Thursday, March 11, 2021

This Week in PHOTONICS

PHOTONICS MEDIA photonics.com

.: Top Stories

2021 Prism Awards Honor Photonics Innovations

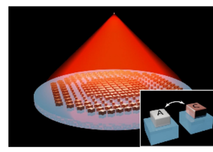
SPIE, the international society for optics and photonics, and Photonics Media have recognized top optics and photonics products on the market in the 2021 Prism Awards. The event, in its 13th year, honored winners in 10 competitive categories. For consideration of this year's awards, SPIE received 149 applications from 18 countries. Finalists and winners were selected by a panel of international judges that included leaders from both the technology commercialization and funding sectors.

Read Article

Metalens Uses Heat, Not Motion, to Shift Focus

A new metalens design developed by researchers at MIT, which is able to change its focus without tilting or moving forward or backward, may find use in miniature heat scopes for drones, ultracompact thermal cameras for cellphones, and low-profile night-vision goggles, its developers said. The lens technology uses heat to focus in on different objects, operating in the infrared band.

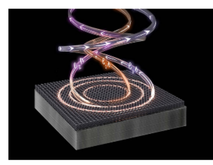
Read Article



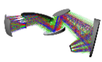
Optical Angular Momentum Shatters Data Ceiling

An optical antenna developed by researchers at the University of California, Berkeley, can, in principle, provide limitless bandwidth. The technology takes advantage of orbital angular momentum (OAM), a characteristic of light that enables multiplexing, or simultaneous transmission, exponentially greater than current technology.

Read Article



.: Featured Products



CODE V Optical Design Software

Synopsys Inc., Optical Solutions Group

Optical designers are often tasked with correcting more aberrations and using fewer surfaces for compact applications ranging from medical instruments to AR systems. To support this design work, CODE V offers unique freeform optics design and optimization tools. Read our blog to learn more.

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Helium Leak Detectors and Vacuum Pumps

Pfeiffer Vacuum Inc.

The Pfeiffer Vacuum ASM 340 is a high performance and durable leak detector providing short cycle times and high throughput. It is used for leak checking vacuum systems that are used in manufacturing of photonic devices and leak checking final hermetic sealed products.

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.: Upcoming Webinars

Smart Lens Actuator Design Securing Perfect Coaxial Lens Displacement over Full Stroke

Wed, Mar 24, 2021 1:00 PM - 2:00 PM EDT

MPS, the Swiss manufacturer of electromechanical microsystems, is presenting a new technology platform of dual lens actuator that solves the lens misalignment issue by design. This platform, which can easily be adapted to specific application requirements such as lens size, stroke and drive system, guarantees minimal deviation of unit-to unit performance in series production. Presented by MPS Micro Precision Systems AG.

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