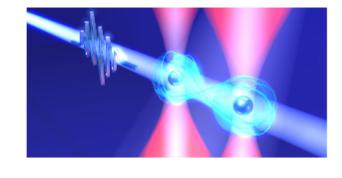




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Optical Tweezing Resolves Pivotal Bottleneck in Quantum Computing

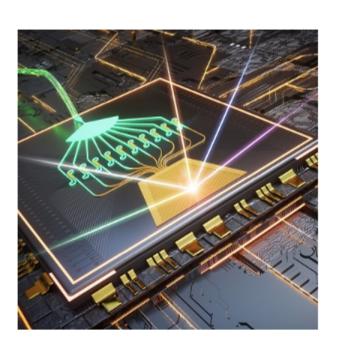
A research team in Japan's Institute for Molecular Science (IMS), National Institutes of Natural Sciences (NINS) has executed a two-qubit gate — a fundamental operation for quantum computing — that operates in just 6.5 ns. The team believes that its advancement is poised to support a next wave of success in ultrafast quantum computing. Read Article



Cheaper Lidar Researchers from the Technical University of Denmark have developed

Chip-Based Beam-Steering Lights the Way to Smaller,

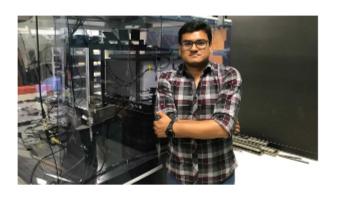
a chip-based beam-steering device to reduce the size and cost of highperformance lidar technology. The device could have applications in autonomous diving, free-space optical communications, 3D holography, biomedical sensing, and virtual reality. Read Article



Optic Sensing Researchers at the University of Alabama in Huntsville invented an

Hybrid Interferometer Broadens Application for Fiber

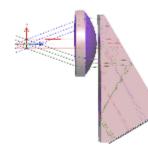
ultrahigh-resolution interferometer that is sensitive enough to detect weak acoustic signals that are too faint to be picked up by other sensor types. The team embedded an optical resonator-based interferometer — the Fabry-Perot type — into a double-path interferometer — the Mach-Zehnder type — to create the device, known as the Mach Zehnder-Fabry Pérot (MZ-FP) interferometer. Read Article



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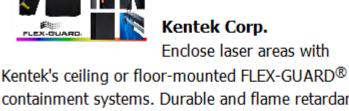
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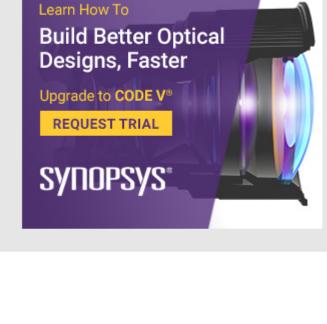
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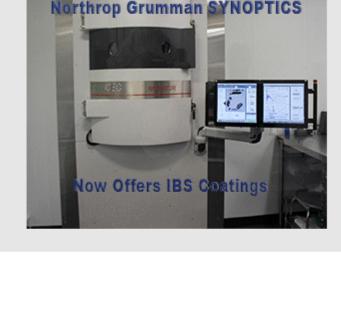
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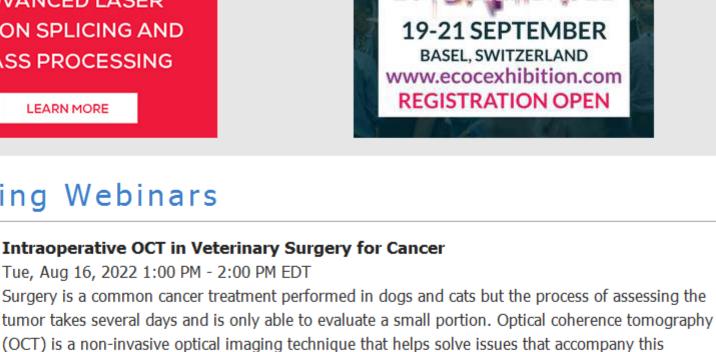
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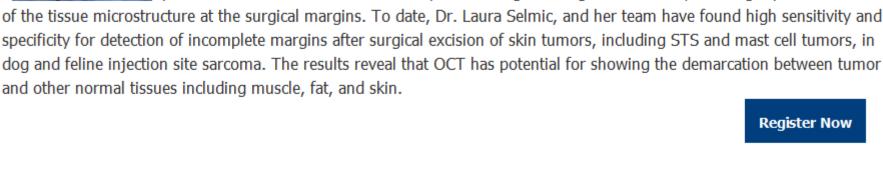
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process. OCT enables real-time intraoperative surgical margin assessment, allowing rapid visualization



of the tissue microstructure at the surgical margins. To date, Dr. Laura Selmic, and her team have found high sensitivity and specificity for detection of incomplete margins after surgical excision of skin tumors, including STS and mast cell tumors, in

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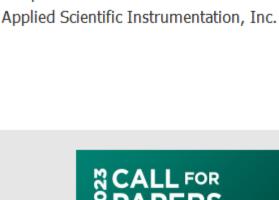
Swept Light-Sheet Microscopy (CT-ASLM), that helps further this research. The CT-ASLM leverages

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