

This Week in PHOTONICS

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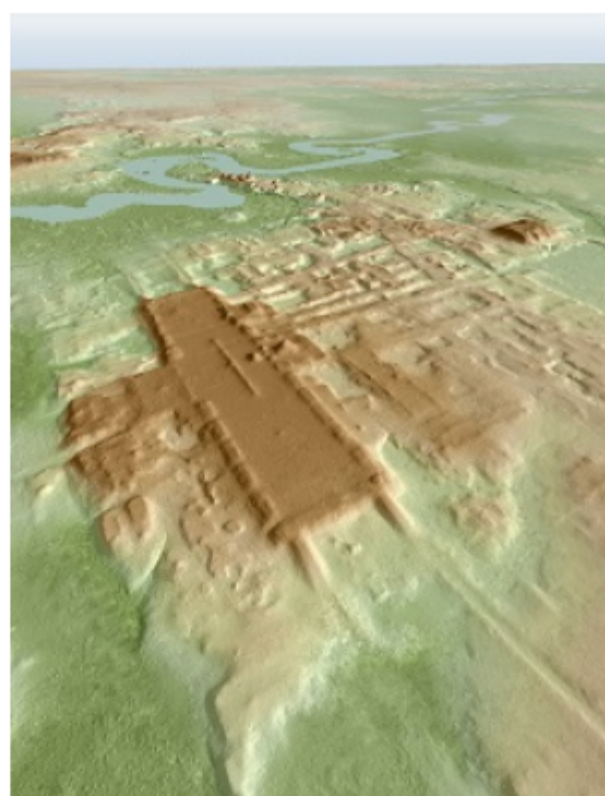
Hyperfine Spectrometer
A sub-picometer resolution spectrometer in a compact package.

Top Stories

Lidar Technology Reveals Historic Mayan Site

A team of researchers led by archaeologists from the University of Arizona has used a laser mapping system from the air to uncover the buried ruins of an ancient Mayan site. After determining that an area in Tabasco in the southeast part of Mexico was worthy of further study, the researchers zeroed in on a particular location with lidar.

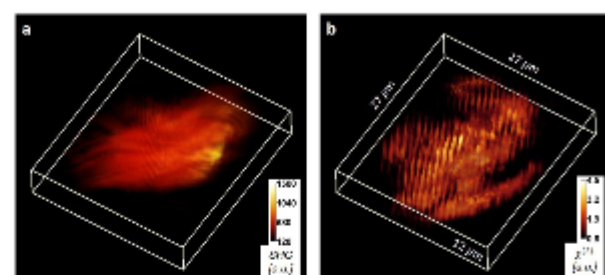
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Harmonic Optical Tomography Can Image Nonhomogenous Samples in 3D

Harmonic optical tomography (HOT) is a new technique for imaging microscopic, nonlinear, and inhomogeneous objects. It uses holographic information to generate 3D images of the sample. It is the result of a collaboration between researchers at the University of Illinois at Urbana-Champaign's Beckman Institute for Advanced Science and Technology and Colorado State University.

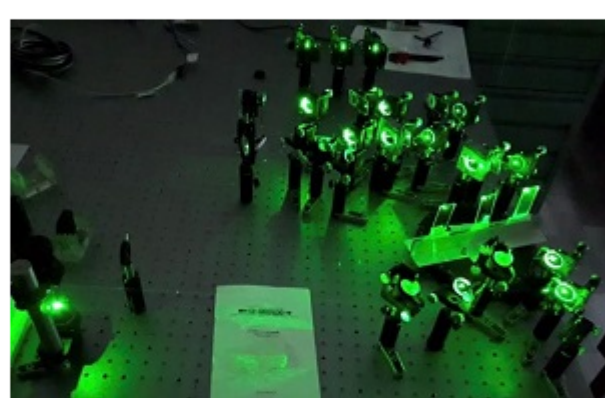
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Physicists Develop Quantum-Inspired Optical Sensor

Researchers from the Moscow Institute of Physics and Technology, joined by a colleague from Argonne National Laboratory, have implemented an advanced quantum algorithm for measuring physical quantities using simple optical tools. The technology could allow for affordable linear optical sensors with high-performance characteristics, with applications in diverse research fields such as astronomy and biology.

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Featured Products



Tetra CMOS Line Scan Image Sensors

Teledyne e2v (UK) Ltd.

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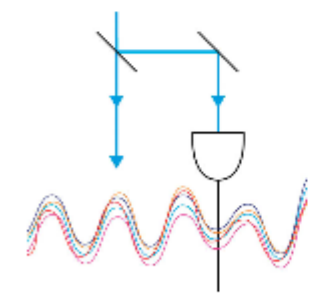
[Portable Virus Disinfection Within Reach](#)

[Scientists Demonstrate 310-nm Nanolaser in VIS Range at Room Temperature](#)

[Self-Driving Cars That Recognize Free Space Can Better Detect Objects](#)

[Societies Announce 2020-2021 Congressional Science and Engineering Fellows](#)

Upcoming Webinars

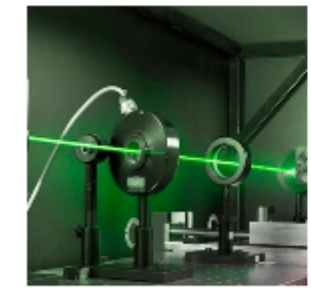


Optimize the Signal Acquisition for Optics and Photonics Measurements

Tue, Jun 23, 2020 11:00 AM - 12:00 PM EDT

This webinar will focus on four optical measurement techniques: tunable diode laser absorption spectroscopy; pump-probe spectroscopy; stimulated Raman scattering microscopy; and carrier-envelope offset stabilization. By taking a close look at these techniques, you will learn how to choose the most suitable measurement scheme, for example, lock-in amplifier or boxcar averager; perform a measurement; and tune your measurement settings to maximize the signal-to-noise ratio.

[Register Now](#)



Principles of Laser Power/Energy Measurement

Wed, Jun 24, 2020 12:00 PM - 1:00 PM EDT

In this webinar, you'll learn how laser power and energy measurement work. The presenter will clearly define the various beam parameters and look at the technologies typically used for measuring each of them. You will see how these are implemented in various types of instruments and develop an understanding of what type of equipment is best for what type of measurement.

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