Thursday, August 27, 2020

This Week in PHOTONICS

PHOTONICS MEDIA photonics.com

.: Top Stories

Photonic Instruments, Components Driving (and Steering) NASA's Mars Rover
Numerous photonic devices and applications are contributing to the pursuit of microbial life on Mars, or, more accurately, the quest to determine if, among other novel possibilities, such lifeforms once inhabited the Red Planet. Among abundant unique components on board NASA's Mars rover Perseverance are lenses, mirrors, prisms, sensors, and cameras from industry developers.

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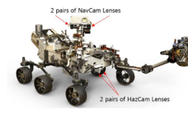
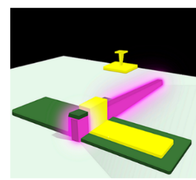


Nanoscale LED Bypasses Efficiency Droop to Take on Laser Qualities
Using microscopic LEDs in a laboratory setting, a team of researchers including scientists from the National Institute of Standards and Technology (NIST) has increased the brightness of laser light, as well as the ability to manufacture it in a controlled environment.

Read Article



Imaging Method Enables Research on Cellular Protein
Researchers at the Salk Institute have developed a new imaging method that allows them to monitor actin, a small subset of skeleton-like filaments within cells. The method has enabled research on how actin mediates an important function: helping mitochondria divide in two. The research could allow for a better understanding of mitochondrial dysfunction, which has been linked to cancer, aging, and neurodegenerative diseases.

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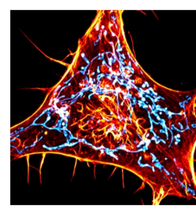

.: Featured Products

POLSNAP Compact Stokes Polarimeter

Hinds Instruments Inc.
Use Hinds Instruments' POLSNAP™ for quantitative polarization data for your free space or fiber coupled VIS and NIR light sources. PolSnap offers the best sampling rate – 2000 samples per second and the best Free Space Aperture at 10 mm, no additional alignment tools needed. PolSnap software includes real time reporting of Stokes Vector values and degree of polarization along with a visual Polarization Ellipse and Poincare Sphere.

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LBP2-HR-VIS3 Laser Beam Profiler

MKS/Newport
The LBP2-HR-VIS3 Laser Beam Profiler is a powerful software driven camera with comprehensive beam diagnostic measurement features. It features the new Model SP920s, a 1/1.8 inch format 1624 x 1224 pixel CCD camera for the wavelength range between 190 and 1100 nm. The protective window on the CCD chip is removed to eliminate optical interference, and the product includes a USB3.0 compatible cable.

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Industrial Laser Safety at a Glance

Photonics Media
A straightforward guide, offering clear, real world explanations of laser safety elements and the necessary background materials for the industrial laser environment. It raises awareness of the dangers of laser exposure, the proper tools needed to protect oneself from the potential hazards of industrial lasers, and the steps that must be taken to ensure a safe environment for all workers.

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Variable Bandwidth Tunable Filter

OZ Optics Limited
OZ Optics introduces a new tunable filter (Manual and Motor Driven). It can tune both wavelength (45 nm tunable range) and transmission bandwidth (1 to18 nm). Two independently adjustable thin-film filters allow the user to set the lower and upper edges of the pass-band region. The transmission band features a flat-top profile, providing uniformly low losses, and low PDL. Available in any wavelength and fiber type.

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Converting Solar Energy into Hydrogen Fuel with Photosynthesis Read Article

Monolayer Transition Metal Dichalcogenide Lens Could Pave Way for Next-Gen Imaging Read Article

Using VIS-NIR Spectroscopy to Quantify Soil Contamination Read Article

NSF Grant Will Advance Sensing and Imaging Technologies for Precision Agriculture Read Article

Design Breakthrough Could Spur Advancements in Solar-Pumped Lasers Read Article

.: Upcoming Webinars

Simulating Lens Systems with the Beam Envelope Method
Thu, Sep 3, 2020 2:00 PM - 3:00 PM EDT
This webinar, presented by COMSOL, addresses the complex task of simulating a lens system by solving the Maxwell equations. The Beam Envelopes interface of COMSOL Multiphysics® makes it possible and easier to do. Learn how to simulate a lens system with COMSOL Multiphysics®, including how to set up an anti-reflective coating surface, mesh a model, and analyze a multi-components system.

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