





Picometer Resolution

Powered by Virtually Imaged Phase Arrays (VIPAs), LightMachinery's HyperFine spectrometers offer single shot, picometer resolution laser spectrum analysis.



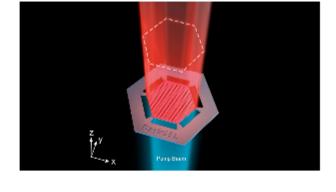
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Single-Mode Semiconductor Laser Exhibits High Power, Scalability

A semiconductor laser developed by University of California, Berkeley (UC Berkeley) researchers accomplishes an elusive goal in the field of optics: the ability to maintain a single mode of emitted light while maintaining the ability to scale up in size and power. The work shows that size does not have to come at the expense of coherence, enabling lasers to be more powerful and to cover longer distances for many applications.



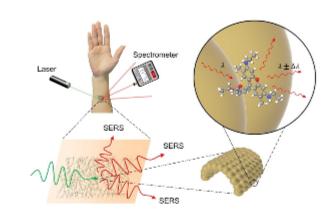
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Analysis An ultrathin sensor spun from gold can be attached directly to the skin

Wearable Sensor Uses Raman Spectroscopy for Chemical

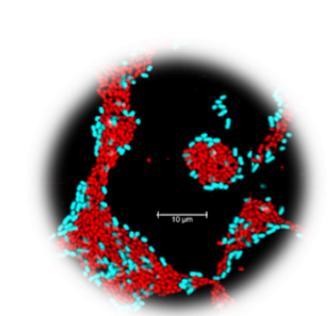
without irritation or discomfort. Developed by researchers at the University of Tokyo, the sensor is enabled by Raman spectroscopy and can measure different biomarkers or substances to perform on-body chemical analysis. Read Article



Identity An imaging platform for investigating microbiomes in medical and

High-Throughput Imaging Links Microbial Metabolism to

environmental samples can perform high-throughput metabolism and identity analyses with single-cell resolution. Called SRS-FISH, or stimulated Raman scattering (SRS) two-photon fluorescence in situ hybridization (FISH), the technique combines the advantages of SRS for single-cell stable isotope probing with two-photon FISH for identifying cells quickly and with a high level of sensitivity. Read Article



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LightMachinery Inc.

Spectrometer

HyperFine Brillouin

The great challenge with Brillouin spectroscopy is

wavelength of the laser can overwhelm the small Brillouin shifted return signal. LightMachinery has combined its leading-edge HyperFine spectrometer with a very narrow band tunable filter to suppress the bright un-shifted laser frequency. Visit Website Request Info

that the scattered signal from the un-shifted



MKS/Newport

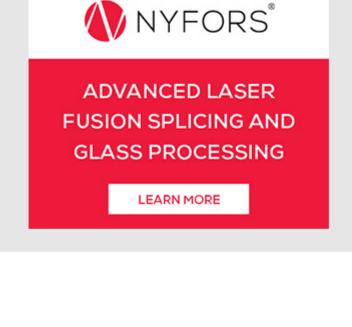
High-Power Laser Diode

Drivers

Drivers are designed specifically for controlling and

testing high-power laser diodes and VCSEL arrays. They are CW/QCW laser diode drivers with current ranges from 40A to 220A QCW and 18A to 125A CW with maximum compliance voltages from 12V to 35V. The QCW mode offers driving... Visit Website Request Info





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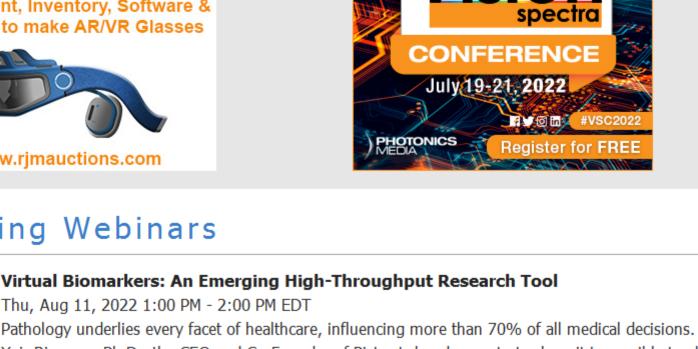
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Yair Rivenson Ph.D., the CEO and Co-Founder of Pictor Labs, demonstrates how it is possible to alter



process is enabled by a machine learning-based virtual staining technology which allows fully digital and virtual multiplex tissue platforms to substantively improve the quality and quantity of pathology samples. He will also

discuss additional benefits of the technology. Register Now

the centuries old practice of histopathology with a digitized process in a non-destructive fashion. The



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