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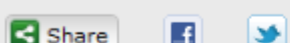
January 2015

Trends in Sustainability



In the optics, imaging and lighting sectors, the goal of sustainability is propelling photonic technologies. From individual citizens and businesses right up to entire industries and governments, efforts to improve sustainability, reduce carbon footprints and increase energy efficiency are driving new – and sometimes surprising – innovations across the field of photonics.

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Trends in New Materials

Scientists are developing an entirely new generation of ultrathin materials such as graphene and germanene, whose photonic properties promise a new frontier of components and devices.

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Trends in Modularity



Furniture. Spacecraft. "Dungeons & Dragons" adventures. In each of these you can find modules, independent units or components that combine to make a more complete, more satisfying whole. With the modular approach, you pick and choose the components you want, putting them together in such a way as to meet your requirements effectively. Modularity ensures that your furniture fits perfectly in your room. You don't have too much couch. You don't have too little. You have exactly as much couch as you need.

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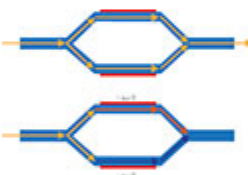
Trends in The Economy

Advancing technologies, broader applications and societal trends are impacting both the industry and the economy. More and more, light-based technologies are addressing significant issues facing the world today – energy efficiency, health care, security, financial needs – as demonstrated in some major breakthroughs in technology such as LEDs and displays, cost-effective manufacturing, and development of innovative imaging and sensing devices.

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Silicon Photonics: A Field that Is Constantly Changing



In this active, exciting area of development, new devices, techniques and studies are presented at every turn.

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Photonics Innovators Named 2015 Prism Awards Finalists

Innovative products, inventions and companies will take center stage Feb. 11, as the winners of the 2015 Prism Awards for Photonics Innovation are honored during SPIE Photonics West in San Francisco.

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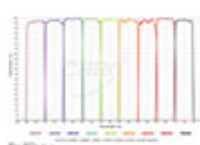


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Products from this Issue



Filter Solutions for Machine Vision

Chroma Technology Corp. Chroma's state-of-the-art coating technologies, complete in-house engineering and U.S. manufacturing capabilities provide you with a choice of services, including product development of small quantities or high-volume manufacturing.

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UV Light Distribution Mapping System

FujiFilm Corp. Visualizes UV light amount distribution by color density.

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Nocturn GigE Low-Light Color Camera

PHOTONIS USA, Inc. PHOTONIS Digital Imaging introduces a new Gigabit Ethernet Color Low Light camera optimized for low-light conditions.

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Monochromatic Light Units

Knight Optical (UK) Ltd. A new range of monochromatic light units from Knight Optical uses low-pressure sodium light sources to ensure a long operating life.

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Industry Events

SPIE Photonics West - Feb. 7 – 12, 2015 · San Francisco, CA



Present your work at Photonics West, the laser, photonics, biomedical optics conference: 21,000 attendees, two exhibitions, 1250 exhibiting companies, and 4700 papers on biomedical optics, biophotonics, translational research, industrial lasers, 3-D printing, optoelectronics, microfabrication, MOEMS-MEMS, displays, and more.

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