This Week In







Call for Nominations! Beacons of the Photonics Industry

business communities to optics and photonics through their work in five categories. Please submit a separate entry for each Beacon you wish to nominate.

Beacons are the photonics industry's luminaries who are guiding the scientific and

Deadline for submissions is July 1, 2016. The results of the survey will be published in the August issue of Photonics Spectra. Submit a Nomination form.

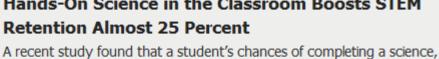


Hands-On Science in the Classroom Boosts STEM









technology, engineering or math (STEM) degree significantly increases when he or

which engage students in hands-on research at a large scale. Researchers from the Texas Institute for Discovery Education in Science analyzed data from more than

she participates in course-based undergraduate research experiences (CUREs),

4,000 students who participated in the Freshman Research Initiative (FRI) at the University of Texas.

Read Article (4) (7) (8) (in C) Optogenetic Technique Rapidly Screens for Cardiac Drug Safety

An optogenetic technique has been used to make cardiac cells beat and optically

OptoDyCE. The fully automated system for all-optical cardiac electrophysiology

can rule out potentially dangerous drugs by testing 30,000 light-responsive cells in

technique streamlines the primarily manual process that researchers use to comply with FDA testing requirements and ensure the safety of the drugs. It can also be

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measure their response, enabling an automated drug-testing process called

less than 10 min, a process that currently takes hours or even years. The

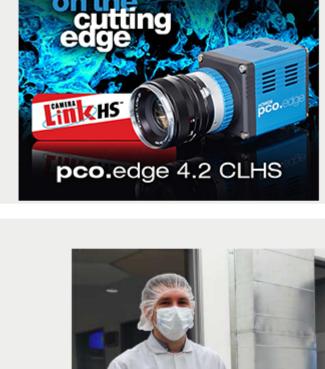
done using a patient's own blood cells using stem-cell techniques.



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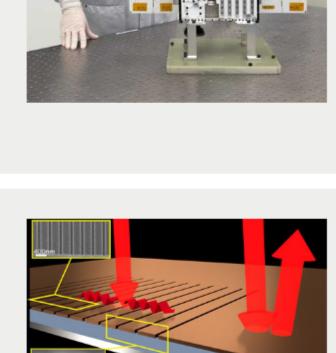
Ultrathin TLA Materials Could Broaden IR Applications Ultrathin gratings composed of common materials were shown to increase the

into the film, directing the light sideways. The semiconductor materials are

absorption efficiency of light to almost 99 percent when thin grooves were etched

compatible with optoelectronic applications such as photodetectors and optical

examining total light absorption (TLA) in homogeneous ultrathin films, finding that



modulators, and could make IR technology less expensive and more accessible. A team comprising researchers from the University of Sydney, Australia National University and University of Technology Sydney began their investigation by







Phoenix, Sandia to Collaborate on PICs Read Article

Tunable Laser

New Focus

is capable of both fine (piezo) and coarse (DC motor) mode-hop-

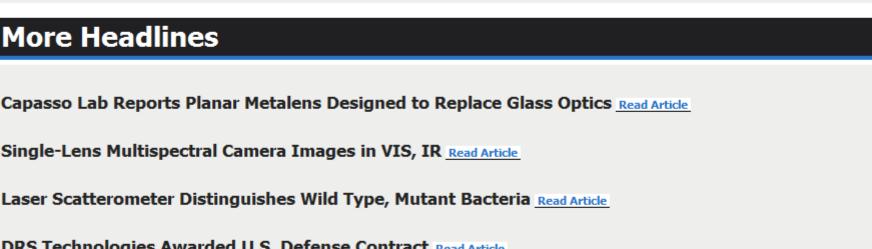
free tuning. The TLB-6740 operates in single mode and provides >

4mW of free space power at 2400 nm with a linewidth of less than

200 kHz (measured over 50 ms). Applications for...

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communities of interest will debut. Led by technical experts, top analysts, and

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leaders from some of the biggest names in electronics, the new forums are generating significant advance interest and buzz, including an Advanced Manufacturing Forum; Flexible Hybrid Electronics Forum; and a World of IoT Forum, addressing trends impacting the market, including smart things and MEMS and sensor manufacturing. More Info

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