

# This Week In PHOTONICS

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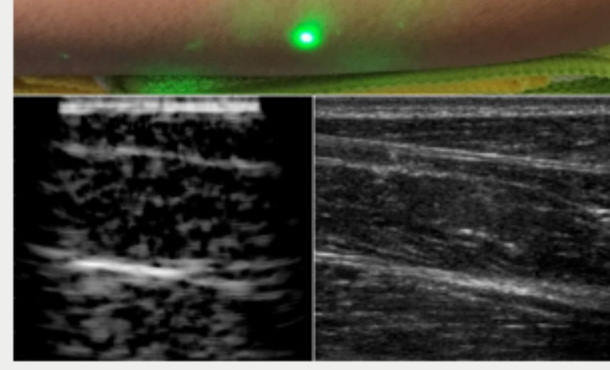
## Meet the Editors

Photonics West – Wednesday, February 5, 3:00 p.m. | Booth 658/659

## Top Stories

### Noncontact Laser Ultrasound Safely Images Human Tissue

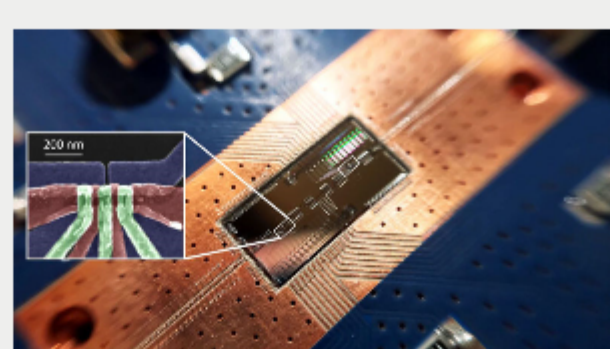
MIT engineers have devised an alternative to conventional ultrasound imaging that doesn't require contact with the body and can be used on patients who may not tolerate a probe on their body, such as infants, burn patients, or patients with sensitive skin. In tests scanning the forearms of volunteers, the researchers were able to observe common tissue features such as muscle, fat, and bone down to about 5 cm below the skin.



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### Silicon Quantum Bits Communicate over Relatively Long Distance

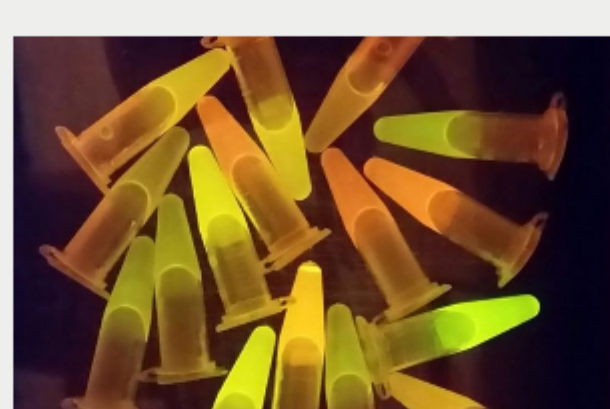
A Princeton University research team has shown that silicon quantum bits, mediated by a microwave photon, can interact even when spaced relatively far apart on a computer chip. The ability to transmit messages across relatively long distances on a silicon chip using multiple qubits could open new possibilities for quantum computing.



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### Green Fluorescent Protein Can Increase Protein Production

Through the use of green fluorescent protein, researchers at Washington University School of Medicine have found a way to supercharge protein production a thousandfold. The discovery resulted from an experiment that turned out differently than expected.



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## Featured Products



### OZ Optics' Online Catalog

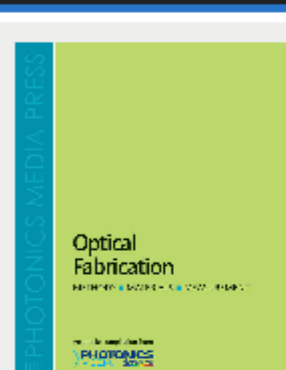
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### Optical Fabrication

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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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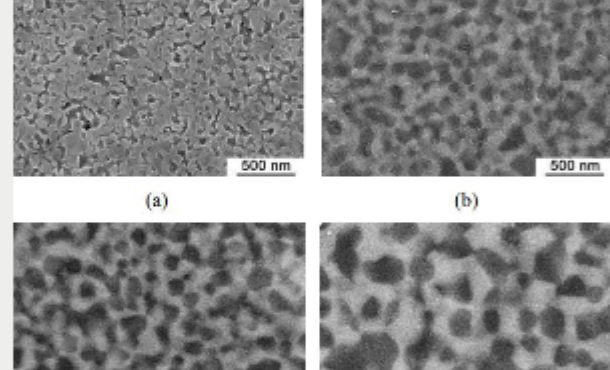
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## More News

### New Ceramic Nanocomposite Demonstrates High IR Transmittance, Thermal Stability

A research team that includes scientists from Russia, Ukraine, and China has developed a fine-grained composite ceramic material that transmits over 70% of light in the infrared range with wavelengths up to 6000 nm. Ceramic nanocomposites are considered promising materials for operations in the IR range and are known for their advanced thermal stability, thermal conductivity, and mechanical stability.



