

This Week in PHOTONICS



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Excellence in Lasers and Optics



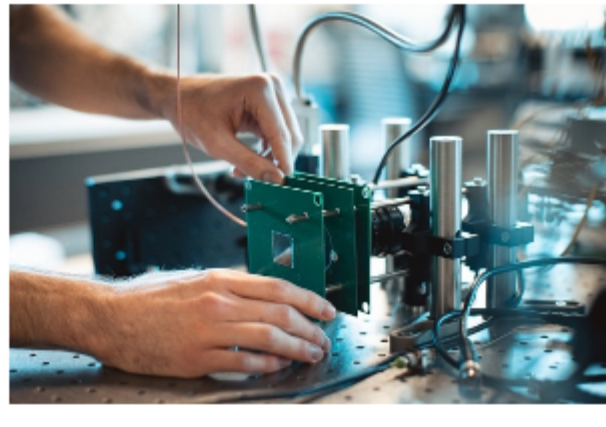
Hyperfine Spectrometer
A sub-picometer resolution spectrometer in a compact package.

:: Top Stories

Modulator Enables Simple Cameras to Capture Images in 3D

A team at Stanford University has developed a device that enables lidar functionality with ordinary CMOS image sensors. The device makes it possible to obtain 3D data from technology that, on its own, is capable of seeing only in two dimensions.

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Light and Fluorescent Dye-Based Device Prevents Tooth Decay

An optical device in development at the University of Washington could help prevent tooth decay by identifying at-risk teeth before cavities start to develop. The prototype, called O-pH, uses a low-power light system and an FDA-approved fluorescent dye solution to noninvasively measure oral biofilm acidity on tooth enamel and provide quantitative feedback.

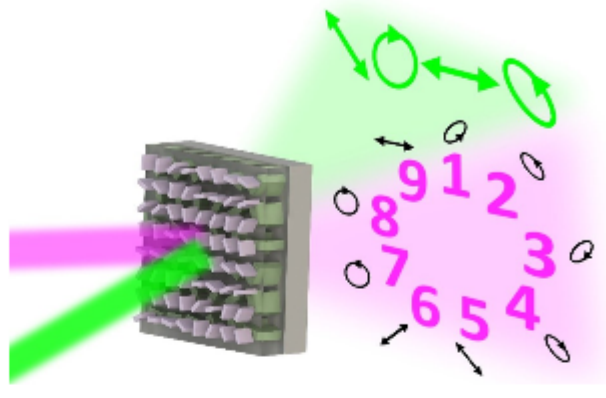
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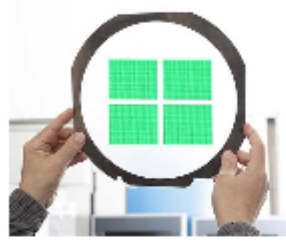
Metasurface and UV and Visible Light System Conquer Counterfeits

Researchers at Pohang University of Science and Technology developed an anticounterfeiting and tampering prevention system using ultraviolet (UV) and visible light. The technology uses metasurfaces and is expected to have applications in various industrial sectors.

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:: Featured Products



Optical Filters for Point of Care

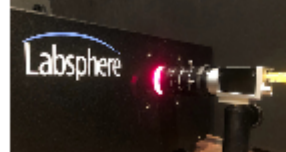
Delta Optical Thin Film A/S

Point of Care (PoC)

instruments have various uses in medical diagnostics, including the detection of infectious diseases such as Covid-19. These types of tests only require a single drop of blood, saliva, or urine and can be performed by a GP within minutes. Many tests require absorbance or fluorescence detection methods, which all demand optical filters. The optical filter is one of the most important components of a PoC instrument. It is used to attenuate unwanted light...

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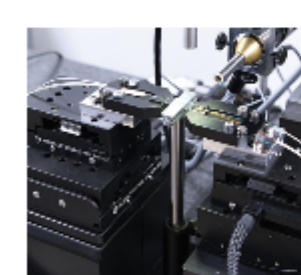


Adopting Deep Learning in Machine Vision: Scaling to Enterprise-Level Solutions

Wed, Apr 20, 2022 1:00 PM - 2:00 PM EDT

Enterprise-level manufacturing customers looking to leverage the power of deep learning and artificial intelligence to solve their quality inspection applications have unique needs. Quinn Killough of Landing AI offers best-in-class solutions for automated inspection applications. These solutions include efficient data collection and model generation across global production networks, as well as how to communicate and deploy these systems in companies across diverse populations that include subject matter experts, quality managers, and system engineers. Presented by Landing AI.

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Achieving Ultralow-Loss Photonics Array Alignment

Tue, Apr 26, 2022 1:00 PM - 2:00 PM EDT

Two- and three-dimensional photonics are commonly used for coupling light in photonic integrated circuits. With the increasing demand for ultralow-loss transmission in applications such as datacom, artificial intelligence (AI), virtual reality (VR), and quantum computing, the need for fast and precise alignment of photonic arrays to other devices is critical. Darrell Paul presents current industry challenges and limitations as well as automation solutions for achieving ultralow-loss photonics alignment. Presented by Aerotech.

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:: All Things Photonics

UCLA researcher **Mona Jarrahi** breaks down critical achievements in the terahertz domain, with particular focus on terahertz optoelectronics. Biomedical, plasmonic, and imaging applications are explored, as are commercial pursuits. In advance of the inaugural *Photonics Spectra* Spectroscopy Conference April 12-13, **Richard Crocombe**, principal at Crocombe Spectroscopy Consulting, and **Ellen Miseo**, president of the Coblentz Society, introduce listeners to the event program and individual sessions.

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