Wednesday, November 20, 2019

Asia-Pacific PHOTONICS

Quarterly newsletter highlighting the latest photonics news, features and products targeted to the Asia-Pacific regional market. Manage your Photonics Media membership at Photonics.com/subscribe.

Asia-Pacific News

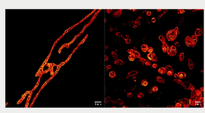
AI, Deep Learning Allow More Accurate Eye Testing with OCT

Researchers at Queensland University of Technology (QUT) are now able to analyze OCT images of the eye closer and more accurately than ever before. The researchers have developed a more detailed and accurate way to evaluate such images, particularly the back of the eye, using artificial intelligence (AI) deep learning techniques.

Read Article

New Molecule Marker Enables 'Unprecedented' Study of Mitochondria

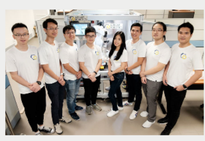
A team at Nagoya University's Institute of Transformative Bio-Molecules has developed a marker molecule that bypasses the problem of photobleaching in STED microscopy. It's allowing an unprecedented view of live mitochondria, which could help researchers better understand, diagnose, and potentially cure human mitochondrial disease.



Read Article

AI-Powered Robot Could Improve Productivity, Reduce Defects in Optics Manufacturing

A robotics technology startup from Nanyang Technological University, Singapore (NTU Singapore), has introduced a new robot that can pick up delicate optical lenses and mirrors with care and precision, just like a human hand. Named Archimedes, the robot can slot lenses and mirrors of different sizes into a custom loading tray to get them ready for coating.



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Featured Products

Alluxa Ultra Series Filters and Coatings

Alluxa

Alluxa Ultra Series Filters, including Narrowband, Dichroic, UV, IR, and Notch filters, provide the highest performance optical thin film solutions available today. For example, the Ultra Series Flat Top Narrowband filters offer the narrowest bandwidths and squarest filter profiles in the industry.

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Excelitas Technologies Corp.

Excelitas Technologies® is a global technology leader focused on delivering innovative, high-performance, market-driven photonic solutions to meet the lighting, detection, and optical technology needs of global customers.

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More News

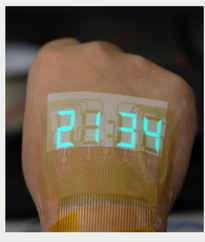
All-Optical Neural Network Uses Parallel Computation to Speed Problem-Solving

In a step toward making the use of large-scale optical neural networks practical, researchers at The Hong Kong University of Science and Technology have demonstrated a two-layer, all-optical artificial neural network with nonlinear activation functions. These types of functions are required to perform complex tasks such as pattern recognition.

Read Article

A Stretchable Display Safely Lights Up Human Skin

A stretchable light-emitting device that operates at low voltages and is safe for human skin, developed by researchers at Nanjing University, could one day provide runners and others with a convenient alternative to a stopwatch or cellphone, allowing them to check their running times with a flick of the wrist.



Read Article

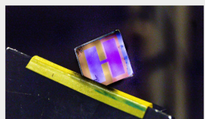
VR System Lets Others Experience What It's Like to Walk in Another Person's Shoes

Researchers from the Toyohashi University of Technology have developed a virtual walking system. The system records a person walking and then replays it to another user through the oscillating optic flow and synchronous foot vibrations.

Read Article

High-Performance Organic Photovoltaic Cells Developed for Indoor Use

Scientists from Linköping University, the Chinese Academy of Sciences, and the University of Science and Technology Beijing have developed organic solar cells that can convert ambient indoor light to electricity. Although the power produced by the solar cells is low, the researchers believe it could be enough power to support the many products that the Internet of Things will bring online.



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