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### Jelena Vuckovic Granted £350K to Create Miniature On-Chip Laser

Jelena Vuckovic, a Jensen Huang Professor in Global Leadership and professor of electrical engineering at Stanford University, is the winner of the £350,000 IET A F Harvey Engineering Research Prize from The Institution of Engineering and Technology, London.



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## More Headlines

[Researchers Transform IR Wavelengths into Visible Light](#) [Read Article](#)

[Thorlabs Adds Crystalline Coating Capability](#) [Read Article](#)

[Researchers Develop Sub-Femtosecond Transportation for Electrons](#) [Read Article](#)

[FLIR Systems Invests in Providence Photonics](#) [Read Article](#)

[Mushroom-Derived Dye to Aid Cell Biologists](#) [Read Article](#)

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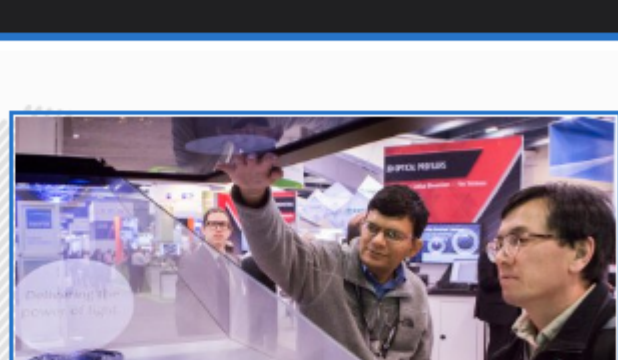
Advance Registration Ends 9 April

10 - 15 MAY 2020  
SAN JOSE, CALIFORNIA, USA

## Industry Events

### BIOS 2020

February 1-2, 2020 - The Moscone Center - San Francisco  
Make plans now to attend BIOS, the largest biophotonics, biomedical optics, and imaging conference in the field. BIOS 2020 will feature six program tracks: photonic therapeutics and diagnostics; clinical technologies and systems; biomedical spectroscopy, microscopy, and imaging; neurophotonics, neurosurgery, and optogenetics; tissue optics, laser-tissue interaction, and tissue engineering; and nano/biophotonics. Conferences will include: Diagnostic and Therapeutic Applications of Light in Cardiology; Photonics in Dermatology and Plastic Surgery; and more.

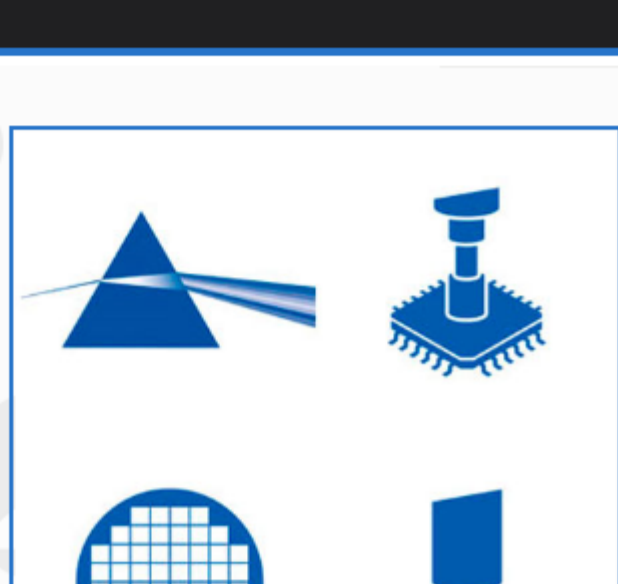


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## Webinars

### Advancements in Precision Motion Control for Electro-Wed, Jan 22, 2020 1:00P EST

With a focus on high-throughput/high-yield positioning and microbotic solutions for leading-edge manufacturing, this webinar from Physik Instrumente (PI) will present the latest advancements in software, control algorithms, and motion systems hardware available to design engineers and scientists in the laser processing, optics, and photonics industries. Examples will include laser processing of substrates with nonuniform topologies and autonomous microbotic and precision-positioning solutions for fast optimization in the manufacturing of silicon photonics, laser electro-optic, lidar, and imaging-optic assembly and test.



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### CALL FOR ARTICLES

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, *Vision Spectra*, and *EuroPhotonics*). Please submit an informal 100-word abstract to [editorial@Photonics.com](mailto:editorial@Photonics.com), or use our [online submission form](#).

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