





LightMachinery

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

sponsor



Solar Lighting Could Create 2 Million Jobs in Developing

Top Stories

Countries A shift to solar LED systems and away from fuel-based lighting in the developing world may spur economic development as well as environmental improvements,

creating an estimated 2 million solar-based jobs in some of the world's poorest regions. A survey of major solar LED lighting companies, conducted by Evan Mills at Lawrence Berkeley National Laboratory (Berkeley Lab), found that 38 solarrelated jobs are created for each 10,000 people living off-grid and for whom standalone solar LED lights are suitable. **3 7 8 6 9** Read Article



nanoparticles.



Sensor Technology







nanodiamonds in a vacuum chamber may lead to the development of novel sensors for detecting, measuring and monitoring gases. It may also provide a future template for the testing of quantum physics at the macroscopic level using

2D Graphene Photodetectors Offer Path to Novel

semiconductor devices, and could lead to greater speed and efficiency in

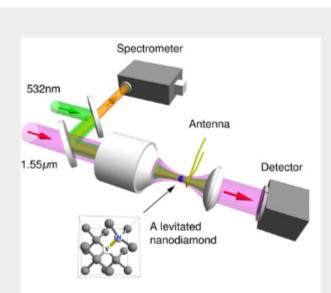
makes use of the optical properties of graphene including graphene's

A novel way to detect and harvest low-energy photons using heterostructures made of 2D materials and graphene may overcome the limitations of conventional

optoelectronic applications. The technique — termed the photo-thermionic effect

A technique used to detect and control the electron spin resonance (ESR) of

Read Article 🚷 🚹 😵 🛅 💟



broadband absorption, ultrafast response and gate tunability.

Optoelectronics

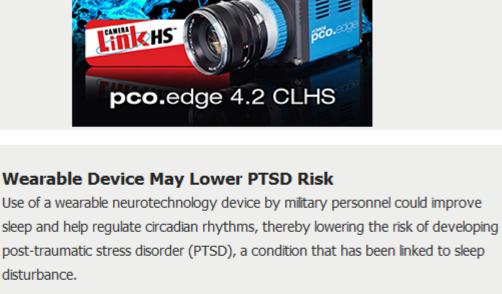












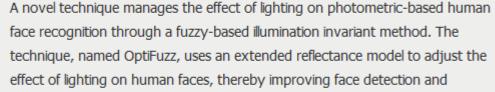
sponsors



io ICPO / Fabies Visto

Read Article 🚷 👣 😵 🛅 💟

Imaging Technique Enhances Face Recognition in Variable



recognition results under a variety of illumination conditions.

Read Article (3 (7) (8) (in) (v) **More Headlines**





Lighting Conditions



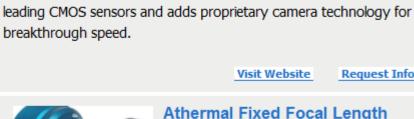
Infinera Deploys Network Across MENA Read Article



Jenoptik, Western Australia Police Partner for Traffic Monitoring Read Article

Trumpf Reports Sales Increase Read Article

Featured Products



mm.

Visit Website

Genie Nano: Low Cost

Teledyne DALSA, Machine Vision

Performance

Introducing Genie Nano, a GigE vision CMOS area scan camera that

redefines low cost performance. Genie Nano starts with industry

OEM Components

Assemblies ISP Optics Corporation

ISP Optics is expanding and

Athermal Fixed Focal Length Assemblies. These Fixed Focal Length

Athermal Fixed Focal Length

Lenses are designed for uncooled IR detectors and for a single angular field of view, with focal lengths ranging from 19 mm to 60

Visit Website

demonstrating its LWIR Imaging

Honoring the best new optics PRISM20





Opto Diode now offers a new expanded

Visit Website

Request Info

Integrated Modules from Extreme UV to Mid-IR

line of silicon photodiodes and IR

Opto Diode Corporation

Polarizing Beam Splitter Cubes

Perkins Precision Developments LLC

Adhesive-free, precision beam splitter

cubes from Perkins Precision

Developments are available for high-power laser applications from

355 to 2000 nm in sizes from 3×3 mm to 15×15 mm. Our

epoxy-based techniques for photonics applications.

epoxy-free optical assembly process is an alternative to existing

detectors for applications requiring a higher level of integration.

sponsors SEPTEMBER 20-22 PARADISE POINT RESORT & SPA | SAN DIEGO, CA



TO LEARN MORE

VISIT WWW.OLEDSWORLDSUMMIT.COM

and photonics products **Industry Events**

IMTS 2016



CALL FOR

AWARDS17

September 12-17, 2016 - McCormick Place - Chicago United States

Request Info

Photonics Media Booth: N-6183 The International Manufacturing Technology Show is one of the largest industrial trade shows in the world, with more than 114,000 registrants for 2016. systems and processes that can improve their efficiency.

More Info



Manufacturing industry professionals from all over the world attend to see more than 15,000 new machine tools, controls, computers, software, components,

PHOTONICS buyers' guide®

Optical Testing Instruments

Laser Diode Test Equipment

Wavefront Analyzers

Solar Simulators

(Photonics Spectra, Industrial Photonics, BioPhotonics and EuroPhotonics). Please submit an informal 100-word

CALL FOR ARTICLES!

abstract to Managing Editor Michael Wheeler at Michael. Wheeler @Photonics.com, or use our online submission form.

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines

Questions: info@photonics.com

Reproduction in whole or in part without permission is prohibited.

Looking for Test & Measurement products? Search PhotonicsBuyersGuide.com, or browse these product categories: Ultraviolet Spectrometers Visible Spectrophotometers