





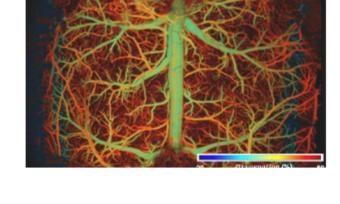
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Imaging A photoacoustic imaging tool accommodates the need for speed and

Photoacoustic System Enables Real-Time Neurovascular

comprehensive detail in neurovascular imaging. The imaging modality enables an approach to visualize whole-brain hemodynamics and oxygenation in real time. It also tracks fast pathophysiological activities at the micro-vessel level. The approach breaks speed and resolution barriers in brain imaging technologies, and could lead to insights into stroke, dementia, and acute brain injury. Read Article

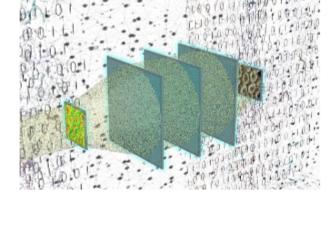




Imaging A team of researchers led by Aydogan Ozcan from the Electrical and Computer Engineering Department and California Nanosystems

Diffractive Optical Network Supports Quantitative Phase

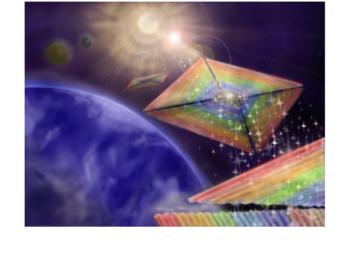
Institute at UCLA has developed a diffractive optical network to replace digital image reconstruction algorithms used in quantitative phase imaging (QPI) systems. The technology uses a series of passive optical surfaces that were spatially engineered with deep learning. Read Article



demonstration mission with potential to advance space travel beyond

Diffractive Solar Sail Project Gets Green Light at NASA NASA has selected a solar sail concept for development toward a

what is currently possible. The Diffractive Solar Sailing project was selected for Phase III study under the NASA Innovative Advanced Concepts (NIAC) program. Phase III aims to strategically transition NIAC concepts with the highest potential impact for NASA, other government agencies, and commercial partners. Read Article



New USB3 Industrial **Cameras with Many**

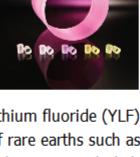
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IDS Imaging Development Systems GmbH IDS Imaging Development Systems is introducing

Housing Variants

new uEye+ models with USB3 interface and Vision Standard compatibility, integrating popular Sony sensors from 1.6 to 6.4 MP. You can request design-in samples as of now. As known from the current uEye LE cameras, the new models are also characterized by their diverse housing options. Visit Website Request Info



Northrop Grumman Synoptics

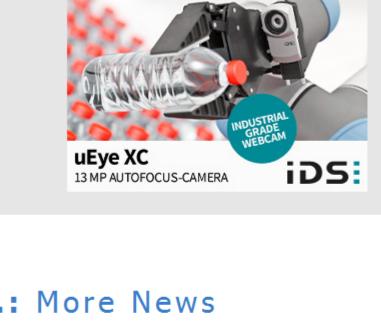
Rare-Earth Doped

Fluorides

lithium fluoride (YLF) crystals doped with a variety of rare earths such as Nd, Pr, Tm, Yb, Er, and Ho.

SYNOPTICS provides yttrium

Advantages include low beam divergence, efficient single-mode operation, weak thermal lensing, and naturally polarized light. Large boule growth technology allows for uniform large diameters (up to 100 mm) and lengths (up to 175 mm). Visit Website Request Info



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International trade

fair for laser

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Designs, Faster

long wavelength sources and helps determine which tools are appropriate for different applications. While there are many

considerations that can significantly impact the laser process, an understanding of performance qualities can ensure users see successful outcomes. Presented by Ophir. Laser Measurement Solutions for Materials Microprocessing Applications

Wed, Jun 15, 2022 11:00 AM - 12:00 PM EDT

Mark Slutzki, a product manager at Ophir, shares innovative solutions for the challenges that accompany materials microprocessing applications. Those who use lasers in these applications, such as drilling via holes in PCBs, organic LED display lift-off, and cutting smartphone cover glass, are faced with many challenges. While the combination of laser parameters enables new and innovative processes, they can also cause unexpected damage to the measurement tools used to keep the process stable. These

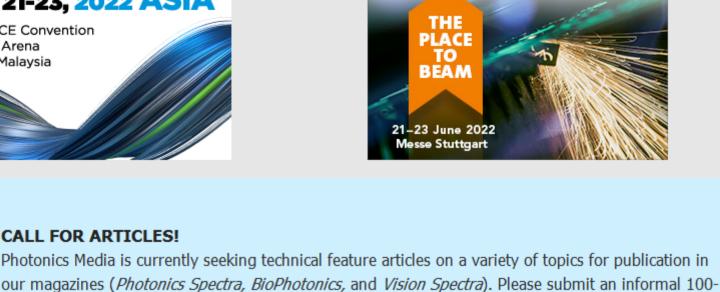
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parameters include ultra-short pulse duration, high repetition rates, short wavelengths, and many others. Sponsored by

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