

This Week in PHOTONICS

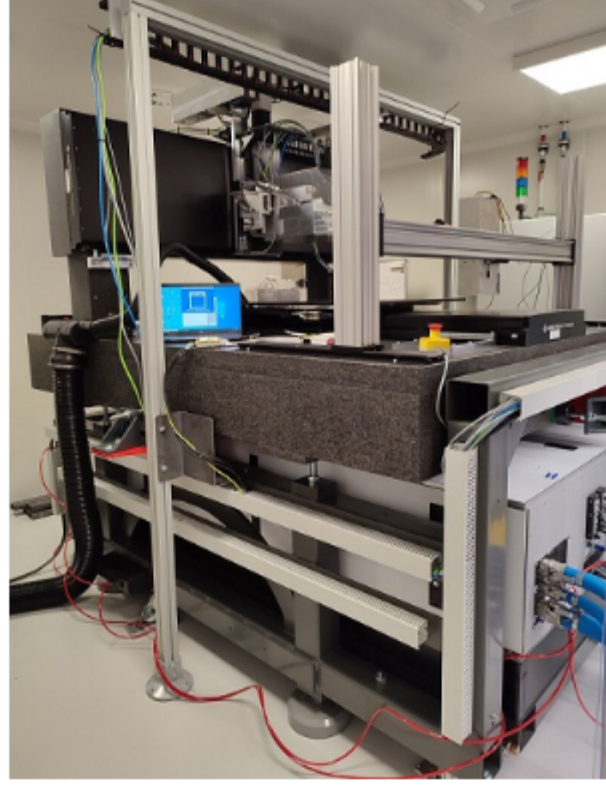


:: Top Stories

Multiyear LAMPAS Project Delivers on Interference Patterning-Based Laser

Collaborators on the EU-funded LAMPAS project have developed what they report to be the first laser system based on interference patterning combined with a polygon scanner system for high-throughput, low-cost surface production with controlled topographic characteristics. The newly developed system can produce well-defined surface patterns with controlled length scales and feature sizes to provide surfaces with advanced functions.

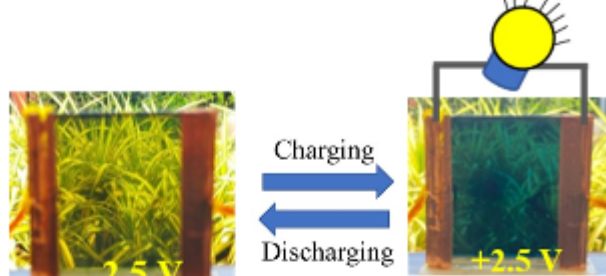
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Electrochromic Smart Window Provides High Performance at Low Cost

Researchers at the Centre for Nano and Soft Matter Sciences (CeNS) and the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) have fabricated a smart window that provides a low-cost alternative to the traditional smart windows used in buildings and cars. The researchers' device incorporates a chemically synthesized conducting polymer as an electrochromic layer, coated over a low-cost transparent conducting electrode.

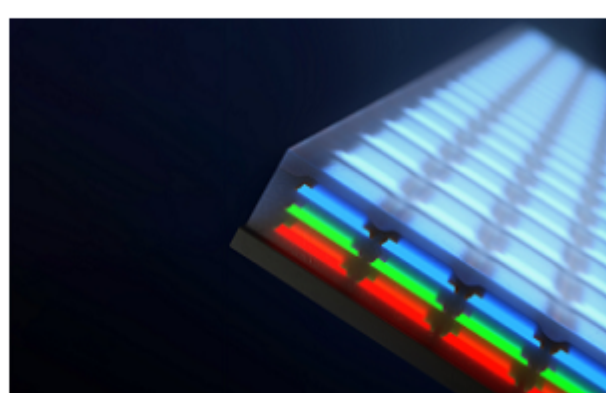
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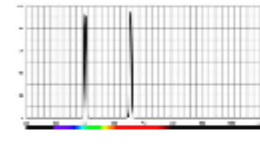
Vertically Stacked Micro-LED Architecture Sharpens Displays

An approach to make displays sharper and defect-free features a design architecture of stacked red, green, and blue LEDs in a formation to create vertical, multicolored pixels, as opposed to placing the diodes side-by-side in a horizontal patchwork. Each stacked microscopic pixel generated the full range of commercial colors. The pixels can be packed to a density of more than 5000 pixels per inch.

