

This Week in PHOTONICS

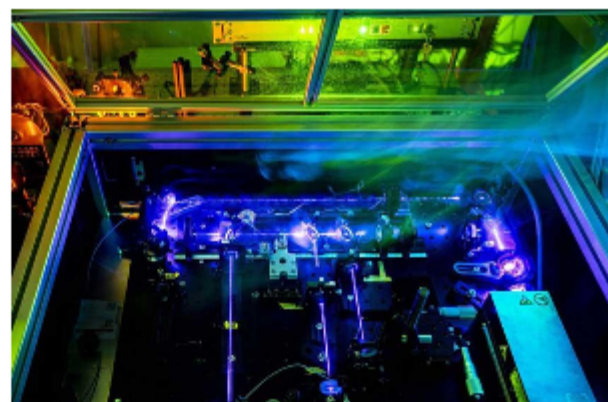


Top Stories

Research Project Will Track Tumors with Quantum Imaging

A project funded by the German Federal Ministry of Education and Research will investigate the viability of quantum optical imaging for tumor diagnostics. Nine project partners, including TU Darmstadt, will explore the issue in the €6.7 million (\$7.2 million) "Quancer" project under the framework program "Quantum Technologies: From the Basics to the Market."

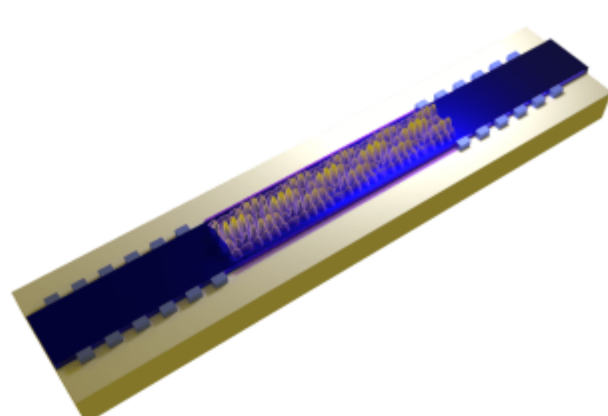
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Supermode Optical Resonator Moves Beyond Conventional Cavities

Researchers in the lab of Federico Capasso at Harvard University's School of Engineering and Applied Sciences developed a supermode optical resonator. Prior to the work, resonators — and the two reflective mirrors inside them — controlled the intensity and frequency of light, but not its mode, which determines the shape and manner in which photons flow through space and time.

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Alternate Substrate Drives Drastic Efficiency Increase in Perovskites

University of Rochester researchers have found that the use of a metal substrate can boost the photoelectric conversion efficiency of perovskites. The Rochester researchers, led by professor Chunlei Guo, devised a method that, rather than glass, uses a substrate of either a layer of metal or alternating layers of metal and dielectric materials. The team's architecture boosted the perovskite's light conversion efficiency by 250%.

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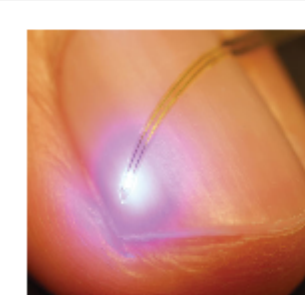
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Upcoming Webinars



Soft Optical Systems as Biointegrated Technologies: From Biological Research to Clinical Health Care

Tue, Mar 7, 2023 1:00 PM - 2:00 PM EST

Advanced optoelectronic systems that can intimately integrate with soft living tissues have the potential to accelerate progress in biological research and to serve as the foundations for new approaches in patient care. John Rogers, Ph.D., of Northwestern University describes foundational concepts in optics, device physics, and manufacturing processes for these types of technologies, along with examples of commercialized systems for neuroengineering and patient monitoring.

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The Universe Through Sight, Sound, and Touch: Exploring Multiwavelength Astrophysics Data Sets

Wed, Mar 8, 2023 1:00 PM - 2:00 PM EST

Information about the universe can be more than just a two-dimensional snapshot. Researchers are able to transform these digital assets to listen to, feel, or virtually move through cosmic objects. Kimberly Arcand, Ph.D., shares how it is possible to listen to the debris from an exploded star, walk through the core of the Milky Way in 3D through virtual reality, feel vibrations of a stellar nursery, and experience the universe anew. She focuses on some of the innovative ways that experts and non-experts can explore astrophysical data through sonification, 3D printing, and extended reality.

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