



Weekly News



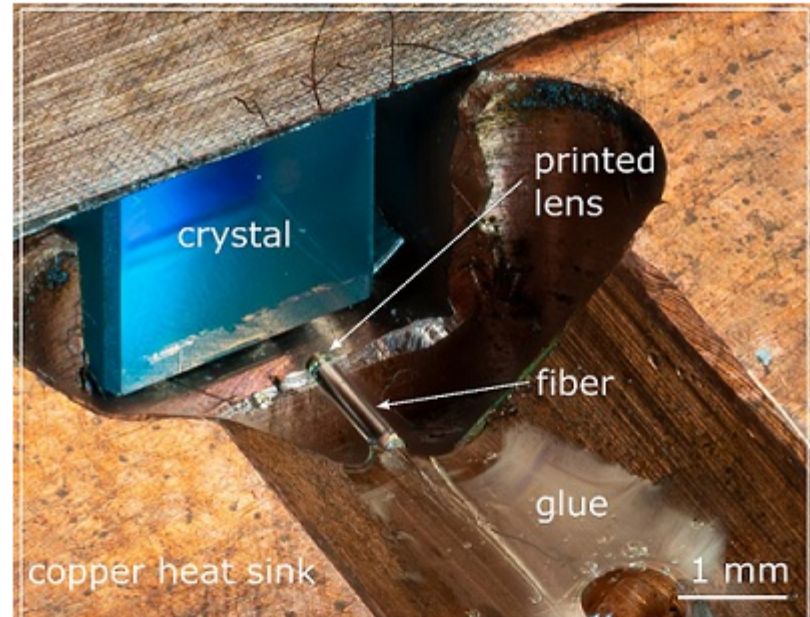
Shortwave Infra, Broadband Spectrum Solution Provider
State-of-the-Art of Customized Service and Simulation **WANT A QUOTE?**



Laser Technology Battles Brain Damage by Assessing TBIs at Point of Care

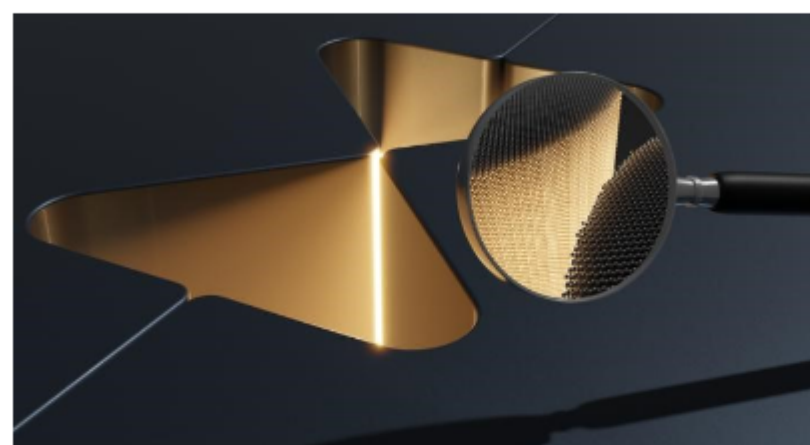
The decisions made about patient care in the hour following a traumatic brain injury (TBI) are critical to patient outcome. To enable timely intervention, researchers at the University of Birmingham are developing a portable noninvasive diagnostic to quickly measure the extent of cerebral injury. The device uses Raman spectroscopy and fundus imaging of the

neuroretina to rapidly acquire a molecular footprint of the TBI biochemistry. [Read Article](#)



Researchers Create Stable Hybrid Laser by 3D Printing Micro-Optics onto Fibers

Researchers have shown that 3D-printed polymer-based micro-optics can withstand the heat and power levels that occur inside a laser. The advancement enables inexpensive compact and stable laser sources that would be useful in a variety of applications, including the lidar systems used for autonomous vehicles. [Read Article](#)

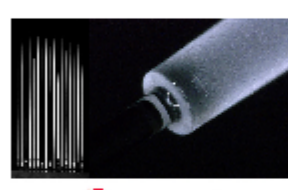


Self-Assembled Resonator for Optical Chips Confines Light at Atomic Scale

Optical resonators increase the strength of light-matter interaction by storing light over a long period of time. The smaller the resonator, the tighter the confinement of light will be, resulting in an even stronger interaction. To create a resonator that provides strong light-matter interaction at a very small scale, researchers at the Technical University of

