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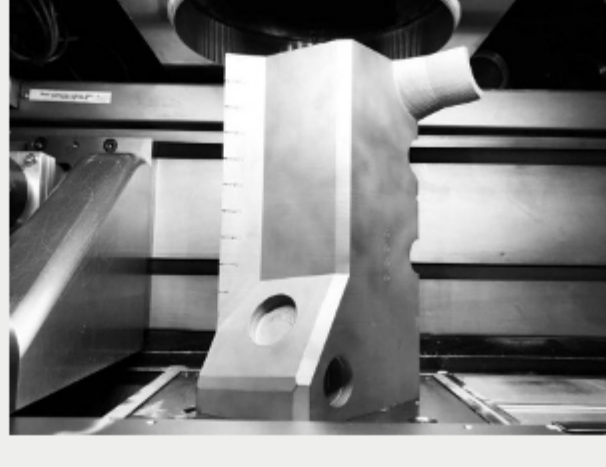
The HyperFine Spectrometer, Brillouin spectroscopy.
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Top Stories

3D Printed Metals Can Be Both Strong and Ductile

A joint research team developed the technique to 3D-print metals — involving a widely used stainless steel — and achieved exceptional levels of both strength and ductility when compared to counterparts from more conventional processes.



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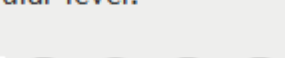


Optical Probes Allow Ultrafast, High-Resolution Imaging of Dopamine Activity

Fluorescent sensors that optically record dopamine activity in the brains of behaving mice could help facilitate the discovery of therapeutics for depression and addiction. The technology precisely captures where and when dopamine activity occurs in the mouse brain within milliseconds and at the cellular level.

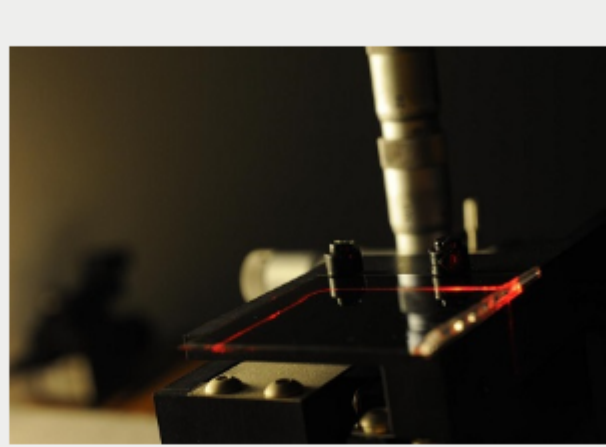


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Creating Precision Optical Components with Inkjet Printing

Researchers have developed an inkjet printing technique that can be used to print optical components, such as waveguides. The printing approach can also fabricate electronics and microfluidics. The researchers discovered that depositing the ink in two steps, rather than the traditional single step, enabled printing of lines with a specific height and with much smoother features than traditional techniques.

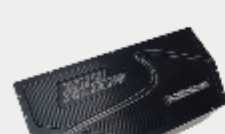


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Featured Products

The HyperFine Spectrometer



LightMachinery Inc.
Designed for measuring hyperfine spectra and subtle spectral shifts, the HyperFine spectrometer from

LightMachinery is a compact, low cost spectrometer capable of sub-picometer resolution. It is ideal for pulsed laser characterization and for measuring the small spectral shifts from Brillouin scattering.

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New Vision App-based IDS NXT Vegas Model

IDS Imaging Development Systems GmbH

IDS has expanded its product range of vision app-based industrial cameras. A color sensor model of IDS NXT vegas has joined the product family. German camera manufacturer IDS has also introduced a new firmware and a new cockpit to the market, which offer additional features and simplify the handling even further.

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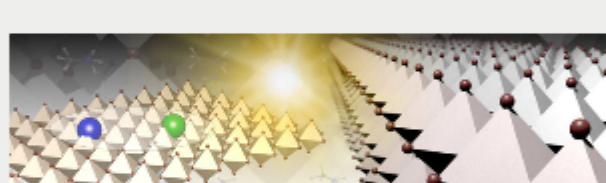
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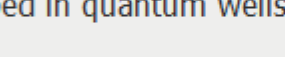
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Researchers Devise Exciton Scaling Rule for Optoelectronics Design

Scientists have created a scale by which labs can determine the binding energy of excitons, and thus their bandgap structures, in perovskite quantum wells of any thickness. The findings were based on a study of excitons trapped in quantum wells made of halide perovskite.

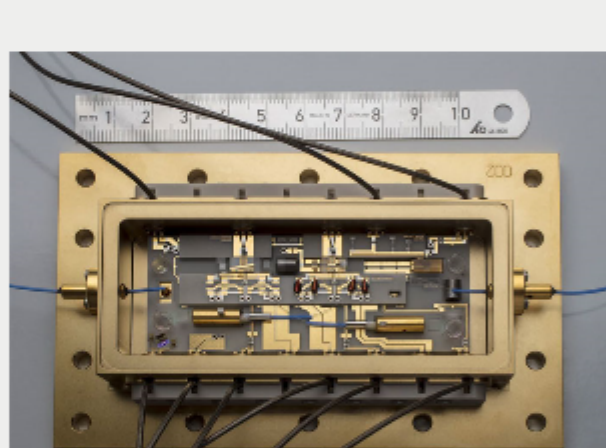


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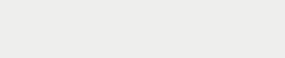


Frequency-Stable Laser System for Space Could Be Used for Optical Satellite Navigation

Scientists report that an active optical frequency reference based on molecular iodine was successfully tested for the first time in space. Results of the JOKARUS experiment (German acronym for iodine comb resonator under weightlessness) could be a step toward laser interferometric distance measurements between satellites, and future global navigation satellite systems based on optical technologies.



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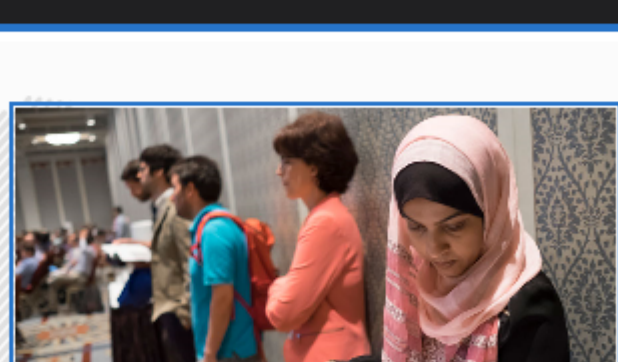
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Industry Events

Advanced Photonics Congress 2018

July 2-5, 2018 - ETH Zurich - Zurich Switzerland
The OSA Advanced Photonics Congress, comprised of eight topical meetings, will address the many aspects of photonic device research and development and their use in networks. Participating meetings will include: Bragg Gratings, Photosensitivity, and Poling in Glass Waveguides and Materials; Integrated Photonics Research, Silicon, and Nanophotonics; Nonlinear Photonics; Novel Optical Materials and Applications; Optical Sensors; Photonic Networks and Devices; Signal Processing in Photonic Communications; and Specialty Optical Fibers. Image courtesy of OSA, The Optical Society.



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