

This Week in PHOTONICS



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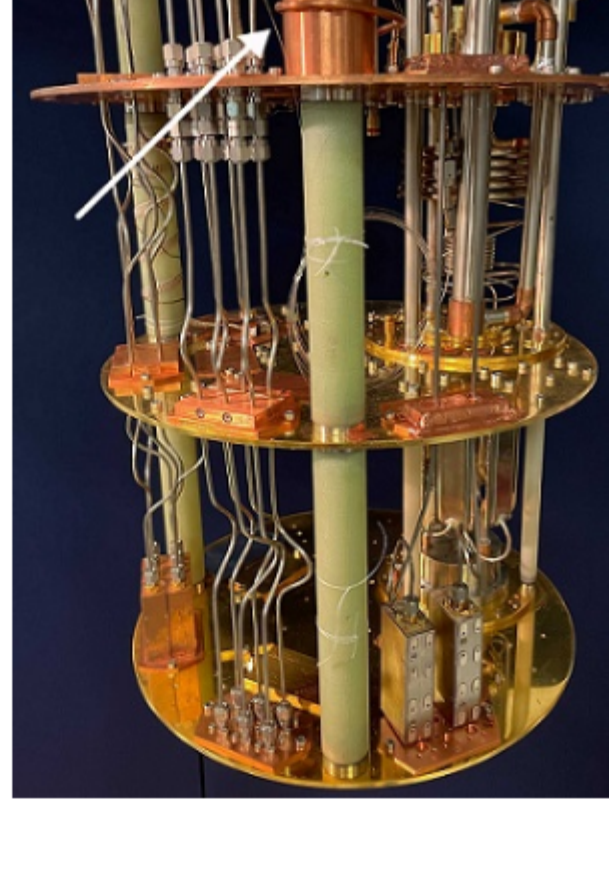
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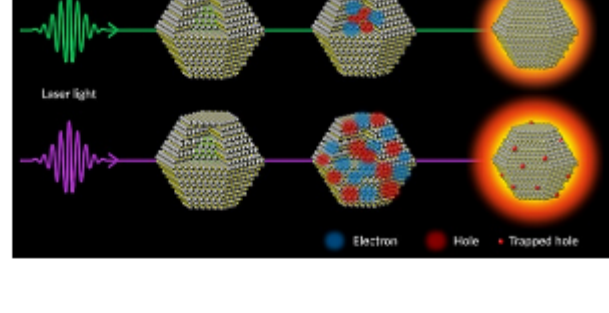
Optical Fiber Brings Universal Quantum Computing Closer
Physicists at the National Institute of Standards and Technology (NIST) measured and controlled a superconducting qubit using optical fiber, rather than metal electrical wires. The work moves toward a universal quantum computer capable of solving the most difficult equations, which is estimated to require about 1 million qubits.

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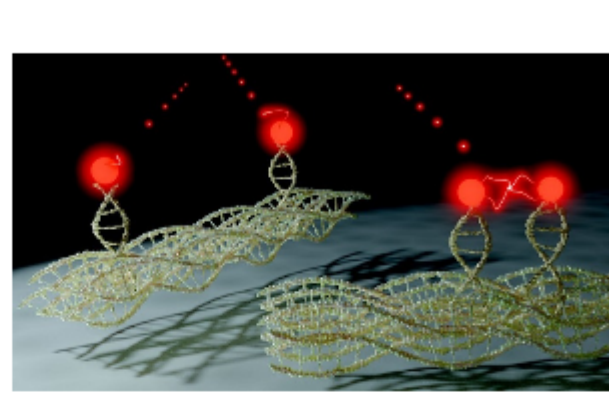
Atomic Lattice Excitation Yields Understanding of Quantum Dots' Limits
At low energy levels, quantum dots are able to absorb light and convert it to a different color at nearly 100% efficiency. At higher excitation energies, required for brighter screens and other technologies, the level of efficiency drops dramatically. The conclusions are a result of experimentation conducted by researchers at the Department of Energy's SLAC National Accelerator Laboratory.

