





Shortwave Infra, Broadband Spectrum Solution Provider State-of-the-Art of Customized Service and Simulation WANT A QUOTE

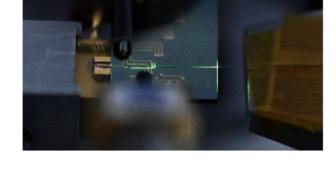
.: Top Stories

of Metamaterials

from Damage

Researchers from the City University of New York (CUNY) Graduate Center and the California Institute of Technology (CalTech) have shrunk a mode-locked laser (MLL) to the size of an optical chip with an integrated nanophotonic platform. The results show promise for developing ultrafast nanophotonic systems for a wide range of applications. Read Article

Mode-Locked Laser Made to the Size of an Optical Chip

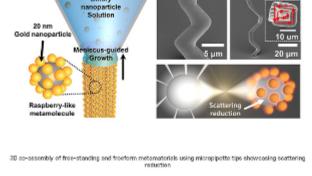




Researchers at the Pohang University of Science and Technology developed a method for 3D co-assembly of freestanding and freeform

3D Printing and Co-Assembly Smooth Path to Broader Use

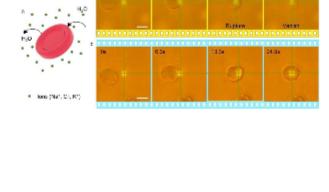
metamaterials using micropipette tips showcasing scattering reduction. The method surpasses limitations of existing metamaterial fabrication processes by enabling design and implementation of freeform nanophotons. Read Article



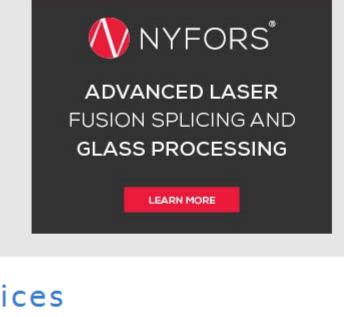
Researchers at the University of Texas at Austin (UT) developed a way to overcome the intense laser heating that causes optical tweezers to

Low-Power Optical Tweezers Shield Trapped Bioparticles

scorch biological objects. The approach, called hypothermal optothermophoretic tweezers (HOTTs), achieves low-power — and noninvasive — trapping of diverse biological cells and colloids in their native fluids. The tweezers combine environmental cooling and localized laser heating to realize low-power, thermophoretic trapping of target objects, while simultaneously avoiding optical and thermal damage. Read Article







MKS/Newport

ODiate™ Optical Filters

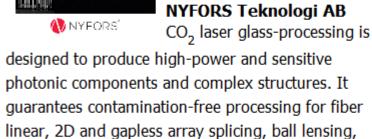


ODiate™ high-performance optical filter coatings are

coating platform and are designed to deliver a high level of precision, productivity, and consistency of

spectral performance. Discover how ODiate optical filters can enable high signal to noise system performance, low crosstalk between channels, and repeatable spectral feature placement for your sophisticated optical systems. Request Info Visit Website

Difficult Coatings



CO₂ Laser Glass-

Processing

end-capping, and many other challenging processes. Visit Website Request Info

OHARA



Made Possible



AFRL Unveils Laser Lab at Kirtland AFB Read Article Computing Firm Photonic Collaborates with Microsoft, Adds Financing Read Article

BlueHalo Adapts High-Energy System for Joint Light Tactical Vehicle Read Article

Targeted Photoresist Helps Meet Demand for Smaller Chips Read Article

Photonics Executives Outline Plans for Bolstered EU PICs Supply Chain Read Article

SPIE PHOTONICS
WEST 27 January - 1 February 2024

San Francisco, California, USA

Register Today

PLAN TO ATTEND

The Moscone Center

Upcoming Webinars The Etendue Mystery Revealed Tue, Nov 28, 2023 10:00 AM - 11:00 AM EST



Ensenso C

3D camera with an eye

optical designer toward finding effective optical solutions.

Design and Optimization of Optical Waveguides Thu, Nov 30, 2023 2:00 PM - 3:00 PM EST

Optical waveguides are important building blocks for many optical devices and systems. Well-known applications range from basic optical fibers to more complex multiphysical components, such as integrated optical modulators and semiconductor optoelectronic devices for telecommunication. Moreover, waveguide devices are widely used for optical sensing and high-quality fiber laser light sources. This webinar shares about modeling optical waveguides using the Wave Optics Module, an add-on to COMSOL

analysis of mode fields and propagation constants, and the modeling of wave propagation along optical waveguides. A representative from COMSOL introduces multiphysics couplings and shows optimization strategies while also sharing how to build and maintain custom simulation apps based on specific models, for use by colleagues or customers. Presented by COMSOL. Register Now

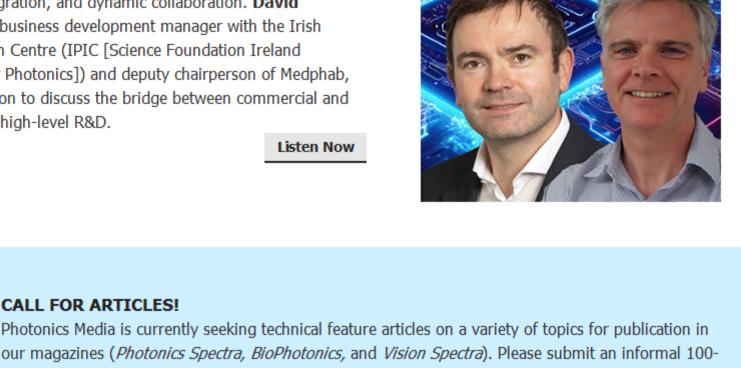
Multiphysics®. It covers topics such as the construction of complex waveguide structures using basic waveguide parts, the

Register Now

.: All Things Photonics

overviews the current state of integrated photonics technologies, as well as core considerations in the sector. Focus is given to packaging, heterogeneous integration, and dynamic collaboration. David **McGovern**, senior business development manager with the Irish Photonic Integration Centre (IPIC [Science Foundation Ireland Research Centre for Photonics]) and deputy chairperson of Medphab, joins the conversation to discuss the bridge between commercial and industry needs and high-level R&D. Listen Now

Peter O'Brien, director of the PIXAPP Photonics Packaging Pilot Line and head of the photonics packaging group at the Tyndall Institute,





word abstract to editorial@Photonics.com, or use our online submission form.







We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member of our website, Photonics.com. You may use the links below to manage your subscriptions or contact us.

Reproduction in whole or in part without permission is prohibited.