







Hyperfine Spectrometer

spectrometer in a compact package.

A sub-picometer resolution

Electronics

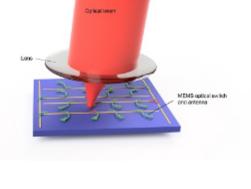
Data

.: Top Stories

More A research team led by professor Ming Wu at the University of

Chip-Based Lidar Packs the Pixels for Use in Vehicles and

California, Berkeley is developing a high-resolution, chip-based lidar system that could be used in a range of devices, from autonomous cars to smartphones. The researchers used a focal plane switch array (FPSA) with MEMS switches to pack 16,384 pixels onto a single chip. Read Article

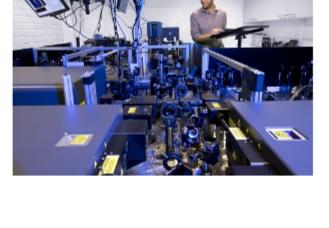


Researchers at Swinburne University of Technology used an advanced spectroscopy technique to quantify the energy required to bind two excitons into a biexciton state. The team directly measured the

Spectroscopy Deems Biexciton Binding Energy Usable in

biexciton binding energy in tungsten disulfide a 2D material that belongs to the transition metal dichalcogenide (TMDC) family of semiconductors. The findings could be used to develop applications based on the flow of biexcitons in TMDCs. Read Article

Efficient, Nano-Size Optical Computer Crunches Complex



(CUNY) and Heedong Goh at the Advanced Science Research Center at the CUNY Graduate Center (CUNY ASRC) developed a design for a

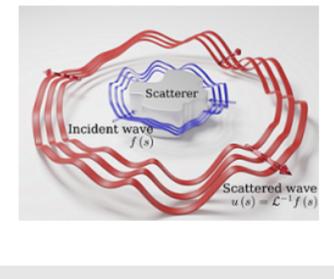
A research team led by Andrea Alù at the City University of New York

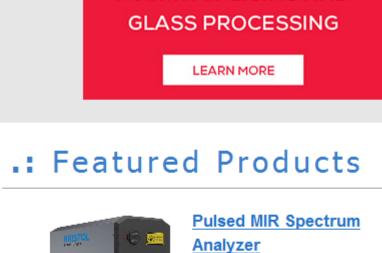
nano-size, wave-based computer that solves advanced mathematical computations at the speed of light. **Read Article**

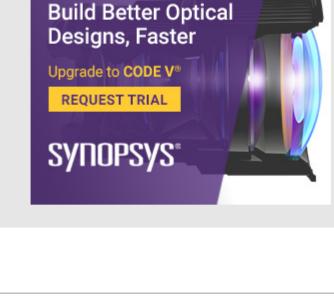
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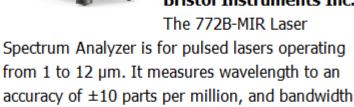






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Bristol Instruments Inc. The 772B-MIR Laser



Spectrum Analyzer is for pulsed lasers operating from 1 to 12 µm. It measures wavelength to an

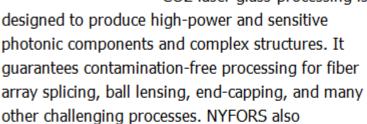
GHz, providing the ideal solution for scientists and engineers who need to know the spectral properties of their pulsed mid-IR lasers. Visit Website Request Info

and longitudinal mode structure to a resolution of 4

<u>Superresolution</u>

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Photonics Media With interest in the



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CO2 laser glass-processing is

manufactures automated high-precision solutions for fiber preparation, such as stripping, cleaving, recoating, and end-face analyzing. NYFORS offers custom workcell automation solutions. Visit Website Request Info

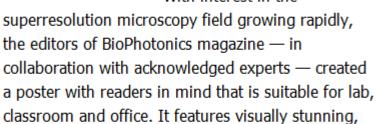
Optical designers are often tasked with correcting

more aberrations and using fewer surfaces for

compact applications ranging from medical

Software Synopsys Inc., Optical

CODE V Optical Design



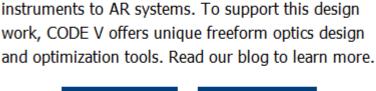
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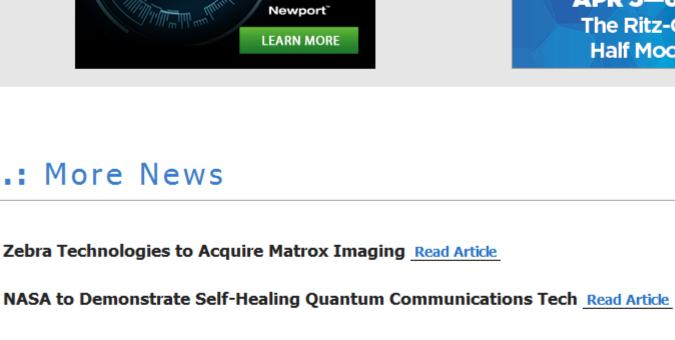