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DNA Origami Supports Applications In and Beyond Life Sciences
A European research team developed a dye- and DNA programming-based approach for counting molecules present within individual complexes. The approach supports biomedical and life sciences applications, as well as those involving OLEDs, solar cells, and soft matter — such as photovoltaics and liquid crystals.

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:: Photonics Spectra Optics Conference



KEYNOTE: "From the Design Lab to the Factory Floor: How Optics Manufacturers Move Swiftly from Concept to Creation"

Presented by: **Ulrike Fuchs, asphericon**

Ulrike Fuchs, vice president of strategy and innovation at asphericon GmbH, keynotes the *Photonics Spectra* Optics Conference, a virtual showcase featuring more than a dozen presentations on pertinent topics in the field of optics. Fuchs' session will provide an in-depth look at the manufacture of optical components and systems, and the detailed processes needed to move from concept to creation across products and technologies.

Fuchs' keynote will be available live starting at 11 a.m. on April 27.

Additional sessions will include an optics market analysis on the effects of COVID-19, from Tom Hausken, senior industry adviser at The Optical Society (OSA); "Designing Optical Assemblies for Manufacturability," from Edmund Optics' Katie Schwartz; and "3D-Printed Freeform VIRGO Optics," from NanoVox's James Field.

The two-day *Photonics Spectra* Optics Conference runs April 27-28. Registration is free for the event, which is offered exclusively online. For more information and registration, please visit www.photonics.com/pso2021. Continued coverage of this inaugural event will also be available on Photonics.com leading up to the conference.

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:: Featured Products

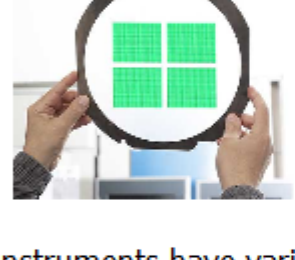


[Vibration Isolation Systems](#)

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Kinetic Systems, Inc. has been producing vibration isolation mounts, workstations, and optical tables in Boston, Massachusetts since 1968. Through continuing research of vibration effects on equipment and structures, it has pioneered many state-of-the-art developments in vibration isolation, damping, and structural design.

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May 15-16, 2021

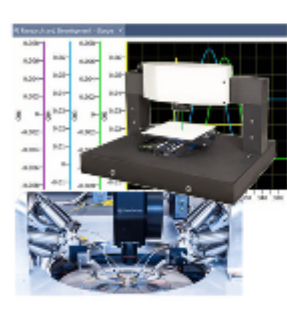
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Next Wave of Sensorization—Solving Our Shared Technical Challenges

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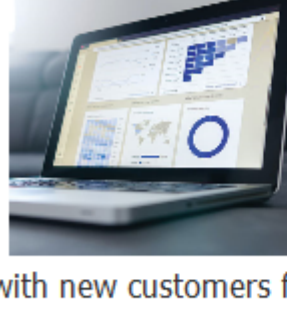


Improving Production Economics in Photonics Test/Assembly and Ultrafast Laser Materials Processing of Transparent Materials

Tue, Apr 6, 2021 1:00 PM - 2:00 PM EDT

This webinar with Scott Jordan and Matt Price of PI will focus on advancements in high-throughput motion control techniques for: 1) Test and production of photonics devices and 2) Ultrafast laser materials processing in transparent media and how to achieve best results direct from CAD models. It will address advances in software, control algorithms, and motion systems for design engineers and scientists in laser processing, optics, and photonics industries. Presented by PI (Physik Instrumente).

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Photonics Entrepreneurship Series: Selling New Technology, Challenges & Best Practices

Thu, Apr 8, 2021 1:00 PM - 2:00 PM EDT

This webinar with Bruce Forman of QED Technologies will take attendees through the most common current applications with photonics industry start-ups. Forman will explain the concept of "effective entrepreneurship" and offer techniques for optimizing business practices toward finding and working with new customers for selling photonics technologies.

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:: All Things Photonics

Greg Quarles, former OSA chief scientific officer and current CEO of Applied Energetics, takes us beyond the defense sector and the combatting of threats along the electromagnetic spectrum, outlining current applications in directed energy. Tom Nugent, CTO and co-founder of PowerLight Technologies, talks optical power beaming — a technology that is closer than you think.

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