Lasers Tech Pulse

PHOTONICS MEDIA
THE PULSE OF THE INDUSTRY

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Diode Lasers Break into New Wavelengths, New Applications

New wavelengths, new production technologies and microassembly are all expected to help extend the reach of diode lasers in the future.

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Had a few too many? A laser is waiting for you.

An intelligent laser system can detect alcohol vapors in moving cars even before an officer has pulled over the vehicle.

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Mid-IR Semiconductor Lasers Enable Sensors for Trace-Gas-Sensing Applications

Commercial and research QCL sources can target strong fundamental rotational-vibrational gas absorption lines in the mid-IR spectral range and pure rotational lines in the terahertz range that are one to two orders of magnitude stronger than overtone transitions in the NIR.

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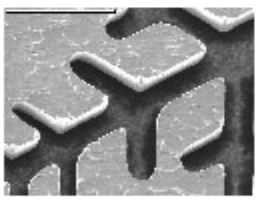
Lasers Power Improved Materials Processing



No matter the material, manufacturing fine features can often be improved with the use of sufficiently short pulses. A look at several examples shows how lasers are enabling advanced materials processing, although challenges remain.

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Laser Mirror Counteracts Deformation

When photons push against mirrors inside laser cavities, the mirrors get deformed. But scientists now have a way to push back.

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Diamond Enhances Laser Beams

A team from Macquarie University's Photonics Research Center has discovered how to increase the quality of high-power laser beams by exploiting the optics of an 8-mm diamond.

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