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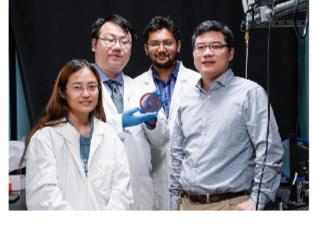


.: Top Stories

Researchers at Penn State have developed a metalens that is large

Large-Aperture Metalens Images Lunar Surface

enough to be put into a telescope, and used the optic to image the moon's surface. The metalens, which the researchers used to create a metalens telecscope instrument, works in the near-infrared range with nearly diffraction-limited focal spot sizes and a high peak focusing efficiency of 80.84% at 1450 nm experimentally. Read Article



technology by applying compressed sensing — a method that enables differentiation of slight color differences and enables the improvement

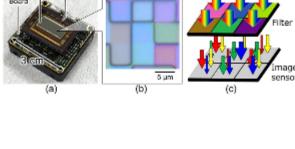
Panasonic Boosts Hyperspectral Sensitivity with

Researchers from Panasonic have developed hyperspectral imaging

Compressed Sensing

of image analysis and recognition accuracy. With the development, the company has achieved what it said is the world's highest sensitivity in hyperspectral imaging technology. Read Article

With the continued miniaturization of electronic and photonic devices,



tools to examine the behavior of free electrons, simultaneously at the picosecond-time and nanometer-length scales, have become necessary.

Method Achieves Nanoscopic Measure of Electron

Dynamics in Semiconductor Materials

Now, A method developed by researchers at the University of California, Berkeley is poised to allow more effective measurement of these electrons, opening paths to better energy efficiency. The researchers developed what they described as a new type of optical nanoscopy to measure electron dynamics in semiconductors. Read Article



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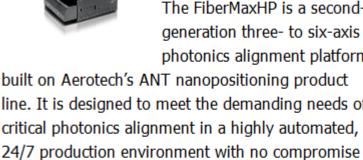
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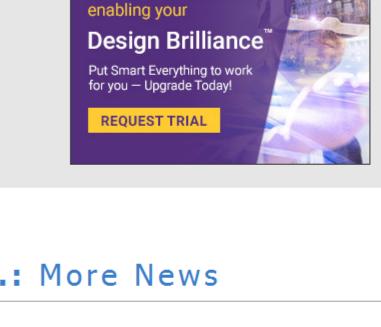
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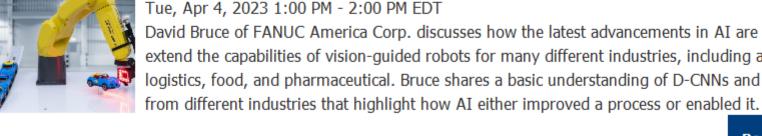
GLASS PROCESSING

Researchers Create Single-Photon Emitters in Place Read Article





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David Bruce of FANUC America Corp. discusses how the latest advancements in AI are helping to extend the capabilities of vision-guided robots for many different industries, including automotive, logistics, food, and pharmaceutical. Bruce shares a basic understanding of D-CNNs and examples

AI for Vision-Guided Robotics

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Listen Now

Rohit Bhargava, director of the Cancer Center at Illinois, follows his Photonics West 2023 Optical Biopsy Conference keynote with a discussion on increased utility in infrared spectroscopic imaging. Discussion points include the advent of the quantum cascade laser, the

Plan to participate





our magazines (Photonics Spectra, BioPhotonics, and Vision Spectra). Please submit an informal 100-

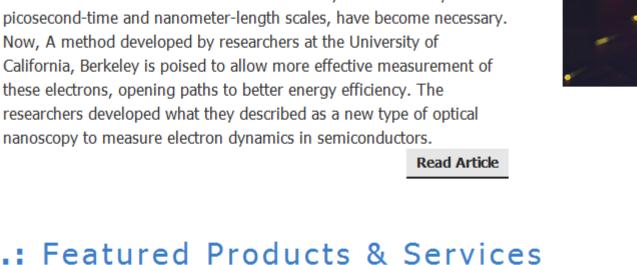
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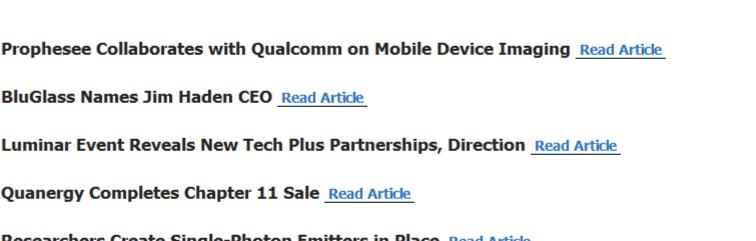
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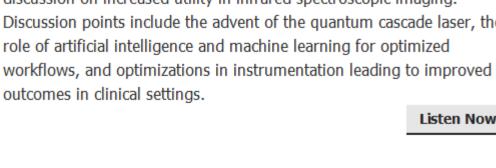




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