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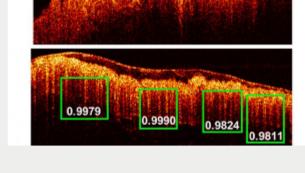
Meet the Editors Photonics West - Wednesday, February 5, 3:00 p.m. | Booth 658/659

Top Stories

Cancer Detection Researchers at Washington University in St. Louis are developing a

Machine Learning, OCT Combine for Early-Stage Colon

deep learning-based pattern recognition (PR)-OCT system that will automate image processing and provide accurate, computer-aided diagnosis of colorectal cancer potentially in real time. The technique combines OCT and deep learning to detect patterns in the images of normal and abnormal tissue samples.



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A new instrument called a quantum vacuum squeezer is helping LIGO

Squeezing Improves LIGO's Sensitivity to Quantum Noise

— the Laser Interferometer Gravitational-Wave Observatory — to detect gravitational wave signals nearly every week. Just a year ago, LIGO was picking up gravitational waves about once a month.

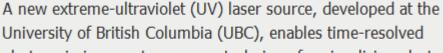


Quantum Materials









New Laser Technique Captures Dynamic Processes of

photoemission spectroscopy, a technique for visualizing electron scattering processes at ultrafast timescales.



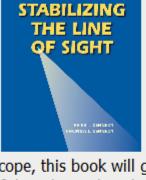
Featured Products







Stabilizing the Line of Sight



In Stabilizing the Line of Sight,

authors Peter J. and Rhonda L.

Photonics Media

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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SPIE.

Canon U.S.A. Inc., Industrial

(goniophotometer), is a compact, portable device capable of measuring 4 surface appearance conditions in a single pass: Gloss, Haze, Image Clarity (IC), and BRDF

(Bidirectional Reflectance Distribution Function). Additionally, Canon has released its own new parameter, "Scattering" parameter, overcoming the shortage of both IC and DOI (Distinctiveness of Image) when evaluating matte and textured surfaces as well as orange peel surface. Visit Website Request Info



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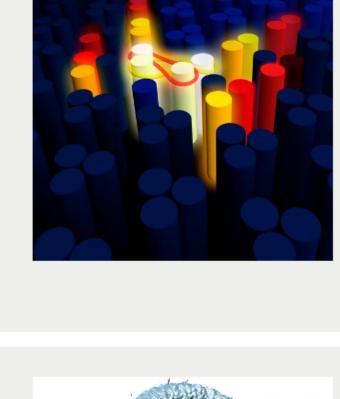


Higher-Order Topological States in Photonic Crystals Could **Lead to Faster Data Transfer** Research into topological photonic metamaterials, led by City College

change the behavior of lightwaves, forcing the waves to localize in space. The study further shows that by controlling the degree of these

of New York, shows that long-range interactions in metamaterials can

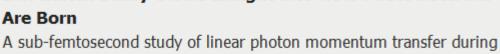
interactions, the character of the lightwaves can be switched from propagating to trapped.



ETH Zürich Study Offers Insight into How Photoelectrons Are Born

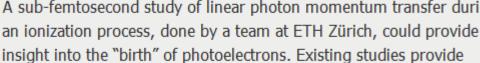
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information on time-averaged behavior, but not on the time-dependent

aspects of the linear-momentum transfer during photoionization.



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BiOS 2020

technologies and systems; biomedical spectroscopy, microscopy, and imaging; neurophotonics, neurosurgery, and optogenetics; tissue

program tracks: photonic therapeutics and diagnostics; clinical

February 1-2, 2020 - The Moscone Center - San Francisco

optics, laser-tissue interaction, and tissue engineering; and nano/biophotonics. Conferences will include: Diagnostic and Therapeutic Applications of Light in Cardiology; Photonics in Dermatology and Plastic Surgery; and more. More Info

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