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:: Featured Products & Services



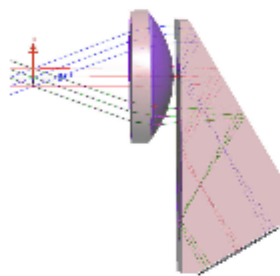
Multi-Bandpass Filters

Delta Optical Thin Film A/S

Delta Optical Thin Film has introduced a range of Multi-Bandpass Filters that transmit two or more distinct wavelength bands while blocking others. These filters are well suited for multi-purpose point-of-care instruments using multiple excitation and/or multiple emission wavelengths.

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CODE V & LightTools Optical Design Software

Synopsys Inc., Optical Solutions Group

Interoperability features between CODE V® and

LightTools® enable designers to easily simulate optical systems that contain imaging and non-imaging components with unparalleled speed and accuracy, from augmented reality headsets and head-up displays to smartphone optics and electro-optical systems.

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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.

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IDENT Sensor for Optical Identification of 1D, 2D, and DMS Codes

Balluff Inc.

Balluff's new IDENT sensor is the first code reader on the market to offer IO-Link, allowing users to integrate code reading without separate Ethernet drops and IP addresses for every reader. This stationary sensor was designed to precisely read barcodes, 2D codes, and Direct part marked codes.

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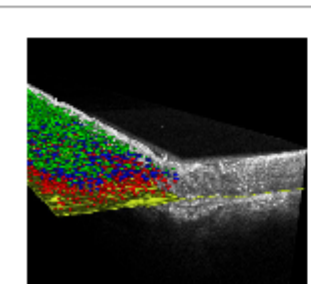
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:: Upcoming Webinars

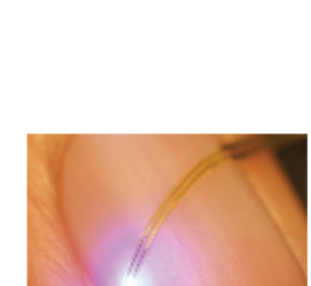


Technical Advancements in Line-Field Confocal Optical Coherence Tomography for Improving the Management of Skin Cancer

Tue, Feb 28, 2023 10:00 AM - 11:00 AM EST

Line-field confocal optical coherence tomography (LC-OCT) is an imaging technique based on a combination of reflectance, horizontal microscopy and time-domain OCT. It can generate dimensional, vertical cross-sections, horizontal cross-sections, and three-dimensional (3D) images, yielding the possibility for optical biopsies of skin tissue in vivo and in real time. Jonas Ogien, Ph.D., of DAMAE Medical introduces the basic principles of LC-OCT and shares an overview of new technical advancements based on the technique.

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Soft Optical Systems as Biointegrated Technologies: From Biological Research to Clinical Health Care

Tue, Mar 7, 2023 1:00 PM - 2:00 PM EST

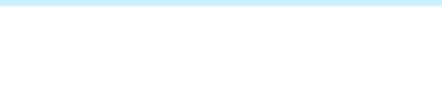
Advanced optoelectronic systems that can intimately integrate with soft living tissues have the potential to accelerate progress in biological research and to serve as the foundations for new approaches in patient care. John Rogers, Ph.D., of Northwestern University describes foundational concepts in optics, device physics, and manufacturing processes for these types of technologies, along with examples of commercialized systems for neuroengineering and patient monitoring.

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