







Hyperfine Spectrometer

A sub-picometer resolution spectrometer in a compact package.

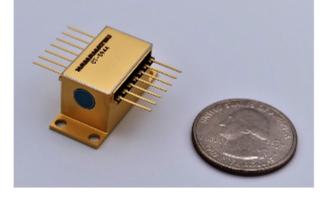
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Before They Occur

Portability of All-Optical Gas Analyzer Hamamatsu Photonics and the National Institute of Advanced

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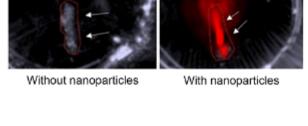
Industrial Science and Technology (AIST) in Tokyo collaborated on an all-optical, portable gas monitoring system for predicting volcanic eruptions with a high degree of sensitivity. Read Article



Researchers at Michigan State University (MSU) used light-activated nanoparticles and photoimaging to locate and image cells found in the

Photoacoustic Effect Can Detect Life-Threatening Events

arteries. Such cells could lead to heart attacks and strokes. The advance relies on carbon nanotubes that selectively target the types of immune cells that are abundant in inflammatory plaques. Read Article

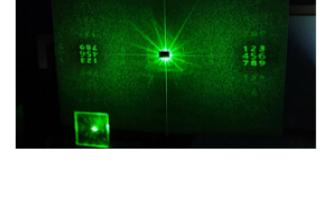


Dissuade, Detect Forgers Forgeries could become next to impossible with a two-level encrypted holographic security device, built by researchers at Pohang University

Photonic Security System Uses Hologram Platform to

of Science and Technology (POSTECH). The platform for the technology is a bifunctional, pixelated metasurface that allows several properties of light, including wavelength, phase, and polarization, to be controlled by the same device. Read Article





HyperFine Brillouin

Spectrometer

Stabilizing the Line of Sight

.: Featured Products



In Stabilizing the Line of

Sight, authors Peter J. and

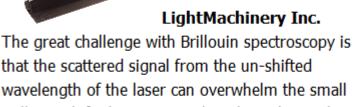
Photonics Media

Rhonda L. Kennedy provide a methodology and an example for executing a successful end-to-end line-of-sight (LOS) design. Comprehensive in scope, this book will give readers

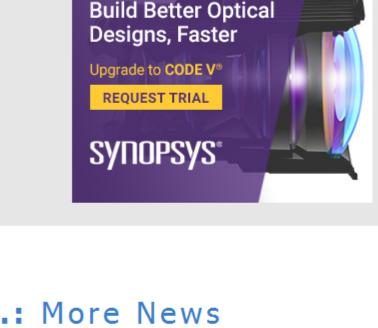
the various engineering disciplines that are required for successful LOS control. Request Info Visit Website

a better understanding of the relationships between

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Brillouin shifted return signal. LightMachinery has 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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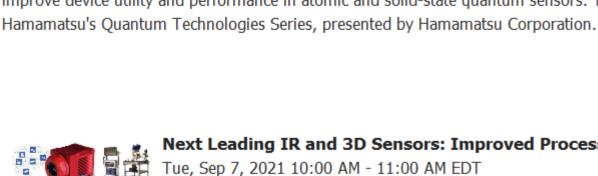


Sensors Converge

Design Innovation

Meets Tech

in diamond. Choy also presents the critical developments in optical engineering and material science that are needed to improve device utility and performance in atomic and solid-state quantum sensors. This webinar is the fourth presentation in



Next Leading IR and 3D Sensors: Improved Process and Quality Control for IoT Tue, Sep 7, 2021 10:00 AM - 11:00 AM EDT Technology in the field of infrared cameras and 3D sensor technology requires more and more innovation, flexibility and user-friendliness. AT - Automation Technology has designed its portfolio around these parameters and offers customized solutions that can be individually adapted to any

application. In this webinar, Guido Deutz of AT showcases that portfolio and how it is delivering

precise, highly accurate, and reliable results in machine vision. Presented by AT - Automation Technology GmbH.

nitride photonics applies to solving today's challenges and future applications.

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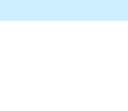


Wed, Sep 8, 2021 1:00 PM - 2:00 PM EDT In this webinar, Philippe Babin, CEO of AEPONYX, discusses silicon nitride photonics' advantages and

Silicon Nitride Photonics with MEMS: Enabling New Sensing and Filtering Systems

capabilities and takes a systems-thinking approach to product success. He will also discuss how silicon

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