

This Week in PHOTONICS



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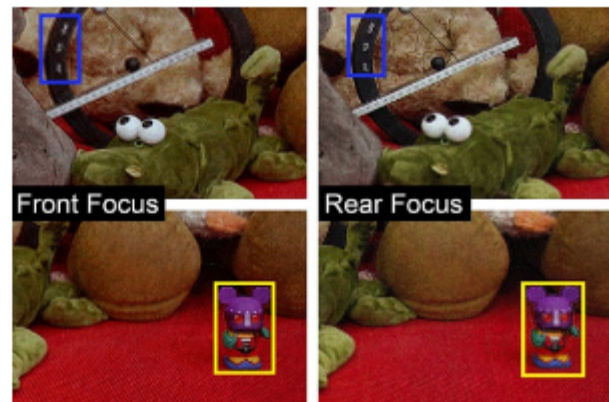


:: Top Stories

AI Aids in Generation of Real-Time 3D Holograms

A method for generating holograms uses an artificial intelligence program that a consumer-grade laptop is capable of running, giving implications in VR and 3D printing. A team at MIT introduced the method, which generates holograms almost instantly. The process of generating holograms via computer typically necessitates a supercomputer device to run the necessary physics simulations.

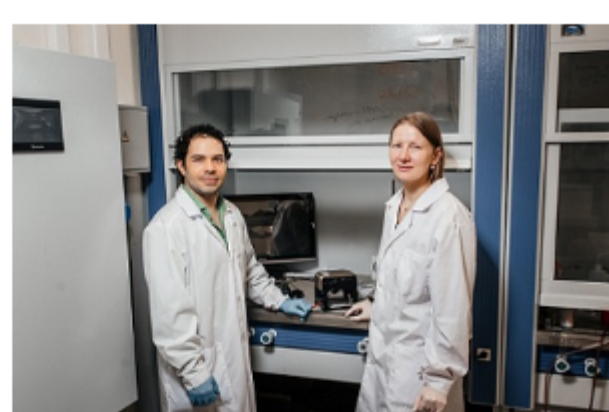
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Laser Method Efficiently Formulates Strong Materials for Flexible Electronics

A method that integrates metals into polymers for the formation of electrically conductive composites uses laser pulses to irradiate aluminum nanoparticles onto polyethylene terephthalate (PET) substrates. Researchers from Tomsk Polytechnic University (TPU), with international collaborators, formulated the laser-driven integration method, which has implications for flexible electronics.

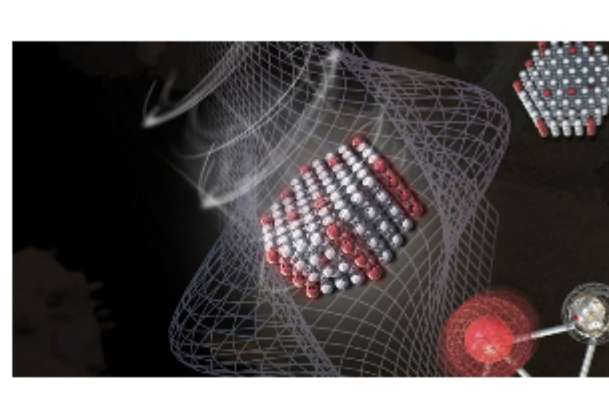
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Optical Tweezing Inspires Low-Power, Less-Invasive Nanoscopic Trapping Method

Researchers from the University of Technology Sydney (UTS) have deployed the existing principles of optical tweezer technology, which enables the manipulation and assemblage of nanoparticles, as a base for a technique that allows them to manipulate particles possessing the same refractive properties as those of the background environment in a given setting.

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:: Featured Products



Optical Biomedical Imaging

Photonics Media
At last, a reference work has been compiled that offers in one place a broad survey of technologies, applications and markets for optical

biomedical imaging, as only Photonics Media could produce it. This collection is a practical resource for those engaged in the research and development of relevant technologies...

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Optical Filters for Covid Testing

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instruments have various uses in medical diagnostics, including the detection of infectious diseases such as Covid-19. Our optical filters are all designed for the next generation of PoC instruments and they have been used in clinical applications in the biotech, biomedical, and drug discovery sectors.

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:: More News

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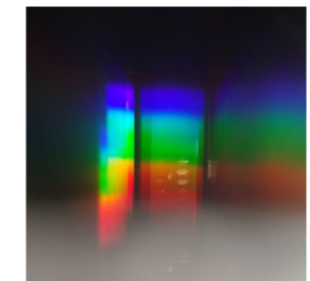
Algorithmic Training Technique Aims to Democratize Deep Learning-Enhanced Microscopy [Read Article](#)

South Africa Unveils Photonics Prototyping Facility [Read Article](#)

SCD to Lead Israeli National Consortium on VCSEL Development [Read Article](#)



:: Upcoming Webinars



Characterization of Light Emitters and Detectors from the Visible to the Terahertz Spectral Range

Tue, Mar 30, 2021 1:00 PM - 2:00 PM EDT

In this webinar attendees will receive an overview of experimental hardware and different approaches for detector testing and emission studies in multiple spectral ranges. Speakers include Sergey V. Shilov, Ph.D., senior application scientist at Bruker Optics, Yuzhe Xiao, Ph.D., research associate at the University of Wisconsin-Madison, and Mikhail Kats, Ph.D., Jack St. Clair Kilby Associate Professor in Electrical and Computer Engineering at the University of Wisconsin-Madison. Presented by Bruker Optics.

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Photonics Entrepreneurship Series: Selling New Technology, Challenges & Best Practices

Thu, Apr 8, 2021 1:00 PM - 2:00 PM EDT

This webinar with Bruce Forman of QED Technologies will take attendees through the most common challenges associated with photonics industry start-ups. Forman will explain the concept of "effective entrepreneurship" and offer techniques for optimizing business practices toward finding and working with new customers for selling photonics technologies.

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:: All Things Photonics

2019 President of The Optical Society and Fulbright Scholar Ursula Gibson details her latest work with novel core optical fibers and their function in expanding applications spanning metrology, optical communication and optoelectronics. Nicking Hetrolo, founder and CEO of supercomputing company Lightmatter, talks about silicon-driven advances in all-optical computing and Lightmatter's photonic computing platform.

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