

This Week in PHOTONICS

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Top Stories

LED Lighting Enables 3D Imaging Via Smartphone

Strathclyde University researchers have shown that dynamically controlled LED room lighting enabled 3D imaging with consumer-grade digital cameras. In a smart factory setting, the technology could improve surveillance capabilities, giving robots an enhanced sense of their surroundings.

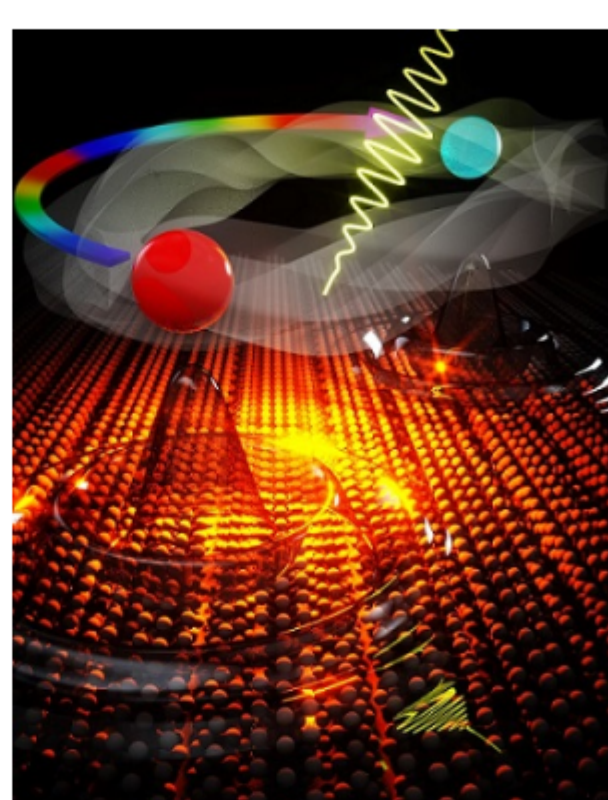
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Nearly Dissipationless Current Achieved Through Light-Induced Switch

Researchers at the U.S. Department of Energy's Ames Laboratory, along with collaborators from Brookhaven National Laboratory and the University of Alabama at Birmingham, have found a light-induced switch that twists the crystal lattice of the material and switches on an electron current that appears to be nearly dissipationless.

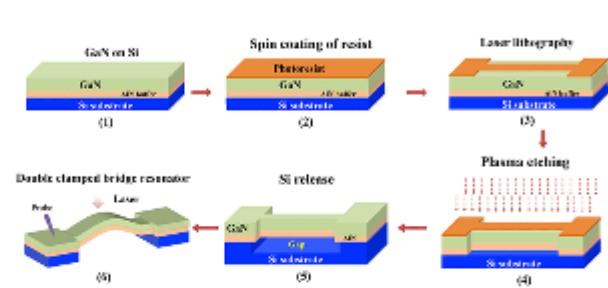
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MEMS Resonator Based on Gallium Nitride Maintains Stability at High Temperature

A MEMS resonator that achieves operational stability under high temperatures by regulating the strain of imparted heat from gallium nitride has demonstrated qualities that show its promise as a highly sensitive oscillator device in the pursuit of enhanced 5G communication.

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Featured Products

Optical Fabrication

Photonics Media

Optical Fabrication is a new book for anyone working on or interested in the methods, materials and measurement techniques used in modern lens and optical component manufacturing. The book will serve as an introduction or update, moving beyond methods and materials to design and complex modern applications.

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Wavelength Stabilized Laser Diode

PhotonTec Berlin GmbH

PhotonTec Berlin expands its wavelength stabilized diode family with a new high-brightness 976 nm diode of 140 W power from a 105 μm core and 0.22NA fiber pigtail. Utilizing volume grating, the emitting wavelength is stabilized at 976 nm and insensitive to operating temperature and current.

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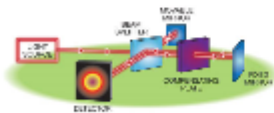
Upcoming Webinars

Fourier Transform Infrared Spectrometer (FTIR): Theory, Practice, and Applications

Wed, Feb 10, 2021 1:00 PM - 2:00 PM EST

This webinar with John D. Gilmore and Slawomir Piatek, Ph.D., of Hamamatsu will review the basic theory behind a Michelson-Morley interferometer, and will apply it directly to today's modern MEMS-based FTIR engines. The presenters will compare traditional grating-based spectrometers with FTIR, and the associated technological limitations, such spectral coverage, signal to noise ratio and noise induced by mechanical vibration. Participants will witness a live MEMS FTIR product demonstration and will learn about FTIR applications and some market challenges and solutions. Presented by Hamamatsu Corporation.

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