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:: Top Stories

US Patent #2,929,922

In May 1960, Theodore Maiman revealed to the world the first successful demonstration of a laser at Hughes Atomic Physical Department in Malibu, Calif. However, the landmark event was achieved due to the foundation set in place by a pair of Bell Labs researchers two years earlier.

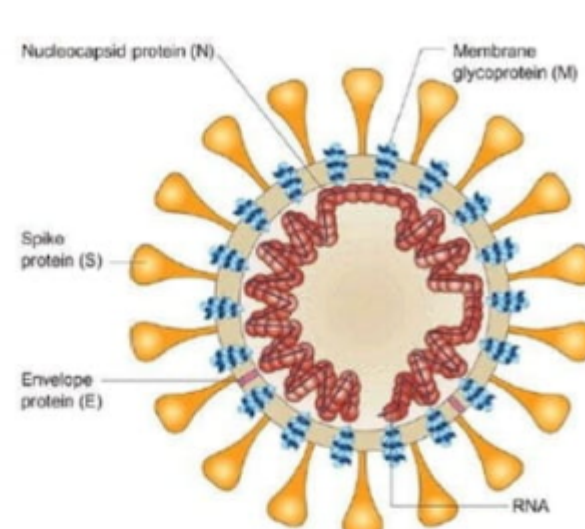
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Photocatalysis Could Be Used to Inactivate Coronaviruses

Rice University researchers plan to reconfigure their wastewater-treatment technology to capture and deactivate the virus that causes COVID-19. Their chemical-free nanotechnology, introduced earlier this year as a way to kill bacterial "superbugs" and degrade their antibiotic resistance genes in wastewater, will use graphitic carbon nitride to selectively adsorb viruses and then disable them by activating nearby catalysts with light.

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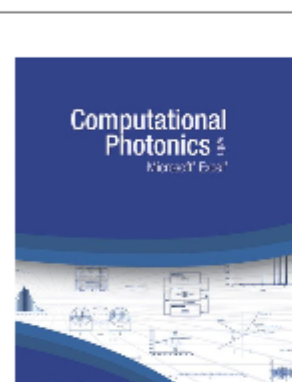
Copper-Based Material Could Lead to Inexpensive, High-Yield OLEDs

At the Paul Scherrer Institute (PSI), researchers have discovered a green luminescent substance that could enable OLEDs to deliver high light yields inexpensively and on a large scale. The researchers at PSI turned to the copper-containing compound CuPCP. Copper is a relatively inexpensive metal, and the compound CuPCP can be easily produced in large quantities.

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:: Featured Products



Computational Photonics with Microsoft® Excel®

Photonics Media
This book shows how Excel — readily available on almost every computer — can be used to study photonics problems and to design, analyze, and optimize photonics applications. Excel comes with all the necessary ingredients: a full range of mathematical functions, excellent graphics and user-interface...

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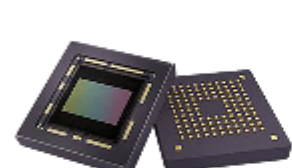


High-Power Components

OZ Optics Limited
OZ Optics uses the latest in fiber optic component manufacturing techniques to produce fiber products for high power lasers. Products include: Isolators Shutters/ Safety Interlocks Optical Tap/Power Monitors Patchcords/Connectors Collimators/ Focusers Mode Field Adaptor Cleaning Unit for High-Power Components.

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3.2M Sensor for Growing Applications

Teledyne e2v (UK) Ltd.

Teledyne e2v's new Emerald 3.2M CMOS image sensor is specially designed to tackle the challenges of emerging applications such as security, drones and embedded vision, as well as traditional machine vision. It features a 2.8µm global shutter pixel and has been designed with features such as multi-ROI and real-time HDR.

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HyperFine Brillouin Spectrometer

LightMachinery Inc.

The great challenge with Brillouin spectroscopy is that the scattered signal from the un-shifted wavelength of the laser can overwhelm the small Brillouin shifted return signal. LightMachinery has combined its leading-edge HyperFine spectrometer with a very narrow band tunable filter to suppress the bright un-shifted laser frequency.

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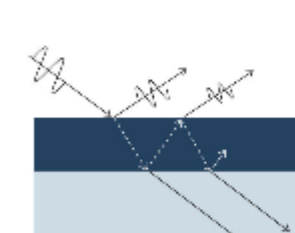
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:: Upcoming Webinars

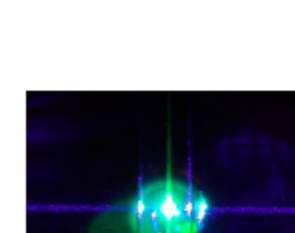


Ellipsometry: What Is It and What Can It Do for You?

Wed, May 13, 2020 1:00 PM - 2:00 PM EDT

Spectroscopic ellipsometry is a nondestructive technique that uses polarized light to probe a sample. In this webinar, presented by the J.A. Woollam Co., you will learn about the fundamental principles of ellipsometry, how these principles lead to highly accurate measurements of coating thickness and optical properties, and how ellipsometry measurements compare to other characterization techniques.

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Squeezing More Out of Light: Innovative Approaches to Time-Resolved Flow Cytometry

Tue, May 19, 2020 1:00 PM - 2:00 PM EDT

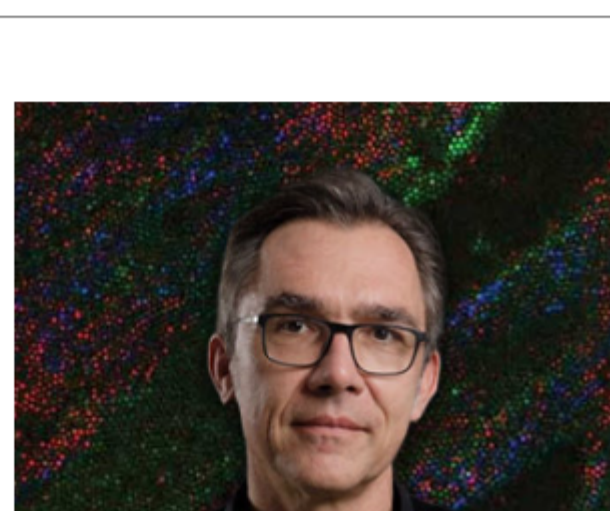
In this webinar, presenter Giacomo Vacca, Ph.D., founder and president of Kinetic River, will discuss recent advances in time-resolved methods of flow cytometry that have enabled the measurement of fluorescence lifetime in flow cytometry, and some of the novel applications that these advances enable. Sponsored by Hamamatsu Corporation.

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:: All Things Photonics

In this week's episode of *All Things Photonics*, Jürgen Popp discusses his research into Raman spectroscopy and early disease detection. Dr. Popp is the Scientific Director of the Leibniz Institute of Photonic Technology in Germany. His research focuses on the development and application of innovative linear and nonlinear Raman technologies for biomedical diagnosis.

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