Thursday, April 12, 2018 This Week In PHOTONICS MEDIA

sponsor







<u>LightMachinery</u>

Ready to go. Out of the box. @www.lightmachinery.com

The HyperFine Spectrometer, Brillouin spectroscopy.

Gaining Nanoscale Control over Quantum Systems Scientists at Oak Ridge National Laboratory (ORNL) and Vanderbilt

Top Stories

University have developed methods to help control the leaky, dissipative behavior inherent in quantum systems and materials. To do

so, they examined the quantum nature of nanostructures. ORNL researchers had previously explored the need for precise control over nanoscale energy transfer to enable long-lived entanglement. Read Article 3 A B D



Window







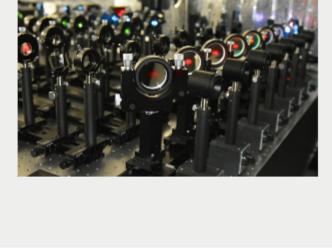
fold, according to the team.

Researchers have developed a way to suppress photobleaching when using live-cell single fluorescent-molecule imaging (SFMI). The new method improves the observation time of fluorescent molecules by 40-

Read Article

Microsensor Could Help Individualize Dialysis Treatment A new microsensor could make it possible to directly monitor and

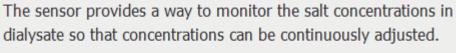
important step toward customizing dialysis to the individual patient.







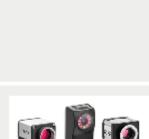




adjust the composition of kidney dialysis fluid (dialysate) — an

Photonics Media Machine Vision is a new book for

Featured Products



standard apps.

PHOTOMES

marketers and students looking for a broad survey of advancements in systems, components and processes.

Visit Website

is a resource for designers, engineers, researchers,

Cameras

manufacturer IDS transforms cameras and sensors into

devices to solve a vision task that isn't covered by

customized, smart vision sensors. You need your IDS NXT

Machine Vision

anyone designing or selecting

machine visions systems, and

implementing or considering the

use of machine vision for a specific

application. This engaging overview

Request Info

Systems GmbH Industrial cameras that are as versatile and easy to use as your smartphone? This has become reality. We introduce

Novel App-based Industrial

Visit Website Request Info sponsors

iDS nxt

SENSOR®!



screens.

photon counts, PCO's back illuminated sCMOS camera system pco.panda 4.2 bi can

To see or not to see: If every single

Visit Website

Pioneering sCMOS Back

Request Info

AR/VR Lens: Measure Displays

Radiant Vision Systems, Test &

Displays viewed near to the eye,

such as those in AR/VR devices,

in Headset

Measurement

create immersive virtual experiences. However, as display

images are magnified to fill a user's field of view, display

brightness and color, dead pixels, line defects, cloudiness,

Illuminated!

PCO-TECH Inc.

defects are also magnified. Issues with uniformity of

and image position become more evident to the user

whose eyes are only centimeters away from display

quantum efficiency of up to 95%. Visit Website Request Info

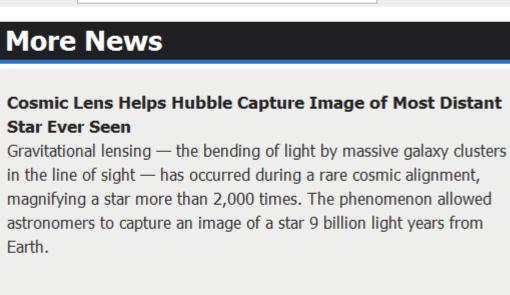
sCMOS technology, the pco.panda 4.2 bi reaches a

illuminated sensor and based on the latest innovations in

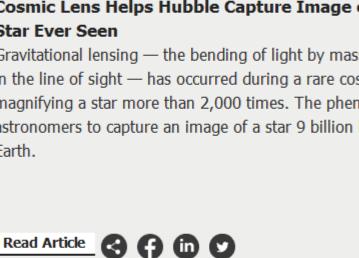
DCO. up to







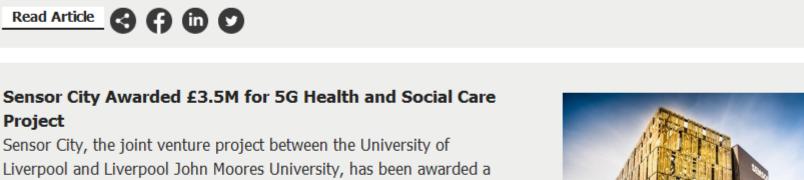
iDS www.ids-nxt.us



£3.5 million grant to investigate the opportunities of 5G community

Optalysys Makes Deep Learning Breakthrough Read Article

CEA-Leti Announces Quantum Bit Breakthrough Read Article



3 7 8 9 **More Headlines**

Read Article

Wi-Fi in health and social care.

