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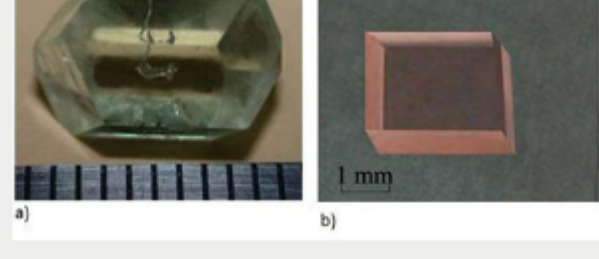
International Trade Fair
for Laser Material Processing

May 31 – June 02, 2016 Messe Stuttgart

Top Stories

Novel Crystal Growth Method Enables Eye-Safe Laser

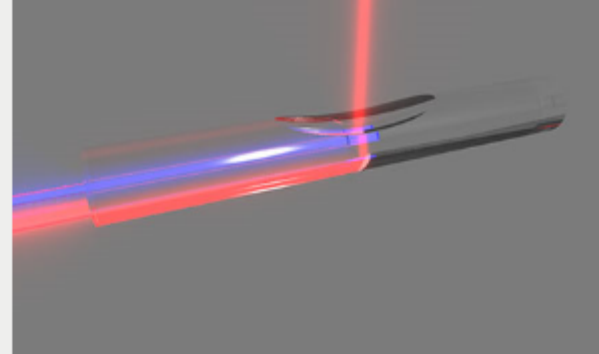
A compact, eye-safe laser light source has been developed for practical applications in medicine, communications and ranging. The solid-state laser emits in the 1500- to 1600-nm range, and is based on a novel laboratory growth technology for single crystals.



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Optoacoustic Sensor Promises More Reliable Cardiological Diagnostics

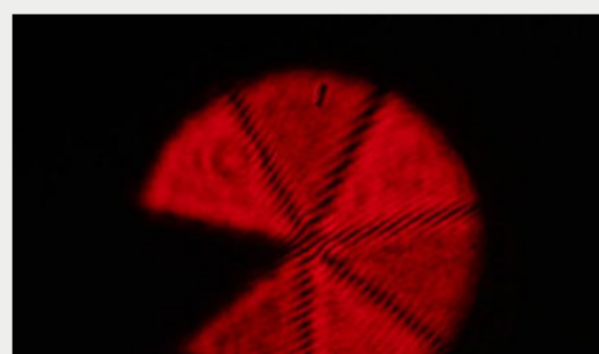
A technique based on optical interferometry could enable ultrasonic methods to be used internally to gather information about the heart tissue. Until now ultrasonic methods have only been used externally, because the piezo electrical components necessary for internal use have not been sufficiently miniaturized to be inserted into the blood vessels.



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Twisted Light Characterization Technique Seeks to Advance Quantum Communications

Fully understanding "twisted" light may enable its use in quantum communication applications, and an experimental technique has yielded the first characterization of the azimuthal Wigner distribution of a photon.



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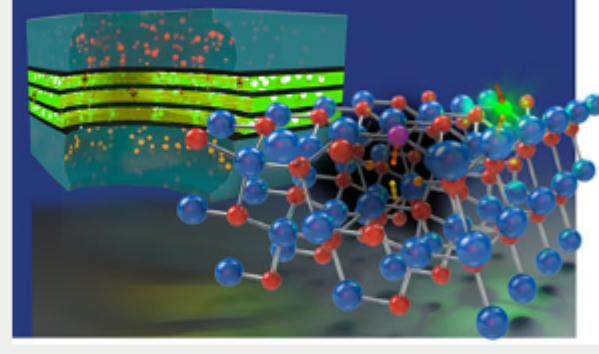
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Theoretical Technique Identifies Defects in LED Materials

The discovery and characterization of a specific type of defect in the atomic structure of an LED that results in less efficient performance could enable fabrication of even more efficient, longer-lasting light sources. Improving the internal quantum efficiency of such LEDs is a vital step for developing and proliferating optoelectronic devices.



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Plessey, PhytoLux Sign Horticultural Lighting Agreement

Plessey Semiconductors Ltd. have signed a global exclusive license agreement to manufacture and sell PhytoLux Ltd.'s horticultural lighting solutions.



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Featured Video

OSA Centennial - Arti Agrawal, University of Rochester

The Optical Society members share their reflections on 100 years of optics innovation, what inspired their interest in the field and how OSA has impacted their career.

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Webinars

Cellular Bioluminescence Imaging of Circadian Clocks

April 26, 2016 12:00P EDT
This presentation reviews how bioluminescence imaging differs from fluorescence imaging, its application to the study of circadian rhythms in single cells, and ways to optimize bioluminescence imaging of single cells. The presenters also provide guidance on choosing appropriate detector technology for target applications.

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Commercializing Photonics Technology

April 28, 2016 1:00P EDT
This presentation outlines an approach to move advanced photonics technology into successful commercial products. It will discuss current and future areas for investor funding and help you identify market opportunities and develop a roadmap for successful commercialization. For anyone involved with technology development as well as business development opportunities in the photonics area.

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