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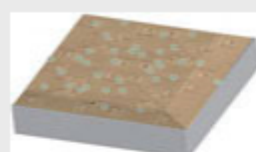
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PHOTONICS.com

Monday, March 6, 2017

Silk-Diamond Hybrid Study Shows Advancement in Bio Imaging



A new hybrid nanodiamond-silk material could enhance biological imaging and refine medication delivery. The new particles are made of nanodiamonds and covered in silk. They can be injected into living cells, and glow when illuminated with certain kinds of light. Biologists can use them to peer inside cells and untangle the molecular circuitry that governs cellular behavior, and to study how cells react to a new medication.

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Harnessing Randomness to Improve Lasers

Randomness could be key in improving the performance of lasers in sensing and imaging applications, a new study shows.

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MU Team Develops 3-D Atomic Force Microscope

An advanced 3-D force microscope will allow the study of membrane proteins in conditions similar to those found in the body, which could prompt a better understanding of proteins on the microscopic level and faster drug therapies.

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Ireland backs photonics for future economic impact

The newly opened Irish Photonic Integration Centre is focused on improving data transfer speeds, creating new energy-efficient devices and delivering medical components for disease diagnostics and treatments.

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RHK Japan
NTKJ's product line includes linear prisms, Fresnel, linear Fresnel, lenticular, fly's eye and customized lenses. Mold manufacturing services for plastic sheet lenses from large to small sizes.

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Centrifuges for Continuous Filtration

Sanborn Technologies
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Lumenera's Lt365R Now Available

Lumenera
The Lt365R series takes advantage of Lumenera's unique memory buffer technology so frames are not lost while running the camera at the sensor's maximum output.

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Y1000L Laser Diode Test System

Yelo Limited
The Y1000L laser diode test system is a universal tester capable of burn-in aging and life-time testing of multiple photonic devices at the same time.

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Mordechai Segev Awarded Israel Prize

Physicist Mordechai Segev has been awarded the Israel Prize for his work in the field of optics and lasers.

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ERC Grant Furthers Study of Quantum Info Processing

A five-year, \$2.7 million grant awarded by the European Research Council (ERC) will further the study of fiber-based quantum communications and information processing.

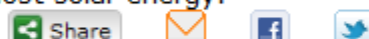
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'Inverse Opal' Structure Enhances Solar Cell Efficiency

Photonic crystals with an "inverse opal" structure could increase the light-trapping capability of thin-film solar cells and help bring about lower-cost solar energy.

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Tektronix Acquires Picosecond Pulse Labs

Tektronix Inc has acquired Picosecond Pulse Labs in a move to strengthen its portfolio of test equipment supporting research and development of 100G/400G optical data communications.

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WHITE PAPER

Beam Expansion - Standard Concepts Re-interpreted

asphericon GmbH

Everyday work in an optics laboratory would be unthinkable without beam expansion systems. They serve to optimally adjust the beam cross sections between the light sources (e.g. lasers) and the subsequent optical elements. Precise illumination of the optically effective surfaces is essential, especially for beam shaping and focusing with high numerical apertures. The most widespread basic principles of afocal beam expansion systems are based on the telescopes of Kepler and Galileo. In the following article, the various modes of action are revealed in more detail and new approaches based on the use of aspherical surfaces are presented and discussed.

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Industry Events

SPIE Photonics West 2014 - February 1 - 6, 2014 · San Francisco, CA

Visit Photonics Media at Booth 700 & 701

Participate at the SPIE Photonics West 2014 conference (20,000 attendees, two exhibitions, 1300 exhibiting companies, 4500+ papers) for biophotonics, biomedical optics, translational research, industrial lasers, optoelectronics, microfabrication, optical MEMS, and more.

In 2013, the exhibition sold out with more than 1234 companies. This year's exhibition will include five days of presentations, courses, and special events that offer opportunities for face-to-face interaction with potential customers.

The Job Fair will be held in conjunction with the SPIE Photonics West Exhibition. An 'Exhibit-Only' badge or any other type of Photonics West badge is needed to enter the exhibit hall. Upload your CV or resume in advance to be found by employers. In-person attendance is not required to upload your resume.

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