









LightMachinery

A better excimer laser. The IPEX-700. www.lightmachinery.com

sponsor



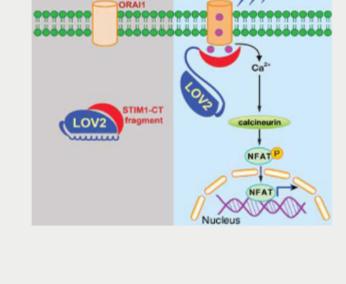
Optogenetic Immunomodulation Reduces Cancer Tumor

Top Stories

Optogenetics has been modified for an immunotherapeutic approach that aims to kill cancerous tumor cells. Neuroscientists have used light to stimulate neurons for

Size, Metastasis in Animal Model

years, said professor Yubin Zhou of Texas A&M University's Health Science Center Institute of Biosciences & Technology. In neuroscience, optogenetics involves genetically engineering cells to produce proteins from light-sensitive microbes. The result is nerve cells that either send or stop sending nerve impulses when exposed to a particular wavelength of light.





Environmental Sensors



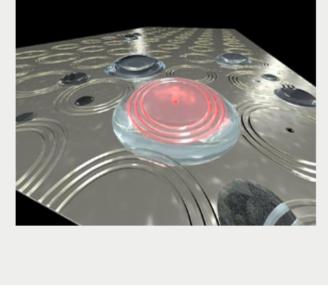


Plasmonic Interferometry Could Enable Compact Bio-,

A nanoscale plasmonic interferometry system that eliminates the need for an external coherent light source could enable accurate and compact bio- and environmental sensors. In the device, fluorescent light-emitting atoms were

light source was still necessary to excite the internal emitters, but it didn't have to be a specialized coherent source. The system was developed in the lab of professor Domenico Pacifici at Brown University's School of Engineering.

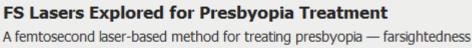
integrated directly within a tiny hole in the center of an interferometer. An external











patient's need for reading glasses. A virtual model of the technique — called

caused by by loss of elasticity of the lens of the eye — could eventually eliminate a

femtosecond- or fs-lentotomy — is being developed to simulate the surgery, in which the eye's crystalline lens is made flexible again by performing microcuts with

an fs laser.











sponsors



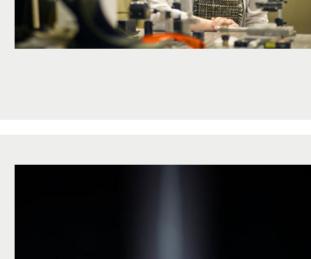
Applied technologies of advanced materials, smart sensor networks, non-destructive evaluation, and structural health monitoring.

REGISTER TODAY

34890 Read Article

optofluidic laser for better disease detection. Assistant professor Yuze "Alice" Sun

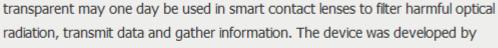
will use her Career Award to create a new-generation laser that will lead to a versatile biosensing platform featuring high detection sensitivity, selectivity and

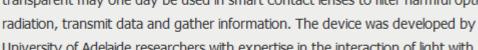


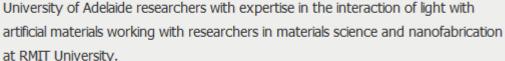
Nanoscale Device Adapts Filtering Properties When Stretched

at RMIT University.

throughput.

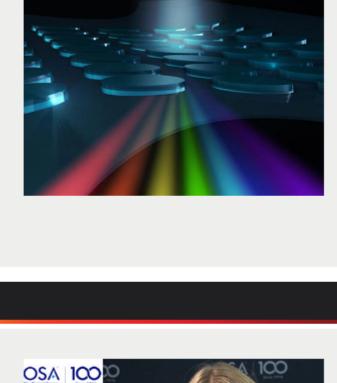






A stretchable nanoscale device that can filter specific colors while remaining

Read Article **Featured Video**

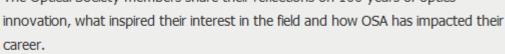


OSA

OSA 100

Watch Now

The Optical Society members share their reflections on 100 years of optics



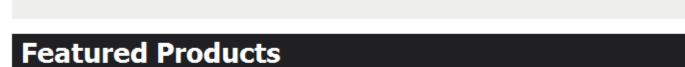
More Headlines

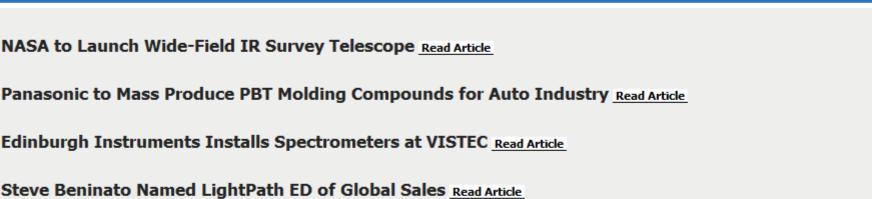
OSA Centennial - Dana Kraliceh, University of Arizona

NASA to Launch Wide-Field IR Survey Telescope Read Article

Steve Beninato Named LightPath ED of Global Sales Read Article

Ultratech Promotes Two Senior VPs Read Article





GONIOMAT for Prism

Vermont Photonics Technologies

The GONIOMAT M is a semiautomatic

The Right Semiconductor Laser

replacement lasers, the NLC 488nm argon

Known as one of the highest quality

More Info

More Info

Angle Testing

Precision Optical Precision Optical manufactures some of the most challenging prisms in the world, from standard prism goniometer with robust, innovative, and easy to use software.

The Prism Specialists

1210.

shapes to intricate custom geometries.

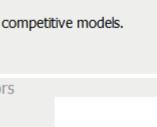
Optical Wavemeter

New Focus, a Newport Company and

New Focus

leader in photonics solutions, is introducing its first Wavemeter, the WM-More Info sponsors

More Info



National Laser Company

laser outlives and outperforms

Industry Events

PITTCON 2016

March 6-10, Atlanta

laboratory instrumentation with live demos and product seminars, talk with technical experts, allowing attendees to find solutions to laboratory challenges. W.E Moerner, 2014 Nobel Laureate and Harry S. Mosher Professor in Chemistry at Stanford University, will give the Wallace H. Coulter Lecture. More Info

This global exposition provides the opportunity for hands-on access to the latest

PHOTONICS buyers' guide®

Looking for Test, Measurement and Positioning products? Search PhotonicsBuyersGuide.com, or browse these product categories:

Fluorescence Spectrophotometers Lens Mounts

Autocollimators

Temperature Controllers

Optical Micrometers

Power Meters

CALL FOR ARTICLES!

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (Photonics Spectra, Industrial Photonics, BioPhotonics and EuroPhotonics). Please submit an informal 100-word abstract to Managing Editor Michael Wheeler at Michael.Wheeler@Photonics.com

Questions: info@photonics.com