

This Week In PHOTONICS

PHOTONICS MEDIA



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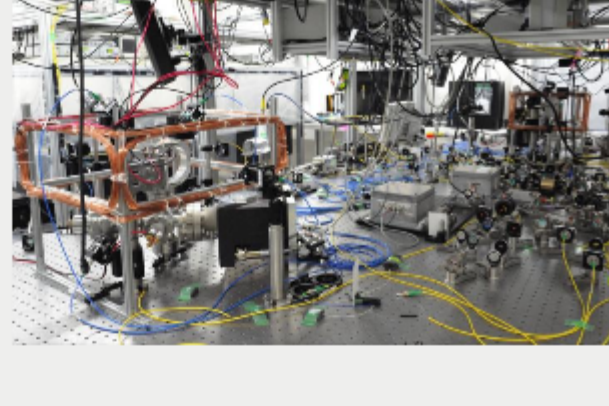


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Top Stories

Low-Loss, All-Fiber System Supports Coupling Between Distant Atoms

A team of scientists from Waseda University, the Japan Science and Technology Agency, and the University of Auckland developed an integrated, all-fiber coupled-cavities quantum electrodynamics (QED) system, in which a meter-long portion of conventional optical fiber seamlessly and coherently connects two nanofiber cavity-QED systems.



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In New Material, Color and Thermal Properties Can Be Tuned Separately

Researchers at the Massachusetts Institute of Technology (MIT) have optically engineered a polymer material to allow its color and thermal properties to be tailored independently of each other. The new films simultaneously provide light weight, conformability, either visual coloring or transparency on demand, and passive thermal management through conduction and radiation.



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New Glass Family Demonstrates High Refractive Index, UV-Shielding Properties

A novel composition of germanosilicate glass, created by adding zinc oxide, has properties that could be valuable for lens applications. Samples of the glass demonstrated a high refractive index, comparable to that of pure germania glass. The samples also showed high transparency, good UV-shielding properties, and good glass-forming ability.



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Featured Products



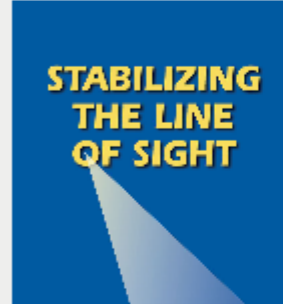
Ultima 2Pplus Multiphoton Imaging

Bruker Nano Surfaces

With new advances in field of view, sensitivity, wavelength, and sample accommodation, Bruker's Ultima 2Pplus delivers the best

commercially available combination of flexibility, resolution, imaging depth, and speed, allowing users to perform simultaneous imaging, stimulation, and electrophysiology protocols with greater efficiency and effectivity.

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Stabilizing the Line of Sight

Photonics Media

In *Stabilizing the Line of Sight*, authors Peter J. and Rhonda L. Kennedy provide a methodology and an example for executing a successful end-to-end line-of-sight (LOS) design. Comprehensive in scope, this book will give readers a better understanding of the relationships between the various engineering disciplines that are required for successful LOS control.

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More News

LIGO, Virgo Begin Another Yearlong Observation Run for Gravitational Waves

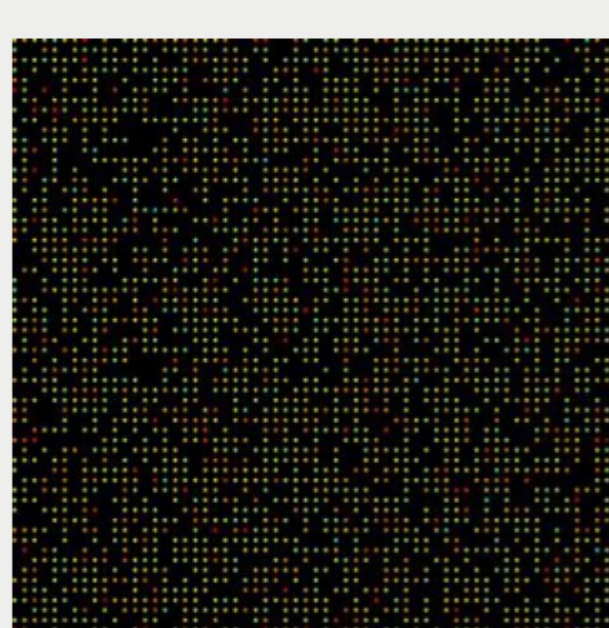
The LIGO and Virgo laser interferometer gravitational-wave observatories in the U.S. and Italy have begun a third yearlong observation run with the hope of yielding new astronomical observations. This current run comes just three years after the first detection of gravitational waves (GW).



