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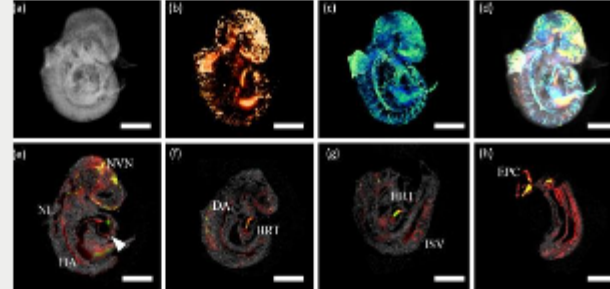


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Top Stories

Researchers Combine OCT and 3D Microscopy to Image Embryos

To help researchers and clinicians better understand the cellular-level events that occur during embryonic development, a team from the University of Houston and Baylor College of Medicine is developing a new technology to allow simultaneous imaging of embryonic structural development and the molecular underpinnings that occur in the developing circulatory system.



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Light-Powered Nano-Microbial 'Factories' Could Help Reduce Carbon

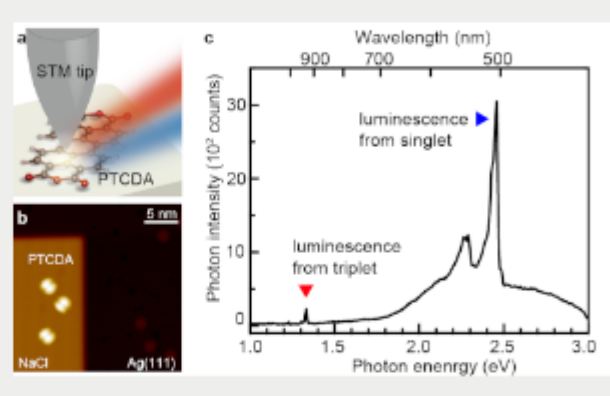
Using light-activated quantum dots to activate specific enzymes within microbial cells, researchers at the University of Colorado Boulder created nanobio-hybrid organisms that can consume harmful gases such as carbon dioxide and convert them into biodegradable plastic, gasoline, ammonia, and biodiesel.



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Selective Formation of Excitons Could Lower OLED Energy Requirements

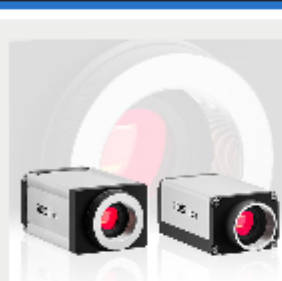
Scientists from RIKEN and the University of California, San Diego, in collaboration with international partners, have demonstrated a new way to manipulate the excitons that are essential to the transport of electrons within OLEDs.



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Featured Products

GenICam-Compliant Camera Functions



IDS Imaging Development Systems GmbH

IDS NXT cameras allow users not only to create and load individual image processing tasks, but also to make them available to any GenICam-compliant application, such as HALCON.

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Flexible Sputtered Coatings



Deposition Sciences Inc. (DSI)

Roll-to-roll processes present a number of challenges when coating flexible surfaces, including unbalanced stress on each side of the substrate and limited line speed. These limitations affect the thickness and possibility of complex coatings. To address these challenges, Deposition Sciences, Inc. (DSI) developed their batch coating technology, MicroDyn®.

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Ultima 2Pplus Multiphoton Imaging



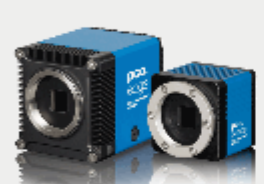
Bruker Nano Surfaces

With new advances in field of view, sensitivity, wavelength, and sample accommodation, Bruker's Ultima 2Pplus delivers the best

commercially available combination of flexibility, resolution, imaging depth, and speed, allowing users to perform simultaneous imaging, stimulation, and electrophysiology protocols with greater efficiency and effectivity.

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Back Illuminated sCMOS by PCO



PCO-TECH Inc.