Denmark built self-assembled, bowtie optical resonators at the atomic scale and embedded the self-assembled cavities in a larger architecture consisting of self-assembled waveguides, springs, and photonic couplers. [Read Article](#)

Featured Products & Services



CO₂ Laser Glass-Processing

NYFORS Teknolog AB
CO₂ laser glass-processing is designed to produce high-power and sensitive photonic components and complex structures. It guarantees contamination-free processing for fiber linear, 2D and gapless array splicing, ball lensing, end-capping, and many other challenging processes.

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HyperFine Spectrometer

LightMachinery Inc.

Designed for measuring hyperfine spectra and subtle spectral shifts, the HyperFine spectrometer from LightMachinery is a compact spectrometer capable of 1 picometer resolution. It is ideal for pulsed laser characterization and for measuring the small spectral shifts from Brillouin or Raman scattering.

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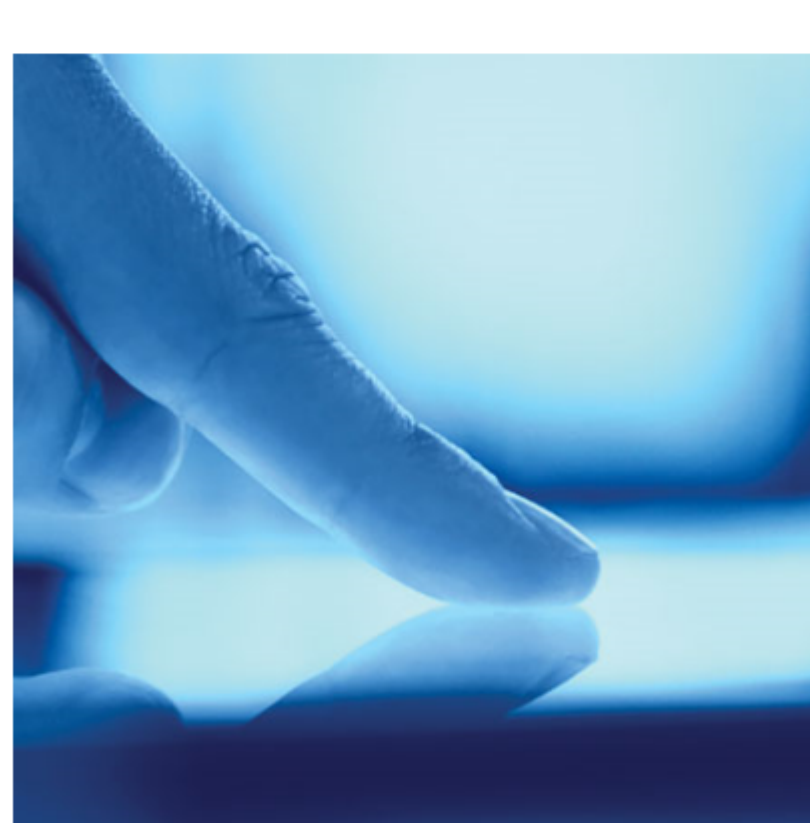
[OLEDs Gain Efficiency and Lower Costs Using Transition Metal Complex](#)

[Flow Cytometry Uncovers Predictive Biomarker for Severe COVID](#)

[Two-Photon Holographic Mesoscope Probes Activity Across Large Brain Regions](#)

[New Photon Sieves Enable NASA Heliophysics Studies](#)

Latest Webinars



Laser Application for Display Manufacturing

Tue, Jan 16, 2024 10:00 AM - 11:00 AM EST

Displays are windows into the connected world as nearly every consumer device today has a display and a smartphone without one is impossible to imagine. To produce state-of-the-art displays lasers must be utilized, especially to create high-end and high-resolution designs. Dr. Oliver Haupt from Coherent focuses on OLED displays for smart phones as well as the adoption of OLED displays in the IT sector. He also addresses the incremental market opportunity for MicroLED displays from the very small range in AR to the very large 4K TV market. Finally, he explains how over the last few years more and more UV short wavelengths lasers have been required and implemented in production due to the display material combinations, increase of active display areas, and pixel sizes down to the micron level.

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