Thursday, July 04, 2019

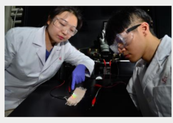
This Week In PHOTONICS
PHOTONICS MEDIA

Top Stories

Luminate NY Accelerator Announces Round II Winners
Ovitz Corp., the developer of individualized contact lenses to improve vision quality, took the top prize at the Luminate NY competition — $1 million. The Round II winners were announced on June 27 during the Light and Sound Interactive conference at the CGI International Jazz Festival in Rochester, N.Y.

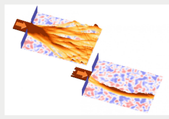
Read Article

Washable Electronic Textiles Can Activate LEDs and Detect Electrocardiogram Signals
A transistor fiber for use in wearable electronics has been developed by researchers at the Korea Institute of Science and Technology (KIST). The transistor, which has the characteristics of a textile, can be inserted into clothing and retain an adequate level of functionality even after multiple washings.



Read Article

Scientists Shape Light to Travel Along a Single Branch
Scientists at the Vienna University of Technology showed how the branched flow of light can be made to propagate along a single branch rather than along many branches at the same time. Their approach, which they think could be applied to different types of waves, from scalar to vector and from two to three dimensions, is based on shaping the incoming wavefront.



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Featured Products

The New Collar Workforce
Photonics Media
U.S. manufacturing companies are expected to face a shortage of two million skilled workers by the year 2020, according to reports. As a result, manufacturers and educators are looking for real, actionable ideas to train workers, reduce the shortfall and realize the potential of the new age of manufacturing.

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LIGHT: Introduction to Optics and Photonics, Second Edition
Photonics Media
Offering a comprehensive treatment of the subject as well as key applications, and employing 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 university STEM courses.

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More News

Prototype Could Be Used to Connect Quantum Computers
Physicists from the Institute of Science and Technology Austria used a mechanical oscillator to produce entangled radiation. According to the research team, this is the first time a mechanical object has been used to create entangled radiation.

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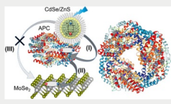
Scientists Look to Plants to Increase Solar Panel Efficiency
Scientists from Brookhaven National Laboratory and Stony Brook University have assembled a nanohybrid structure that contains both biologically derived and inorganic materials. The researchers combined a light-harvesting protein from a cyanobacteria with quantum dots and a 2D semiconducting transition metal only one atomic layer thick.



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Space Is Filling Up for the AIM Photonics Summer Academy Read Article

National Photonics Initiative Chairman Ed White Leads TAP Facility Tours at LSI 2019 Read Article

AR VR Track at Light and Sound Interactive 2019 Looks to Future Read Article

IR Imaging Technology Could Improve Breast Cancer Detection Read Article

Industry Events

OSA Nonlinear Optics 2019
July 15-19, 2019 - Waikoloa Beach Marriott Resort & Spa - Waikoloa Beach United States
Nonlinear optical phenomena play a key role in many photonics applications and are now studied and applied over a wide range of energies and powers and over broad spectral ranges. New advances are arising in high-field areas and quantum nonlinear optics. Thanks to cross-fertilization with fields like machine learning and medicine, new applications for nonlinear optics are emerging. This meeting will provide an international forum for the discussion of all these aspects of nonlinear optics, including new physics, advanced materials, novel device concepts, and applications. Image courtesy of OSA, The Optical Society.

More Info

Webinars

Keys to Success with Vision-Guided Robotics
Tue, Jul 16, 2019 1:00 PM - 2:00 PM EDT
Industry leader David Dechow will present practical methods to successfully integrate conventional vision-guided robotic (VGR) applications into machine vision systems. He will discuss some cutting-edge VGR applications, the challenges they present, and the potential advantages they offer. He will provide examples of the products that are being used successfully in VGR, including robots, cameras, and software and will conclude with a discussion of machine vision technologies that could be key to expanding the future use of VGR. This webinar is sponsored by Photoneo; Teledyne DALSA; and Integro Technologies Corp.

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