Thursday, August 13, 2020

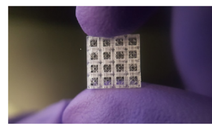
This Week in PHOTONICS

PHOTONICS MEDIA photonics.com

.: Top Stories

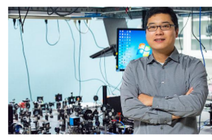
3D Printing Provides Building Blocks of Healing
A group of researchers has demonstrated that assembling a network of tiny, approximately 1.5-mm^3 blocks with the aid of optical technology can be an effective way to accelerate healing in tissue and bone. Using Lego blocks as inspiration, they even learned that filling these blocks with different materials could direct specific healing to where it was needed most.

Read Article



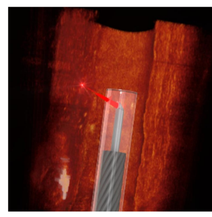
Photonic Integrated Circuit Chip Pairs with Metasurfaces to Retain and Improve Light Controllability in Optical Devices
A team of researchers at Penn State has integrated metasurfaces onto a photonic integrated circuit (PIC) chip. The design maintains high light controllability, allowing guided waves inside the PIC to drive the metasurfaces, enabling routing light among different metasurfaces.

Read Article



Researchers Miniaturize Imaging Device Using 3D Microprinted Camera Lens
Researchers from the University of Adelaide and the University of Stuttgart have developed an ultrathin endoscope small enough to scan images from inside the blood vessels of mice. In humans, the scope will help scientists better understand causes of heart attack and disease progression and, subsequently, methods for treatment and prevention.

Read Article



.: Featured Products

DL Series Optical Delay Line Linear Stages

MKS/Newport
The DL Series is an affordable linear motor driven stage designed for delay lines. These stages are optimized for ultrafast spectroscopy applications that require repeatable and precise delays, such as pump-probe, interferometry and 2DIR. With travels of 125, 225 and 325 mm, DL Series stages cover almost all possible delays from femtosecond to nanosecond. The integrated motion controller and graphical user interface (GUI) make setup and operation easy.

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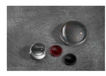

Molded Aspheric Polymer Lenses

Fresnel Technologies Inc.
Fresnel Technologies designs and manufactures orders large and small, from millions of parts to a single prototype. Our diamond-turning machines allow micro- and nanomachining of metal and polymer optics. We produce silicone lenses, microlens arrays, and AR/VR lenses. From conventional plastic lenses to freeform optics, from Fresnel lenses used in the visible spectrum, to passive IR optics for the Internet of Things, we make it all.

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.: More News

International Research Team Applies Metasurface Photonic Device Potential to Cold Atom Quantum Technology Read Article

In Race for Accelerated Testing, Seven NIH RADx Program Proposals Advance to Program Development Phase 2 Read Article

Jenoptik Down for Year's First Half, Reports $389.9M in Revenue Read Article

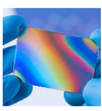
Coherent Profits Dip as Company Posts $298.3M in Revenue for Third Quarter Read Article

Femtosecond Lasers Etch Superwicking Metal Surface for Water Purification System Read Article

.: Upcoming Webinars

Principles and Applications of Light and Color Measurement
Wed, Aug 19, 2020 1:00 PM - 2:00 PM EDT
The properties of light that stimulate the eye and build our visual perception also guide the design of illuminated devices. In this webinar, the presenters will explain how manufacturers use photometric technology to best assess the visual quality of displays, backlit components, and light sources — as they are actually seen and experienced by users. Presented by Radiant Vision Systems.

Register Now



Mastering the Hidden Pitfalls of Metallic Coatings
Thu, Aug 20, 2020 1:00 PM - 2:00 PM EDT
Metallic mirror coatings are critical for countless optical systems, but they face challenges in terms of environmental stability and performance across multiple spectral bands. Learn about the hidden complexities of these coatings to help choose the right reflective optics to maximize the performance of your optical systems. This webinar is sponsored by Evaporated Coatings Inc. and Edmund Optics Inc.

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