Thursday, October 25, 2018

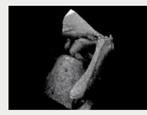
This Week In PHOTONICS

PHOTONICS MEDIA

Top Stories

OCT Tool Explores How Sound Moves Through the Ear

A vibrational imaging tool based on optical coherence tomography (OCT) is providing new insight into how the ear receives and processes sound waves. OCT vibrography images the middle ear through the intact eardrum and measures the tiny vibrations within the ear that contribute to sound perception.



Read Article

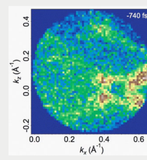
DLP 3D Printing Technique Fabricates Strong, Reconfigurable Origami Structures

Using digital light processing (DLP), a relatively new 3D printing method, researchers have created origami structures that hold significant weight and remain durable when folded repeatedly. The structures are composed of a single polymer. They do not require assembly, making this technique a one-step approach to fabricating complex origami structures.

Read Article

Study Confirms Light-Induced Phase Changes Happen Differently, Results Could Be Used in Optoelectronics

New research demonstrates that light-generated phase changes occur differently than phase changes triggered by temperature. Additional understanding of the process could lead to new types of optoelectronic devices, such as devices for data storage.



Read Article

Featured Products

AR/VR Lens: Measure Displays in Headset

Radiant Vision Systems, Test & Measurement

Displays viewed near to the eye, such as those in AR/VR devices, create immersive virtual experiences. However, as display images are magnified to fill a user's field of view, display defects are also magnified.

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Ensenso X: 3D Vision System Now With 5 MP Models

IDS Imaging Development Systems GmbH

Ensenso X is a modular 3D camera system offered by IDS which is now also available with the high-resolution 5 MP IMX264 Sony sensor. This allows for an expanded field of view, higher resolution and lower noise levels.

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LIGHT: Introduction to Optics and Photonics, Second Edition

Photonics Media

Offering a comprehensive treatment of the subject as well as key applications, and employing minimal math, LIGHT: Introduction to Optics and Photonics was written with readers in mind. This textbook is for beginning students of optics and photonics in high school, community college, and university STEM courses.

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A Smart Cloud-AI Handheld Raman Spectrometer

CloudMinds Technology Inc.

The Cloudminds XI™ is the world's first cloud AI based handheld Raman spectrometer with 785nm laser excitation. The handheld Raman unit is fully integrated with the Cloudminds Data AI Android smartphone.

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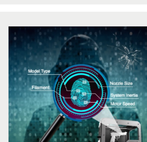
More News

NIR Spectroscopy Enables Accurate Evaluation of OA

An arthroscopic NIR spectroscopic probe could be used to quantitatively assess the health of joint tissues, improving physicians' ability to detect initial signs of post-traumatic osteoarthritis (PTOA). The surgical instrument utilizes NIR spectroscopy (NIRS) to detect cartilage and bone loss.



Read Article

Imaging Method Traces 3D-Printed Objects Back to Their Source

PrinTracker is a 3D-printer identification system that can precisely trace the printed physical object to its source 3D printer based on the object's "fingerprint." It could provide an effective, robust, and reliable way for law enforcement agencies and businesses concerned about intellectual property to trace the origin of 3D-printed goods.

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More Headlines

Deep Learning Approach Streamlines the Design of Metamaterials Read Article

UC San Diego Opens Nikon Imaging Center Read Article

NASA Begins Citizen Science Program to Monitor Land Cover Read Article

British Researchers Awarded EPSRC Funding for Quantum Laser Project Read Article

FEFU Team Awarded Russian Material Grant Read Article

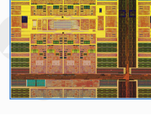
Industry Events

Neuroscience 2018

November 3-7, 2018 - San Diego Convention Center - San Diego United States

Connect with peers and set the course for your career at Neuroscience 2018. The Neuroscience 2018 exhibit hall will showcase the newest and most popular products, technologies, and services to aid neuroscientists in their research. Lectures by world-renowned scientists will be a part of this meeting, as will symposia discussing the latest advances in neuroscience. Nearly 14,000 abstracts with new research will be presented at this year's conference.

More Info



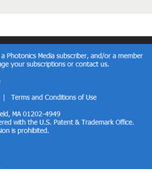
Webinars

Compact Metadevices for Flat Optical Components

Wed, Nov 7, 2018 1:00 PM - 2:00 PM EST

This webinar will discuss inverse-design methods for creating compact metadevices and the use of additive manufacturing for making thin optical components. Professor Koray Aydin will describe his lab's platform for combining inverse electromagnetic design algorithms with additive manufacturing to fabricate millimeter-wave metadevices. Aydin will further show how this platform can be applied to the design and fabrication of electromagnetic and photonic metadevices spanning microwave to optical frequencies. This webinar is sponsored by Knight Optical.

Register Now



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