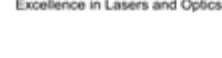


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Spectroscopy Instrument to Aid in the Search for Extraterrestrial Life

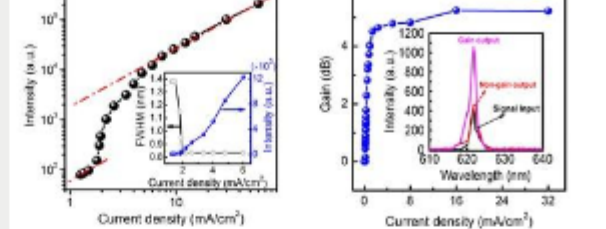
A compact spectroscopy instrument has been developed for use in planetary exploration. The system, called the standoff ultra-compact micro Raman (SUCR) instrument, is capable of inspection and identification of minerals, organics and biogenic materials within several centimeters (2 to 20 cm) at a 10- μ m resolution.



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Changchun Team Investigates Threshold and Light Amplification in Electrically Pumped OSLEDs

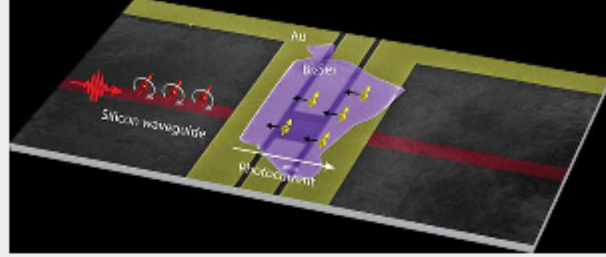
Organic semiconductor laser diodes (OSLEDs) can be prepared using simple processing technologies and can be integrated easily with other optoelectronic devices. This makes them attractive for use in low-cost, compact, flexible and tunable lasers with spectral regions from the UV to NIR. Although lasing has been widely demonstrated under optical pumping, electrically pumped OSLEDs have posed a challenge.



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Researchers Generate a Directional, Spin-Polarized Photocurrent Using Topological Insulator

Researchers have developed a device for controlling the direction of photocurrent without using an electric voltage. This device, according to researchers, could provide a way of implementing coupled spin-orbit interaction between electrons and photons and could lead to applications in opto-spintronics and quantum information processing.



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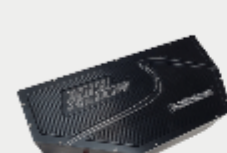


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Mounted Cameras Track Location of Autonomous Vehicles in Mining Sites

A new positioning technology uses vehicle-mounted cameras supported by algorithms to track the position of a vehicle in underground tunnels to within yards of its location. Autonomous vehicles operating in underground mines currently rely on expensive sensing or infrastructure modifications to navigate.



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Furukawa Electric Opens Mexican Plant

Furukawa Electric LatAm, a company of the Furukawa Electric Group, has opened a new manufacturing facility in Mexico focused on the production of solutions for the communications market. The new plant will cover 6000 sq m with two operating units — one for the production of fiber optic cables and cordages and the other for connecting and assembling optical equipment, cordages and accessories.



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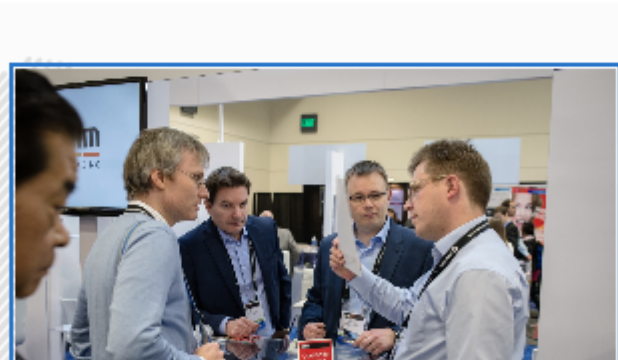
SPIE Photonics West 2018

January 27 - February 1, 2018 - Moscone Center - San Francisco United States

Photonics Media Booth: 846/847

SPIE Photonics West 2018 is the flagship event for the photonics industry. Featured technologies will include: Lasers and other light sources; cameras and CCD components; fiber optics; high speed imaging and sensing; optical materials, substrates and coatings; and much more. With more than 70 courses and workshops to choose from, there is one to fit each individual's needs. Program tracks include: Photonic therapeutics and diagnostics; biomedical spectroscopy, microscopy and imaging; laser sources; nonlinear optics and beam guiding; optoelectronic materials and devices; photonic integration; semiconductor lasers and LEDs; and more.

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Webinars

PBM 101: Photobiomodulation Basics

Tue, Jan 9, 2018 1:00 PM - 2:00 PM EST

This webinar will provide a brief history of the use of light and color to diagnose and treat disease; review the science behind photobiomodulation (PBM); and present examples of "real world" applications where this emerging technology is being successfully used. Presenter Robert S. Dotson, M.D., FAAO (board-certified, Ophthalmology) has been actively involved in researching and developing PBM technology for applications within ophthalmology for over 15 years. He is the founder of two companies focused on developing PBM applications, Photospectra and LumiThera.

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