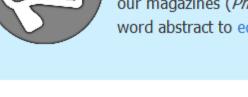
hyperspectral imaging can visualize and quantify these emissions and gas leaks under various

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