

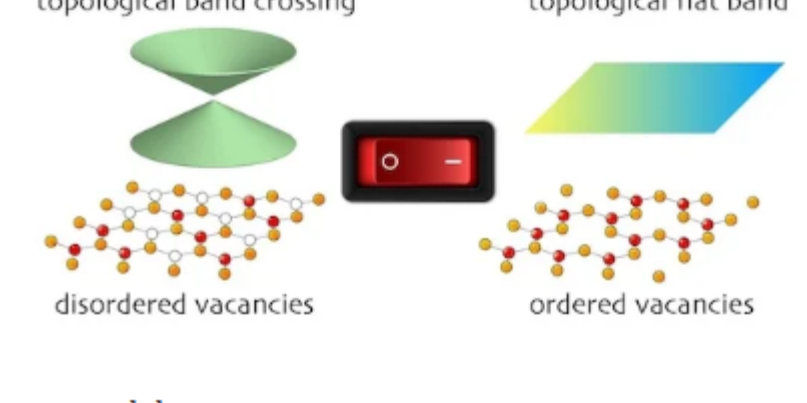


Weekly News

LATTICE OPTICS
CZ GROWTH AND LENS MANUFACTURING BOZEMAN, MT

SILICON AND GERMANIUM OPTICS

- MEDICAL IMAGING LENS
- IR OPTICS
- LEO SATELLITE OPTICS



Qubits Could be Stored in Flash-Like Memory

Rice University physicists have discovered a phase-changing quantum material — and a method for finding more of it — that could potentially be used to create flash like memory capable of storing qubits, even when a quantum computer is

powered down. [Read Article](#)



DUV Lasers Made with Nonlinear Crystals Enhance Lithography Performance

To generate highly coherent deep UV for interference lithography and other applications, researchers at the Chinese Academy of Sciences developed a hybrid argon-fluoride (ArF) excimer laser that delivers both narrow linewidth and high

coherence at 193 nm. In the hybrid ArF excimer laser, the ArF oscillator has been replaced with a narrow linewidth, solid-state, 193 nm laser seed. The laser seed, which exhibits good beam quality, improves coherence and maintains high output power in the hybrid ArF excimer laser system. [Read Article](#)



CLEO Heads to the East Coast

Featuring more than 2000 technical sessions across 29 topic categories, plus plenary sessions, special symposia, and short courses, the Conference on Lasers and Electro-Optics (CLEO) 2024 kicks off at the Charlotte Convention Center in North Carolina, May 5-10. Topics to be covered range from

breakthrough ideas to real-world applications in quantum photonics, laser based manufacturing, and fiber optics. [Read Article](#)

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The CODE V 2024.03 release offers improved design workflow, faster image simulation, and enhanced learning capabilities. New features like Multi-Environment Coupling, an expanded Example Model Library, and metalens support have been introduced to foster innovation, save time, and provide comprehensive system analysis.

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- [Machine Learning Pushes High-Power Lasing Limits](#)
- [Celestial Surface Mapping Tech Combines Established Techniques](#)

