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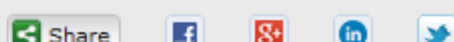
Thursday, October 1, 2015

Broadband Laser Aimed at Cancer Detection



Covering a wide swath of the mid-infrared, a new system offers greater spectral sensitivity.

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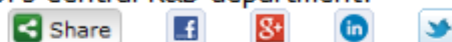
FEATURED VIDEO



Laser Beam Products – Manufacturer of Metal Mirrors
Managing Director Mark Wilkinson discusses the materials and coatings used in all metal mirrors.

Trumpf Subsidiary, Braun Institute Seek Greater Laser Diode Efficiency
"We're attempting to look 10 years ahead here, and to lay the foundations for future applications," said Dr. Berthold Schmidt, head of Trumpf's central R&D department.

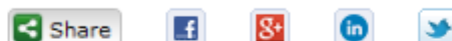
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Rudolph Technologies Acquires Wafer-Inspection Technology

The technology enables identification of residue-related defects, which can have a significant impact on interconnect quality but are not visible with current inspection techniques.

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Pigtail Emitters

Marktech Optoelectronics Marktech Optoelectronics Inc. offers a series of pigtail emitters, offering high reliability in a hermetically sealed metal can package for demanding applications.

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Dynamic Laser Interferometer

4D Technology Corp. The PhaseCam® 6000 is an extremely compact and lightweight laser interferometer for measurement of optics and optical systems.

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Unmanned Vehicle Optics

Meller Optics, Inc. Custom fabricated sapphire, germanium, ZnS, silicon and zinc selenide optics for use in gimbaled systems and front surface protection in unmanned air- and undersea vehicles are available from Meller Optics.

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Fiber Sensors Improve Robot Touch Sensitivity



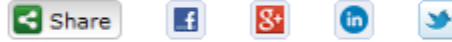
Fiber optic sensors could give robots the sensitivity needed to handle delicate objects and work safely alongside humans.

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Following Bankruptcy Application, Alphaform to be Acquired by Proto Labs
Proto Labs said the move will expand its additive manufacturing capabilities in Europe by adding selective laser sintering, direct metal laser sintering and additional stereolithography processes to its business.

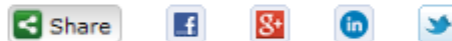
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Tissue Scaffolding Made from Laser-Patterned Silk

Hydrogels made of silk protein have emerged as a promising platform for tissue engineering thanks to their transparency, which allows laser patterning deep below the material's surface.

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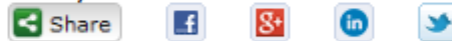


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Optical Memory Chip Uses Phase-Change Material

The first demonstration of a stable nanoscale optical memory chip could allow storage and retrieval of data without the latency inherent in electronic systems.

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'Rectenna' Works at Optical Frequencies



Rectennas that function at wavelengths of more than 10 μm have been demonstrated as early as the 1960s, but comparatively shorter wavelengths have made it impossible to translate the technology to visible light until now.

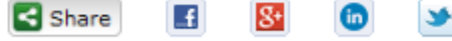
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Detector Seeks Better LED Photometry Results

A photometric device could improve the relative uncertainty in measuring the luminous efficacy of LEDs from approximately 5 percent today to 1 percent in the future.

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