Earth.

Project







- 7 June 2018

sponsors

photonics event covering the most significant photonics technologies, from digital optics to quantum technologies to attosecond science. New topics to be covered in 2018 include 3D printed optics, photonic glasses, optical biopolymers, unconventional optical imaging and more. This year offers seven new conferences, an unprecedented number of papers, and a Student Optical Design Challenge focusing on immersive displays. **Webinars Fundamentals of Helium Leak Detection** Tue, Apr 17, 2018 1:00 PM - 2:00 PM EDT

April 23-26, 2018 - Strasbourg Convention & Exhibition Centre -

SPIE Photonics Europe 2018 is a cross-disciplinary optics and

leak detection. You will learn the different methods of locating leaks and determining leak rate, and which method to employ for your

Register Now

More Info





Pixelink Cameras Find Home on NASA Orion Spacecraft Read Article Optically Heated Nanotweezers Manipulate Materials at Nanoscale Read Article

Stabilizing

design.

the Line of Sight

and Rhonda L. Kennedy

A methodology and an example for executing a successful end-to-end line-of-sight pointing

By Peter J. Kennedy

STABILIZING

THE LINE

QF SIGHT

Softcover: \$89 Hardcover: \$109

PHOTONICS MEDIA PRESS

Industry Events

Photonics Europe 2018

Strasbourg France

Messe Stuttgart (German)

From LEDs to medical devices to microelectronics to fiber optics everything leaks! This 40-minute webinar, presented by Agilent Technologies, will describe the challenges of locating and measuring

product or system.

From Layout to Multiphysics: Integrating Thermal and

Photonics Simulation into the PIC Design Flow Thu, Apr 19, 2018 11:00 AM - 12:00 PM EDT Presented by CST, this webinar will show you how to use CST STUDIO SUITE to simulate the design of Photonic Integrated Circuits (PICs). It will demonstrate the complete workflow to analyze thermally tuned PIC devices, starting from a component model in Luceda Photonics IPKISS. Simulating PIC devices can be challenging. This webinar will introduce you to CST STUDIO SUITE's unique platform for addressing these challenges. Register Now

PHOTONICS buyers' guide® • EXHIBITOR SPOTLIGHT



Vortex Optical Coatings Ltd. is an optical filter manufacturer based in the middle of the UK. We design and manufacture IR filters and Linear Variable Filters (LVF) for sensing and measurement applications. Our

filters are used in gas sensing, analysis in the industrial for recycling, soil analysis, fluorescence microscopy applications, IR apace applications, spectroscopy applications including positive identification of low concentrations of materials and 'order sorting'. Learn more about VORTEX OPTICAL COATINGS LTD. Visit Website

Looking for Materials, Chemicals & Coatings products? Search PhotonicsBuyersGuide.com, or browse these product

Optical Coatings

Laboratory Instruments and Supplies

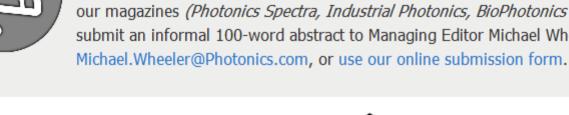
Thin-Film Coatings

categories:

Optical Materials

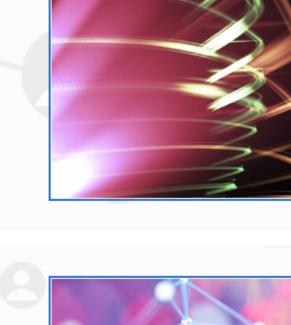
CALL FOR ARTICLES! Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (Photonics Spectra, Industrial Photonics, BioPhotonics and EuroPhotonics). Please submit an informal 100-word abstract to Managing Editor Michael Wheeler at





Questions: info@photonics.com

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949



production of chemicals and materials, sorting of plastics

Antireflection Coatings



Unsubscribe | Subscribe | Subscriptions | Privacy Policy | Terms and Conditions of Use