Thursday, September 2, 2021

This Week in PHOTONICS

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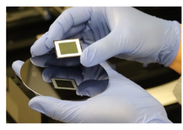
.: Top Stories

ANU Scientists Set New Record with Bifacial Solar Cells
Researchers at Australia National University (ANU) have produced a more efficient type of solar cell — a true bifacial solar cell, using laser processing — and have set a world record for power output with bifacial solar cells in the process.

Read Article

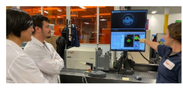


NIR Spectroscopy Could Provide Window into AD Pathology, Therapeutics
To detect Alzheimer's disease (AD) in its early stages, researchers at the VA Bedford and VA Boston Healthcare systems developed a noninvasive optical technique that uses near-infrared spectroscopy to identify changes in the brain by capturing chemical and structural information from brain tissue.

Read Article

AmeriCOM, Sussex County Community College Partner on Optics Tech, Education
Sussex County Community College (SCCC) in New Jersey is the first college to partner with the American Center for Optics Manufacturing (AmeriCOM), under AmeriCOM's Department of Defense-funded, five-year, $34 million Defense Precision Optics Consortium partnership. SCCC announced the partnership Aug. 25.

Read Article



.: Featured Products

SYNOPTICS Rare Earth Doped Fluorides

Northrop Grumman Synoptics
SYNOPTICS provides Yttrium Lithium Fluoride (YLF) crystals doped with a variety of rare earths such as Nd, Pr, Tm Yb, Er, and Ho. Advantages include low beam divergence, efficient single-mode operation, weak thermal lensing, and naturally polarized light.

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Be Creative, Break the Rules – AI-based Imaging Without Prior Knowledge

IDS Imaging Development Systems GmbH
The application possibilities based on intelligent cameras are almost limitless. Since traditional vision solutions work with a fixed set of rules, organic or rapidly changing objects are a huge challenge for them. Artificial intelligence, on the other hand, can handle such situations with ease.

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Optical Society to Sponsor Luminate NY Finals 2021 Competition Read Article

SoCalGas to Use Gas-Mapping Lidar to Reduce Methane Emissions Read Article

Ansys to Acquire Optical Imaging System Simulation Firm Zemax Read Article

Robotic System Makes High-Precision Surface Measurements Read Article

Imaging System Enables Early Detection of Bowel Cancer Read Article

.: Upcoming Webinars

Next Leading IR and 3D Sensors: Improved Process and Quality Control for IoT
Tue, Sep 7, 2021 10:00 AM - 11:00 AM EDT
Technology in the field of infrared cameras and 3D sensor technology requires more and more innovation, flexibility and user-friendliness. AT - Automation Technology has designed its portfolio around these parameters and offers customized solutions that can be individually adapted to any application. In this webinar, Guido Deutz of AT Automation Technology GmbH.

Register Now

Silicon Nitride Photonics with MEMS: Enabling New Sensing and Filtering Systems
Wed, Sep 8, 2021 1:00 PM - 2:00 PM EDT
In this webinar, Philippe Babin, CEO of AEPONYX, discusses silicon nitride photonics' advantages and capabilities and takes a systems-thinking approach to product success. He will also discuss how silicon nitride photonics applies to solving today's challenges and future applications.

Register Now

Get More Out of Your Optical Measurements
Thu, Sep 16, 2021 11:00 AM - 12:00 PM EDT
Maximizing the information captured within optical measurements is the key to discovering smaller effects and observing faster processes, and yet the signal of interest is often buried in an inevitable noise floor. Lock-in amplifiers and boxcar averagers can improve the signal-to-noise ratio by averaging the signal while suppressing spurious noise. In this webinar, Claudius Riek, Ph.D., of Zurich Instruments, focuses on three techniques within their typical application areas to help you choose the best approach and save time when setting up your measurement. Presented by Zurich Instruments.

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