

This Week in PHOTONICS

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LightMachinery
Excellence in Lasers and Optics



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

Top Stories

Optical Technology Covers Soldiers on Battlefield

Military personnel have sophisticated technology at their fingertips in combat, and thanks to a federally funded research program, they may soon also have optical technologies ranging from wearable sensors to point-of-care imaging devices to help diagnose and treat their wounds.

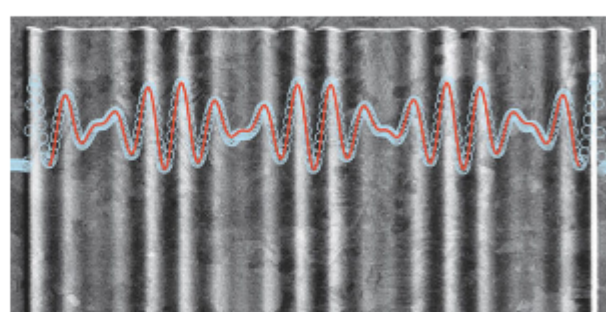
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ETH Team Leads Way to More Precise Diffraction Gratings

An ETH Zürich team, working with colleagues at Utrecht University and Heidelberg Instruments Nano, has found a way to achieve more efficient diffraction gratings. To make their gratings, the researchers produced wavy surfaces with nanometer precision.

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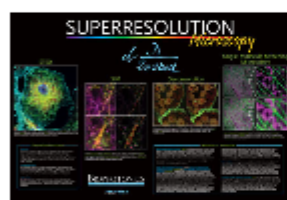
Integrated Platform for Visible-Light Chip Could Further Miniaturization

To support the miniaturization of optical devices and components, a scientific team led by researchers at ITMO University has devised a quick, affordable method to make visible-light nanophotonic chips.

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Featured Products



Superresolution Microscopy Poster

Photonics Media
With interest in the

superresolution microscopy field growing rapidly, the editors of BioPhotonics magazine — in collaboration with acknowledged experts — created a poster with readers in mind that is suitable for lab, classroom and office. It features visually stunning, high-resolution images that reveal never-before-seen worlds...

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HyperFine Brillouin Spectrometer

LightMachinery Inc.

The great challenge with Brillouin spectroscopy is that the scattered signal from the un-shifted wavelength of the laser can overwhelm the small 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.

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More News

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[Single-Photon Technology Could Allow High-Sensitivity, Low-Power OCT](#) [Read Article](#)

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Upcoming Webinars



Radiometric Accuracy and Commercial UAVs: A Clash of Cultures?

Tue, Jul 7, 2020 1:00 PM - 2:00 PM EDT

Data used to infer crop stress and related properties have traditionally been collected by highly accurate electro-optical systems aboard satellites, and validated using other calibrated sensors imaging the same territory. Radiometric calibration methods in the commercial UAV industry have developed differently, often sheltered within the industry's ecosystem. When accuracy counts, do commercial UAVs make the grade? Come join this webinar with Barbara Grant, founder of Grant Drone Solutions LLC, for an overview of relevant issues, and suggestions for the way forward.

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