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Spectroscopy

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Spectroscopy Aids Disease Detection, Faces Obstacles



Despite hurdles beyond the research realm, spectroscopy is advancing disease detection and treatment.

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Quantum Cascade Lasers: Where They Are and Where They're Going

QCLs are carving a clearer niche in photonics applications, namely in defense and security, medical diagnostics, atmospheric gas sensing and mid-infrared imaging.





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A Glowing Way to Monitor Forest Health

A faint glow emitted from plants during photosynthesis could be key to measuring the health of large areas of forests and croplands in real time. The glow can be detected by spectrometers aboard orbiting satellites.

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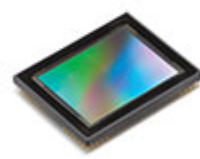
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Featured Products

 <p>Fluorescence-Free Chemical Analyzer</p> <p>BaySpec, Inc. BaySpec's Agility™ Raman spectrometer delivers high sensitivity and repeatability in an affordable, ruggedized, battery-operated turn-key package.</p> <p style="color: purple;">More info >></p>	 <p>Admesy Hera Series Spectrometer</p> <p>Admesy BV The Admesy Hera series spectrometer is a highly accurate, compact and robust spectrometer suitable for a broad range of measurements.</p> <p style="color: purple;">More info >></p>
 <p>Laser Wavelength Meter</p> <p>Bristol Instruments The best way to determine the absolute wavelength of CW lasers is with the 621 Series Laser Wavelength Meter from Bristol Instruments.</p> <p style="color: purple;">More info >></p>	 <p>Automated 3D Raman Imaging</p> <p>WITec GmbH The WITec apyrion is an automated confocal Raman microscopy system developed to overcome the boundary between ease-of-use and ultimate capability in 3D Raman Imaging.</p> <p style="color: purple;">More info >></p>





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Laser Design Brings Attosecond Spectroscopy Closer

The field of ultrafast physics focuses on phenomena such as electron motions in molecules and atoms, which can take place on attosecond timescales. The ability to generate attosecond laser pulses would effectively permit electron motions to be "photographed."





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Graphene Confines Light for Nanomolecular Sensing

Widely used for detecting larger molecules, IR absorption spectroscopy has been ineffective for detecting nanoscale molecules like proteins because mid-infrared wavelengths, around 6 μm, are much larger than the objects to be detected. This difference in scale can be overcome with graphene, which exhibits light confinement two orders of magnitude higher than other metals.

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