Thursday, August 6, 2020

This Week in PHOTONICS

PHOTONICS MEDIA photonics.com

.: Top Stories

Mirror Specifications and Energy-Efficient Design Support Increasingly Portable System for Laser Precision at Room Temperature

A team of MIT physicists, working with researchers from Louisiana State University (LSU) and Crystalline Mirror Solutions (CMS, now part of Thorlabs Inc.) has designed a quantum "light squeezer" capable of limiting quantum noise in laser beams. The system retains the full range of quantum mechanical properties at room temperature.

Read Article

Researchers Create 2D-Material Photodetector for Telecom Wavelengths

Using a 2D material and an approach it calls "strainoptronics," a George Washington University research team created a photodetector that can operate with high efficiency at the wavelength of 1550 nm, a spectral region that offers low-loss transmission and optical gain.

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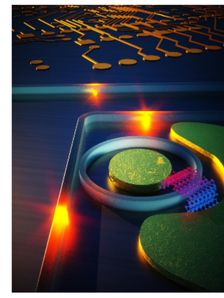

Tunable Laser Determines Best UV Wavelengths for Germ Eradication

While awaiting full access to their labs due to COVID-19 restrictions, scientists at the National Institute of Standards and Technology (NIST) have taken the time to report on research conducted in 2012 on the disinfection of drinking water using ultraviolet (UV) light. The research was published online in July 2020 by the Review of Scientific Instruments.

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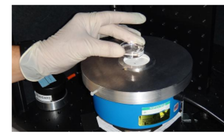

.: Featured Products

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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.: Upcoming Webinars

Practical 3D Imaging: An Overview

Tue, Aug 11, 2020 1:00 PM - 2:00 PM EDT

In this webinar, industry expert David Dechow will review the fundamentals of 3D imaging, with a focus on both mature and emerging technologies that are currently available. The discussion will include application examples in machine vision, computer vision, and consumer markets, and will conclude with an open question-and-answer session. This webinar is sponsored by LUCID Vision Labs, Inc. and Smart Vision Lights.

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