This Week In

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A podcast from Photonics Media

Meta-Hologram Optical Device Operates in Forward and

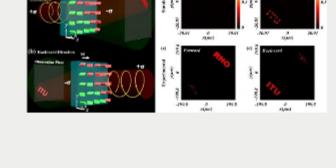
Top Stories

Backward Directions A multifunctional meta-hologram design, developed by researchers at

Pohang University of Science and Technology, can be used to create different hologram images depending on the direction of the incident light that falls on the device. Conventional meta-holograms can display images when the incident light falls in one direction only.

Time is critical when diagnosing sepsis, but the tests currently used to

identify this disease can take up to 72 hours. Researchers at the



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Laboratory of Bionanophotonic Systems at École Polytechnique Fédérale de Lausanne have developed an optical biosensor that reduces sepsis diagnosis time from several days to a few minutes.

3 A B Read Article First Images from Inouye Solar Telescope Provide Detailed Look at Sun The first images from the National Science Foundation's Inouye Solar



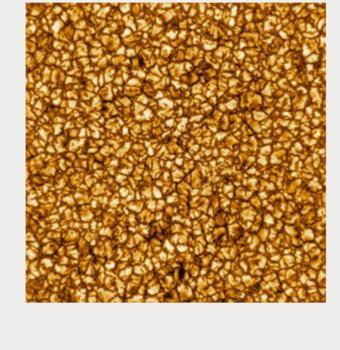






Telescope show a close-up view of the sun's surface, detailing a pattern

of turbulent plasma that covers the entire sun. The telescope can image a region of the sun 38,000 km wide, and the images reveal the smallest features ever seen on the solar surface, some as small as 30 km.



Featured Products

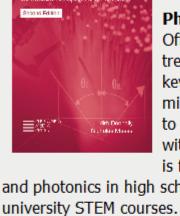
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LIGHT: Introduction to Optics and Photonics, Second Edition LIGHT



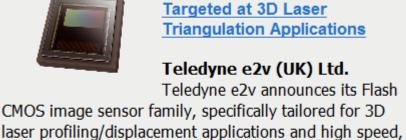
Offering a comprehensive treatment of the subject as well as

key applications, and employing

Photonics Media

minimal math, LIGHT: Introduction to Optics and Photonics was written with readers in mind. This textbook is for beginning students of optics and photonics in high school, community college, and Request Info Visit Website

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Teledyne e2v (UK) Ltd. Teledyne e2v announces its Flash CMOS image sensor family, specifically tailored for 3D

New CMOS Sensor Family,

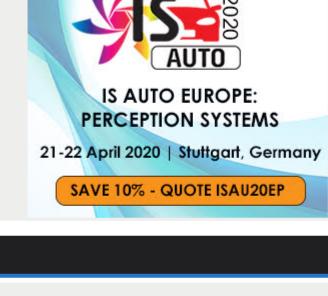
Triangulation Applications

Targeted at 3D Laser

a 6 µm CMOS global shutter pixel which effectively combines high resolution and fast frame rate. Visit Website Request Info

high resolution inspection. The new Flash sensors feature



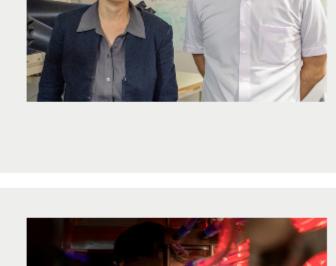


A new stress-detecting polymer that shines brighter when stretched could be used to measure the performance of synthetic polymers and

track deterioration in materials that are used in engineering and construction. Scientists from the Okinawa Institute of Science and Technology Graduate University integrated copper complexes (copper

atoms linked to organic molecules) into the polymer polybutylacrylate.

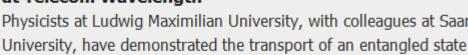
Long-Distance Distribution of Atom-Photon Entanglement



at Telecom Wavelength Physicists at Ludwig Maximilian University, with colleagues at Saarland



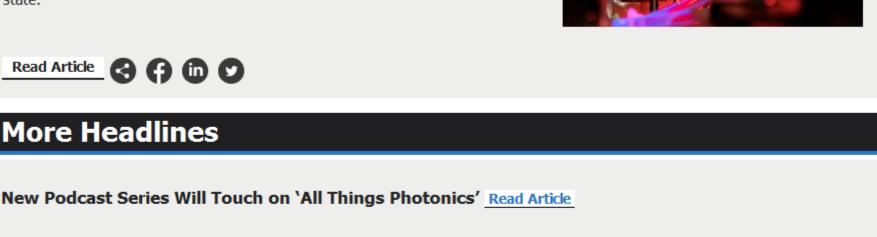




state.

between an atom and a photon via an optical fiber over a distance of up to 20 km. According to the researchers, this is a new record for distance traveled by an atom and a photonic channel in an entangled

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Industry Events





Global BioImaging Receives \$1.3M to Advance Biomedical Imaging Read Article US Department of Energy Will Fund Up to \$625M for Quantum Information Centers Read Article

February 15-20, 2020 - Marriott Marquis Houston - Houston

diagnosis, perception, image-guided procedures, biomedical

At SPIE Medical Imaging 2020, leading researchers will present the latest information on image processing, physics, computer-aided

applications, ultrasound, informatics, radiology, and digital pathology. This year's conference will also focus on emerging technologies like deep learning, artificial intelligence, and machine learning. Over 1000

SPIE Medical Imaging 2020

NY-Based Research Team to Collaborate on Quantum Research Read Article

papers will be presented across nine conferences. A live demonstration workshop will take place on Sun., Feb. 16 and will include all nine conferences. More Info Webinars Machine Vision System Design and Integration: Challenges and Trends



Wed, Feb 19, 2020 12:00 PM - 1:00 PM EST This webinar will help you develop a plan for your machine vision

quality on the factory floor. It will discuss traditional versus deep learning systems, and when to use deep learning techniques. You will learn what to focus on when you have limited time to evaluate a

system that will ensure reliability, repeatability, standardization, and

system; how and when to choose a system integrator; how to quantify performance during testing; and how to build flexibility and adaptability into your system so it will serve you well for years to come. Sponsored by Teledyne DALSA, Euresys SA, Allied Vision Technologies GmbH, and IDS Imaging Development Systems GmbH. Register Now CALL FOR ARTICLES

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