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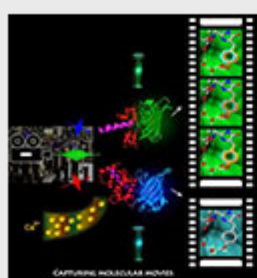
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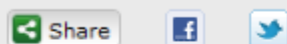
Thursday, July 10, 2014

Molecular Movies Enhance Bioimaging, Health Research



A new biosensor imaging system is turning health research into a molecular movie star, as it allows scientists for the first time to view life processes at the molecular level as they are happening. This could lead to the creation of more effective biosensors capable of studying in real time and on video everything from cell metabolism to the body's reaction to the flu virus.

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Hollow Core Protects Optical Fibers from UV Light

A new type of optical fiber can guide UV laser light without sustaining the damage often seen in conventional fibers.

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Light-activated Receptors Offer Cell Control

Controlling the behavior of cells, including cancers, with light is now possible with engineered cell receptors.

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Products on PhotonicsBuyersGuide.com



Room Temperature HgCdTe Detectors

Infrared Associates, Inc. can now provide Room Temperature HgCdTe detectors covering the range of wavelengths from 1 um to 6 um. These detectors have both high sensitivity and ease of operation.

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Filters

A.R.W. Optical ARW Optical Corporation manufactures custom, standard and OEM optical components and coatings in the UV to IR region. Provides rapid prototyping through volume production for all industries.

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PCO.edge with Deep Cooling

PCO AG presents a further model of the pco.edge sCMOS camera family. The brand new member with deep cooling is called pco.edge gold 5.5.

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Diode Laser Lens Assemblies

Universe Kogaku (America) Universe Kogaku designs and manufactures lenses for diode laser collimators, CD and DVD players, laser pointers, laser levels, laser surface inspection systems and positioning and measuring equipment.

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In Memoriam: Robert Woltz, SPIE Co-founder



Robert L. Woltz, one of the founders of SPIE, died June 14 at the age of 92.

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Metamaterial a One-Way Street for Visible Light

A structure based on hyperbolic metamaterials allows visible light to pass in only one direction, creating new possibilities for optical circuits and biosensing.

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Solar Cell Converts CO2 into Useful Acid

Researchers have found a way to convert carbon dioxide into a potential fuel with record efficiency.

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In this edition of the industry's premier weekly newscast: Compressive imaging unscrambles light, hollow-core optical fibers protect against UV light, spectroscopy sheds light on solar panels, metamaterials allow one-way visible light, and SPIE mourns the loss of its co-founder, Robert Woltz.

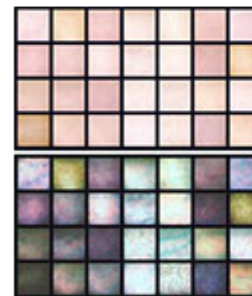
Isaac Newton Medal Awarded to Laser Cooling Researcher

Dr. Deborah Jin has been recognized with the Institute of Physics' Isaac Newton medal for her work on laser-cooled atoms.

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Standards Sought for Hyperspectral Imaging



Researchers begun gathering data they expect will lead to universal calibration standards for hyperspectral imaging.

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'Nanojuice' Aids Intestinal Imaging

A cocktail of fluorescent dyes and nanoparticles could aid in the diagnosis of gastrointestinal ailments.

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WHITE PAPER



Designing with UVC LEDs: Accelerating Spectroscopic Applications in Life Sciences and Environmental Monitoring

UVC LEDs are displacing traditional broad spectrum UV lamps in a wide range of spectroscopic applications. Advances in life sciences and environmental monitoring are driving end user demand for flexible instruments to address increasingly complex analytical challenges.

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Industry Events

Microscopy & Microanalysis 2014 - Aug. 3-7, 2014 · Hartford, Conn.



M&M 2014 is an annual meeting and conference for the microscopy and microanalysis industries.

The event will feature an awards presentation, as well as numerous lectures and symposiums that focus on topics such as Microscopy and Spectroscopy for Power Generation and Energy Storage, Advances in In-situ Microscopy, Extended Crystal Defects, and Carbon Nanomaterials and Related Counterparts.

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