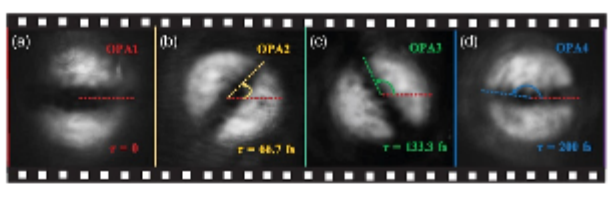
Thursday, October 1, 2020

This Week in PHOTONICS

PHOTONICS MEDIA photonics.com

.: Top Stories

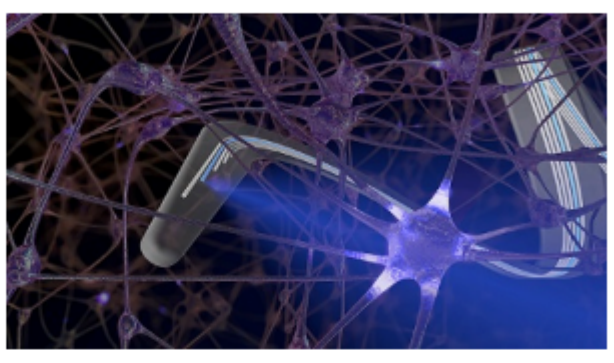
All-Optical Ultrafast High Spatial Resolution Camera Reaches 15 Trillion Frames per Second



An all-optical ultrafast imaging system developed by scientists at Shenzhen University has reached 15 trillion frames per second. The system is useful for visualizing ultrafast phenomena such as femtosecond laser ablation, ignition for nuclear fusion energy systems, shockwave interactions in living cells, and certain chemical reactions.

Read Article

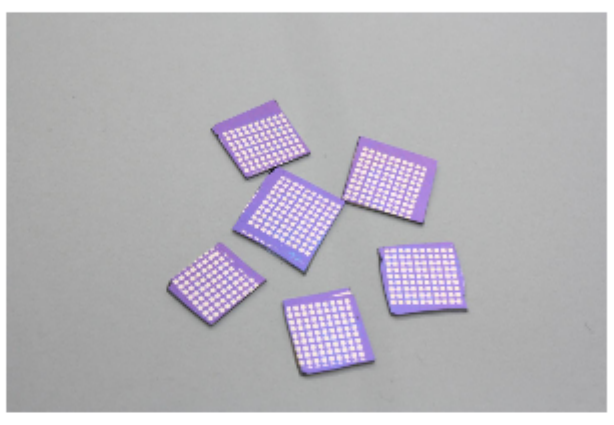
Flexible Parylene Waveguide Operates over Broad Spectrum



A parylene-based waveguide has the physical characteristics necessary to enable it to emerge as the new standard in optical biointerfaces. Researchers at Carnegie Mellon University developed the highly flexible waveguide, which can additionally operate over a broad spectrum of light. The device answers demand for miniaturized, flexible optical tools for reliable ambulatory and on-demand imaging in the body.

Read Article

Photodetector Sees Full Spectrum in Thin, Compact Construction



Researchers at RMIT University (Australia) introduced a hyper-efficient broadband photodetector capable of imaging all shades of light between the UV and near-infrared ranges, and that is at least 1000× thinner than existing commercially available photodetection devices. The construction of the prototype featured a single nanothin layer on a chip.

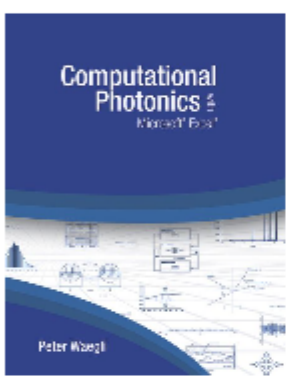
Read Article

.: Featured Products

Auction: Equipment/Patents - AR Headsets!

R.J. Montgomery & Associates
Online Auction Ending October 13th. Equipment and Patents for making AR Headsets. Visit www.rjmauctions.com for more information, photos and to bid!

Visit Website **Request Info**



Computational Photonics with Microsoft® Excel®

Photonics Media
This book shows how Excel — readily available on almost every computer — can be used to study photonics problems and to design, analyze, and optimize photonics applications.

Visit Website **Request Info**

.: More News

Arthur Ashkin, Nobel Laureate and Pioneer in Optical Trapping, Dies at 98 Read Article

'Firefly' Imaging Technique Sheds Light on Molecular Forces Read Article

Researchers Produce Fisheye Metalens Read Article

Verifying Whisky's Authenticity Without Spilling a Drop Read Article

Fraunhofer Leads £10M Effort to Advance Quantum Tech Read Article

.: Upcoming Webinars

Intelligent Motion Systems Based on Fast Optimization Algorithms and Hexapod 6-Axis Mechanisms
Thu, Oct 8, 2020 1:00 PM - 2:00 PM EDT
Learn how to solve complex multi-axis precision positioning and motion applications in fields such as photonics, optics, metrology, test & measurement, micro-assembly, motion simulation and stabilization. In this webinar, Dr. Michael Oldenburg and Dr. Christian Rudolf of PI (Physik Instrumente) will introduce intelligent motion systems based on fast optimization algorithms and 6DOF hexapod parallel kinematics platforms. This webinar is presented by PI.

Register Now

CALL FOR ARTICLES!
Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra, BioPhotonics, Vision Spectra,* and *EuroPhotonics*). Please submit an informal 100-word abstract to editorial@Photonics.com, or use our online submission form.