OPTICAL DESIGN SUMMIT

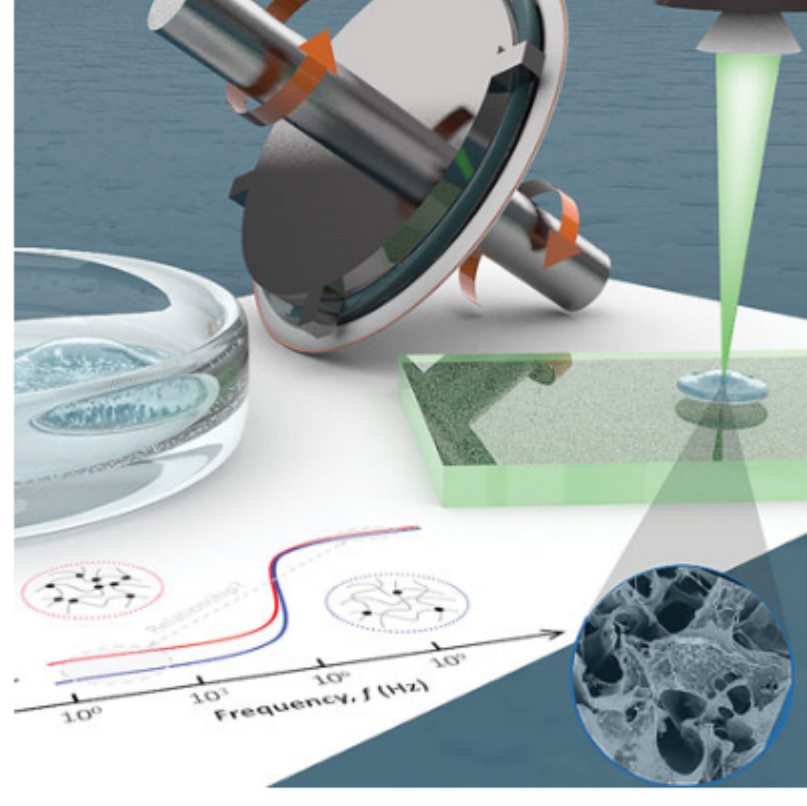
May 22, 2024

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Latest Webinars

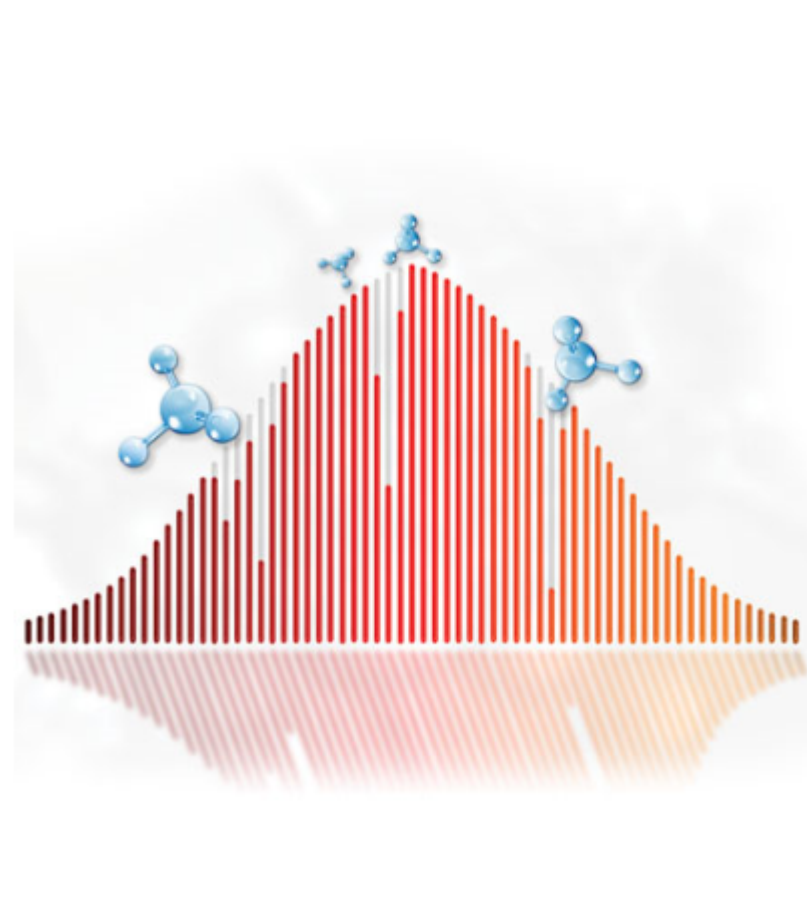


Brillouin Microscopy for Cell and Tissue Imaging

Wed, May 15, 2024 1:00 PM - 2:00 PM EDT

The interaction between photons and acoustic phonons within materials, first described by Leon Brillouin, has been widely investigated to characterize the mechanical and physical properties of samples. To translate this technology to biomedical applications in which mechanical properties are often critical, Giuliano Scarcelli's lab has developed high-resolution spectrometers at high throughput and combined them with optical microscopes to yield 3D-imaging modalities that use label-free biophysical properties as contrast mechanisms for imaging. Scarcelli shares areas of application and future developments of this research. Sponsored by LightMachinery.

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Optical Frequency Combs: The Pinnacle of Precision from the Visible to the MIR

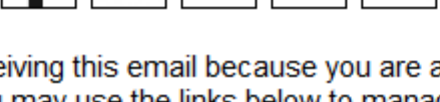
Thu, May 16, 2024 11:00 AM - 12:00 PM EDT

In this webinar, Thomas Quenzel from Menlo Systems delves into the fundamental principles behind frequency comb generation and manipulation, shedding light on its transformative potential across multiple spectral domains. He shares about the world of precision measurement, where frequency combs serve as indispensable tools for metrology, spectroscopy, and beyond. From ultraprecise optical clocks to high-resolution molecular spectroscopy, discover how frequency comb technology enables unprecedented levels of accuracy and resolution in scientific research and industrial applications. For a seasoned researcher, industry professional, or enthusiast who is eager to uncover the cutting-edge developments in frequency comb technology, this

webinar offers valuable insights and inspiration. Join as Quenzel unravels the vast potential of frequency comb technology and its transformative effect on the future of science and technology. Presented by Menlo Systems.

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