

This Week in PHOTONICS



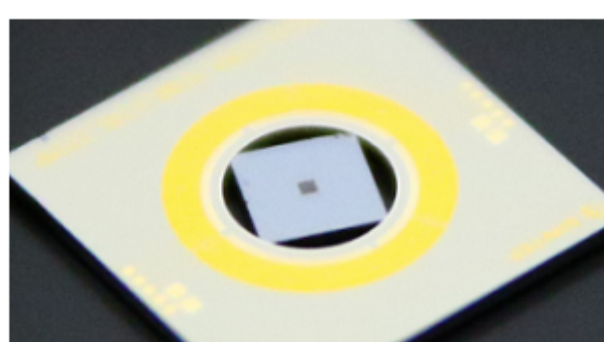
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.: Top Stories

Piezoelectric Thin Film Gives Metasurface Lens Tunable Focus

A research team from SINTEF Smart Sensors and Microsystems in Norway has created a metasurface lens that uses a piezoelectric thin film to change focal length when a small voltage is applied. Because it is extremely compact and lightweight, the lens could be useful for portable medical instruments, drone-based 3D mapping, and other applications bolstered by the miniaturization of components.



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Simple Camera Setup Enables 3D Human Shape Reconstruction

Researchers from Kaunas University of Technology (KTU) proposed a deep-learning-based method for the three-dimensional human shape reconstruction when the original figure is only partly visible. The method is relatively low cost, provides high compression of the images obtained, and is easily integrated with existing virtual reality tools. The method was developed using a real-world data set. A clinical trial is pending.



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Robot System Enhances Laser Diode Manufacturing

A robotic system developed by Scotland-based thin-film coatings and photonics company Helia Photonics, in collaboration with the University of the West of Scotland (UWS), greatly enhances the production of laser diode components used for medical diagnostics, vision systems for self-driving vehicles, aviation, space, and forensic science.



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The NYFORS SMARTSPLICER

NYFORS Teknologi AB
CO2 laser glass-processing is designed to produce high-power and sensitive photonic components and complex structures. It guarantees contamination-free processing for fiber array splicing, ball lensing, end-capping, and many other challenging processes.

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Optical Filters for Point of Care

Delta Optical Thin Film A/S

Point of Care (PoC)

instruments have various uses in medical diagnostics, including the detection of infectious diseases such as Covid-19. These types of tests only require a single drop of blood, saliva, or urine and can be performed by a GP within minutes.

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.: Upcoming Webinars



Emerging Technologies Changing Ophthalmology Access and Point of Care

Thu, Mar 17, 2022 10:00 AM - 11:00 AM EDT

This webinar — for those interested in visual optics, ophthalmology, and biomedical devices — introduces five technologies that are using optics, photonics, or imaging to redefine how patients are served along the point-of-care continuum, from diagnosis and treatment to surgical selection and correction. It also showcases how technologies are being applied to make tools more mobile and accessible, minimize workflows, and reduce the risks associated with COVID-19 to significantly improve both the patients' and the practitioners' experience. Presented by Luminat.

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