

This Week in PHOTONICS



LightMachinery
Excellence in Lasers and Optics



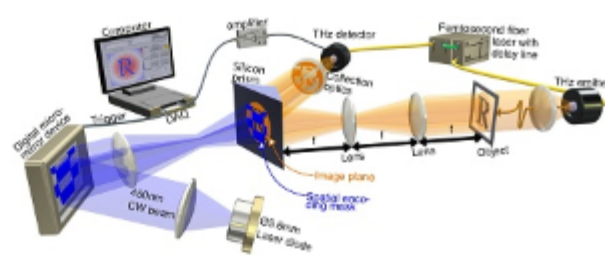
Hyperfine Spectrometer
A sub-picometer resolution spectrometer in a compact package.

Top Stories

T-Ray Camera Speed Boosted a Hundredfold

An international research team led by professor Emma Pickwell-MacPherson from the University of Warwick has reached a crucial milestone toward developing single-pixel terahertz imaging technology for use in biomedical and industrial applications.

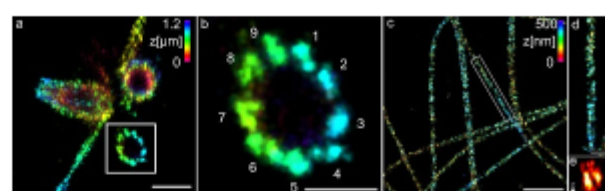
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Limitations of Superresolution Microscopy Overcome

An international team of researchers has combined superresolution microscopy method dSTORM with expansion microscopy to overcome a previous limitation of superresolution microscopy.

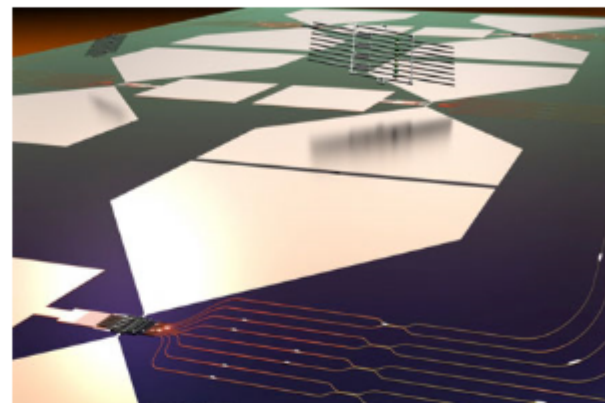
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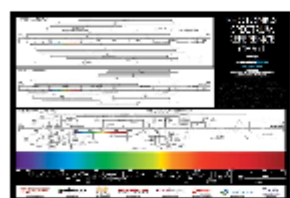
Hybrid Process Integrates PIC with Artificial Atoms to Scale Up Quantum Chip

MIT researchers have developed a way to manufacture and integrate artificial atoms with photonic circuitry to produce a quantum chip that could be used for large-scale quantum systems. Using a hybrid approach, they built what they believe to be the largest integrated artificial-atom photonics chip yet.

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Featured Products



[Photonic Spectrum Reference Chart](#)

Photonic Media
This full-color, 30 x 20.5-inch poster of the photonics spectrum displays the major commercial laser lines, detectors and optical materials in the ultraviolet to the far-infrared and beyond. The chart was updated in 2018 to reflect the changing technologies in the photonics industry.

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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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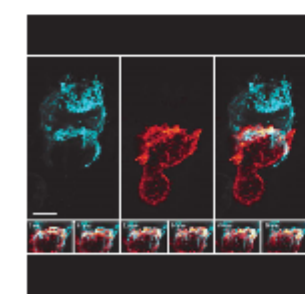
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Upcoming Webinars



An Oblique Plane Light-Sheet Microscope with 200-nm-Scale Resolution

In this webinar, UT Southwestern professor Kevin Dean will describe an oblique plane microscope that uses a newly developed glass-tipped objective and an optimized optical train to maximize the speed, field of view, and resolution of the overall imaging system. He will characterize the performance of this microscope, and then demonstrate biological imaging of clathrin-mediated endocytosis, cell migration, natural killer cell induced cytotoxicity, and more. This webinar is sponsored by Applied Scientific Instrumentation; Andor Technology, part of the Oxford Instruments Group; TOPTICA Photonics; and Coherent Inc.

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