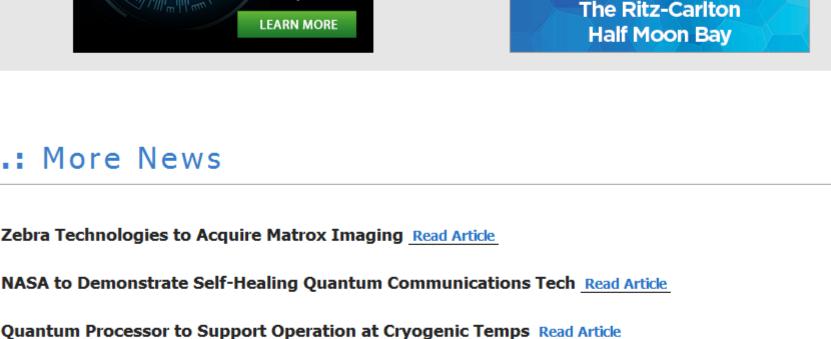
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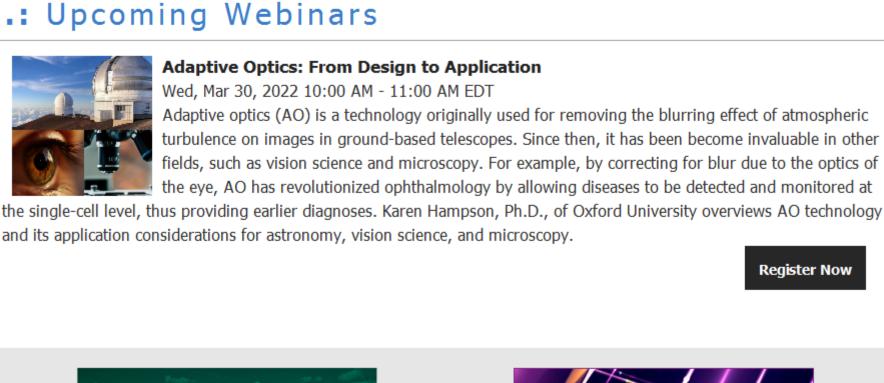
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radar, lidar, and more

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Orlando, Florida, USA

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OPTICS & PHOTONICS International Exhibition

Adaptive optics (AO) is a technology originally used for removing the blurring effect of atmospheric turbulence on images in ground-based telescopes. Since then, it has been become invaluable in other fields, such as vision science and microscopy. For example, by correcting for blur due to the optics of the eye, AO has revolutionized ophthalmology by allowing diseases to be detected and monitored at Register Now

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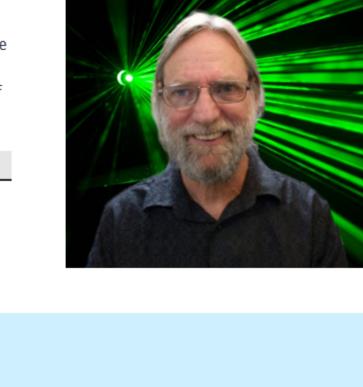


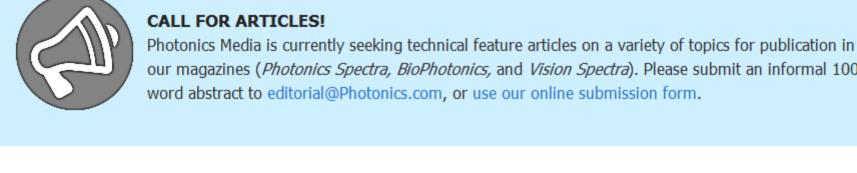
20-22 April 2022 PACIFICO YOKOHAMA, Japan

Lasers & Holograms," on now in Tempe, Ariz. Hess is a career holographer and photonics technician, and his collection features more than 500 lasers and upward of 600 holograms. Also, a check-in with the University of Southampton's **Pearl John** to discuss the artform of holography and its ties to photonics outreach and education. Listen Now

Bob Hess, one of the world's leading collectors of lasers, laser

accessories, and holograms, takes us through his exhibit, "Vintage





our magazines (Photonics Spectra, BioPhotonics, and Vision Spectra). Please submit an informal 100word abstract to editorial@Photonics.com, or use our online submission form.







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