

This Week in PHOTONICS



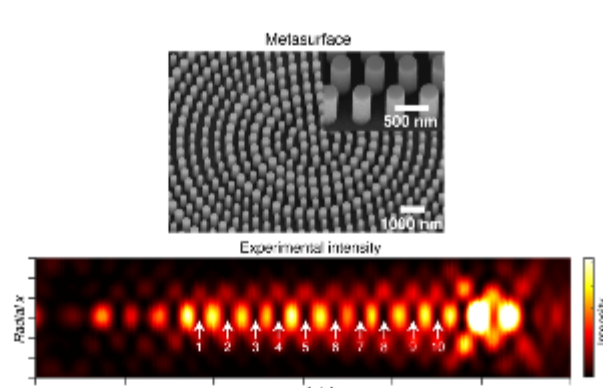
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Top Stories

Metasurfaces Exert Control Over Darkness

Researchers led by Federico Capasso at Harvard John A. Paulson School of Engineering and Applied Sciences have developed methods to exert control over points of darkness, rather than light, using metasurfaces.

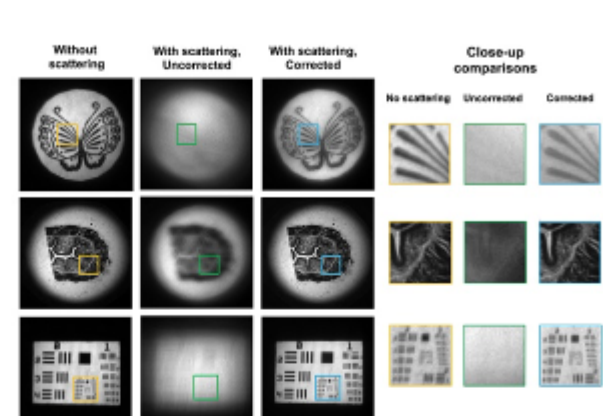
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Video Tech Enables Imaging Through Scattering Media

Researchers from Rice University and University of Maryland have created full-motion video technology that could enable cameras to peer through fog, smoke, driving rain, murky water, skin, bone, and other media that reflect scattered light and obscure objects from view.

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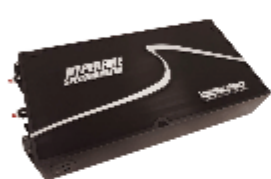
Optically Addressed Spintronics Eliminates Need for Magnetic Fields

Electron spins could become more efficient and easier to manage through a light-based approach using halide perovskite semiconductors. Research teams at Harvard's Rowland Institute and the University of Cambridge observed ultrafast spin-domain formation in polycrystalline halide perovskite thin films in response to irradiating the films with circularly polarized light at room temperature.

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[HyperFine Spectrometer](#)

LightMachinery Inc.

Designed for measuring hyperfine spectra and subtle spectral shifts, the HyperFine spectrometer from LightMachinery is a compact spectrometer capable of 1 picometer resolution. It is ideal for pulsed laser characterization and for measuring the small spectral shifts from Brillouin or Raman scattering.

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[Celestial AI Raises \\$100M in Series B](#)

Upcoming Webinars



Confronting the Drug Epidemic with Portable Spectroscopy

Thu, Jul 6, 2023 1:00 PM - 2:00 PM EDT

Portable spectrometers have the potential to be a powerful tool for combatting the modern illicit drug trade in the field. The most significant advantage of portable spectrometers over other field tests is their capability to provide confirmatory analysis, which is rapid, reliable, and creates a reviewable record. Although no single portable spectrometer can analyze all samples, for example from bulk to trace or pure substances to complex mixtures, each modern instrument has its advantages and limitations with regard to the detection and identification of illicit drugs. Ultimately, a toolbox approach is needed to ensure that the right tool is used for 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. Sponsored by Metrohm USA Inc.

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