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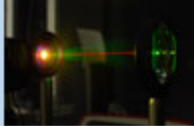

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With Laser-Doping, Silicon Responds to IR Light
New IR imaging systems could be possible now that a new method demonstrated that silicon is more responsive to IR light when laser-doped with one of its most dangerous impurities: gold. The method supersaturates silicon, which normally lets most IR light pass right through it, with gold atoms, resulting in a net positive optoelectronic impact when IR light shines on the device. "It's a big milestone; it shows you can do this," said MIT graduate student Jonathan Mailoa. "This is especially attractive because we can show broadband infrared response in silicon at room temperature."

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Lighting Up Brain Stops Liquored-Up Rats
Stimulating brain cells with light stops binge drinking in rodents, the University of Buffalo found. The results suggest the possibility of using optogenetics to treat substance abuse, neurological diseases and mental illnesses.

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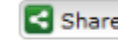



US Research Spending Decline Driven By Industry
A sharp drop in US spending on biomedical research has been driven almost entirely by reduced investments from industry, not the public sector, a new study found.

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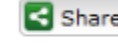



Lightwave Pioneer Kaminow Passes
The pioneer in photonic devices and developer of several key aspects of lightwave communication systems died on Dec. 18. He was 83.

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Chemistry Advance Paves Way for Printable Photonics
A method that turns certain chalcogenide compounds into high-quality, larger exfoliated flakes than currently available can be used in printable photonics and electronics.

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3 Amp Precision Laser Diode Driver
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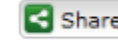



GE Boosting Drug Discovery with \$1B Acquisition from Thermo Fisher
GE Healthcare will expand its drug discovery offerings in the fast-growing life sciences market with the \$1 billion acquisition of three businesses from Thermo Fisher Scientific, the companies announced this week.

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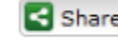



Gorilla Glass Goes Curvy, Sheds Cooties
Corning announced a novel 3-D glass-forming technology to add curves to its Gorilla Glass, used to cover millions of smartphones and other handheld devices, and also introduced an antimicrobial version of the material.

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Laser-Driven Nanobubbles Noninvasively Detect Malaria
Noninvasive, laser scanner "vapor nanobubble" technology uses no dyes or diagnostic chemicals and can detect even a single malaria-infected cell among a million normal cells, with zero false-positive readings.

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Imaging Technology Could Unlock Mysteries of a Childhood Disease
A superresolution imaging technique that allows the structure of a respiratory virus to be seen in living cells could help unlock the virus's secrets, including how it enters cells and replicates, and why certain lung cells escape relatively unscathed.

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Industry Events

SPIE Photonics West 2014 - February 1 - 6, 2014 - San Francisco, CA
Visit Photonics Media at Booth 700 & 701




Participate at the SPIE Photonics West 2014 conference (20,000 attendees, two exhibitions, 1300 exhibiting companies, 4500+ papers) for biophotonics, biomedical optics, translational research, industrial lasers, optoelectronics, microfabrication, optical MEMS, and more.

In 2013, the exhibition sold out with more than 1234 companies. This year's exhibition will include five days of presentations, courses, and special events that offer opportunities for face-to-face interaction with potential customers.

The Job Fair will be held in conjunction with the SPIE Photonics West Exhibition. An 'Exhibit-Only' badge or any other type of Photonics West badge is needed to enter the exhibit hall. Upload your CV or resume in advance to be found by employers. In-person attendance is not required to upload your resume.

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