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Photoacoustic Microscopy Used to Image Cancer Cells

Researchers at the California Institute of Technology (Caltech) are investigating ways in which to better image cancer cells by using photoacoustic microscopy (PAM), a technique that incorporates laser light to induce ultrasonic vibrations, which can then be used to image cells, blood vessels, and tissues.



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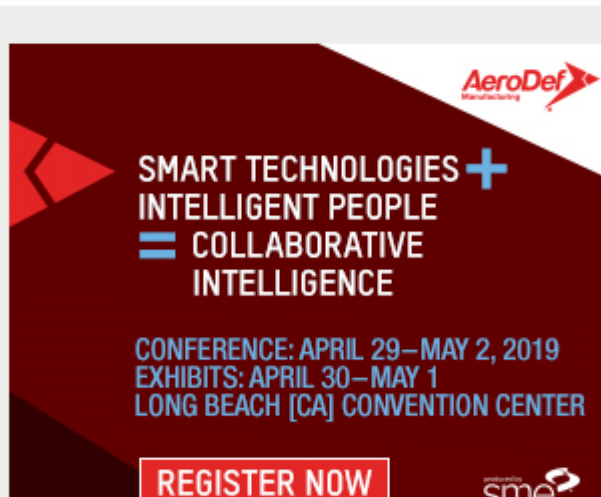
[Light-Activated Photodynamic Compounds May Eradicate Bladder Cancer](#) [Read Article](#)

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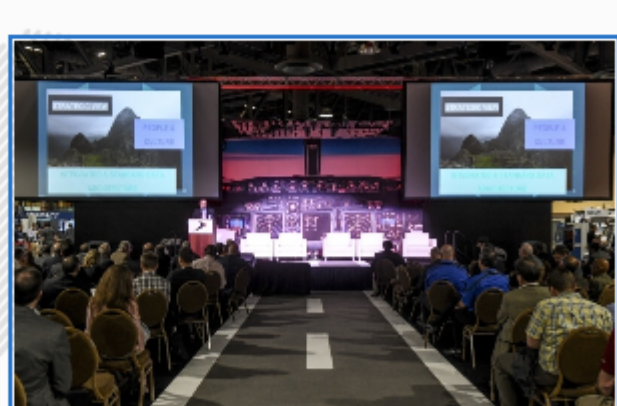


Industry Events

AeroDef Manufacturing 2019

April 29 - May 2, 2019 - Long Beach Convention Center - Long Beach United States

AeroDef Manufacturing is a conference and trade show for the aerospace and defense manufacturing industry. Produced by SME, in partnership with industry OEMs, the mission of the conference is to foster innovation across the extended enterprise to reduce costs, expedite production times and maintain manufacturing competitiveness in the global economy. The industry's leading showcase for the smart technologies and intelligent minds driving aerospace and defense, AeroDef is a must for suppliers, buyers, and other industry professionals eager to enhance their skills and learn from experts.



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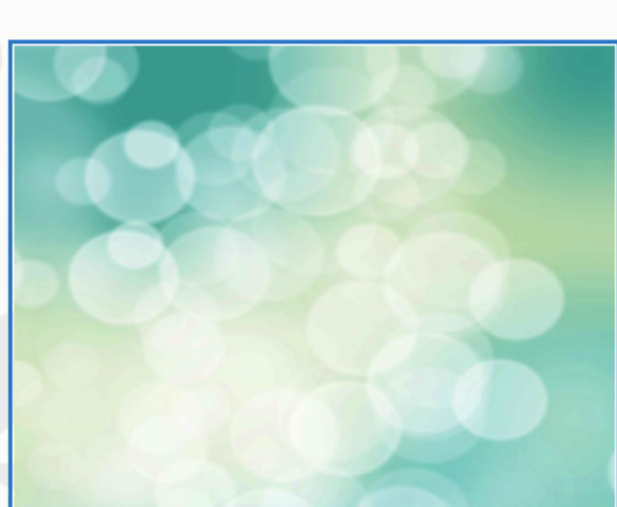
Webinars

Quantum Dots Are Making Displays Brighter and Photomedicine Better

Tue, Apr 23, 2019 1:00P EDT

In this webinar you will learn about the properties that make quantum dots (QDs) so desirable for displays, and the types of QD technologies that are most suitable for displays. It will cover strategies for implementing QDs in displays, challenges facing this technology, and QD-enabled displays in the future. In addition to displays, the use of electroluminescent (EL)-QD devices in photomedicine will also be discussed. This webinar is sponsored by Radiant Vision Systems.

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