Unique technology comes from evolution, combining existing and new technology. When PCO's tried

and trusted sCMOS cameras pool forces with modern back illuminated (bi) sensor technology, pco.edge 4.2 bi and pco.panda 4.2 bi come into the world of science. Both cameras stand out with their nearly perfect quantum...

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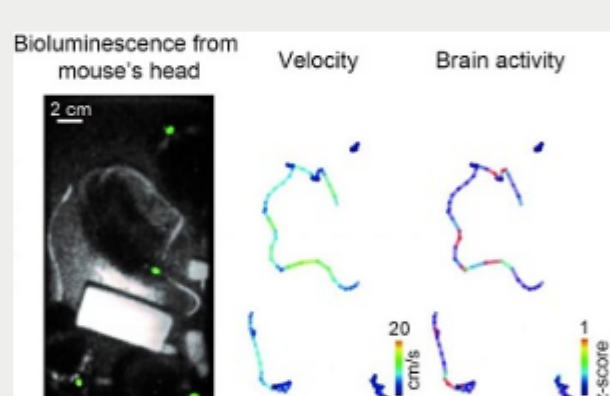


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More News

Cable-Free Brain Imaging Technique Proves Less Invasive, Shows Promise In Neuroscience

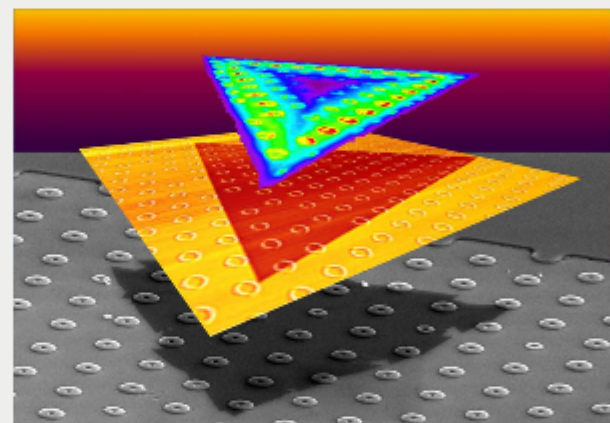
Researchers at Osaka University have developed a method to record brain activity in multiple freely moving mice simultaneously. The method is based on a recent bioluminescence-based indicator of membrane voltage.



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Growing 2D Crystals Over 3D Surfaces Could Be a Way to Engineer Quantum Emission

A team led by the Oak Ridge National Laboratory explored how 2D crystals grow over 3D objects and how the curvature of 3D objects can stretch and strain the 2D crystals. The team's findings could lead to a strategy for engineering strain during the growth of crystals to fabricate single-photon emitters for quantum information processing.



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Sofradir, ULIS Merge to Become Lynred [Read Article](#)

Intelrad Commits \$75M to Advance New AI- and Cloud-Based Medical Imaging Software [Read Article](#)

Bioprinting System Uses Light Sheet Lithography in Top-Down Approach [Read Article](#)

Industry Events

LASER World of Photonics 2019

June 24-27, 2019 - Munich Germany

Photonics Media Booth: B3.368

LASER World of PHOTONICS is the international trade fair for photonics components, systems, and applications and the only trade fair for lasers and photonics that covers the entire photonics sector. Bringing together all the key players at an international level, LASER World of PHOTONICS sets the standards in size, diversity, and relevance and is a source of impetus and a force that drives the market. In 2017, the fair gave 32,7000 visitors and 1,290 exhibitors from more than 70 countries a complete overview of all topics that pertain to photonics.



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Webinars

IIoT and the Future of Vision

Wed, Jun 19, 2019 1:00 PM - 2:00 PM EDT

This webinar will discuss how the Industrial Internet of Things (IIoT) is advancing machine vision. Presenter Tom Brennan will discuss the enabling technologies in IIoT, including embedded computing devices, cloud computing, cameras and smart cameras, software, artificial intelligence, and more. Additionally, he will discuss how IIoT has the potential to improve productivity, reduce waste and downtime, optimize manufacturing processes, and improve machine vision applications.



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