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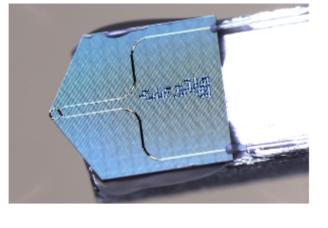
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Quantum Advancement Combines Free Electrons and **Photons**

A collaboration between Swiss and German researchers demonstrated the generation of electron-photon pair states for the first time in a controlled way, using integrated photonic circuits on a chip. Using a new technique, they precisely detected the involved particles. The experiment could enable quantum-enhanced electron microscopy and adds free electrons to the toolbox of quantum technologies.

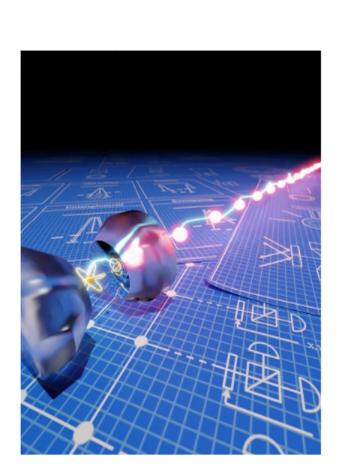
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Fourteen Entangled Photons Expel a Quantum Computing Bottleneck Physicists at the Max Planck Institute of Quantum Optics developed a

method that could facilitate the construction of powerful and robust quantum computers, as well as the secure transmission of data. The physicists generated up to 14 entangled photons, in an optical resonator, which could be prepared into specific quantum physical states in a targeted and efficient manner.

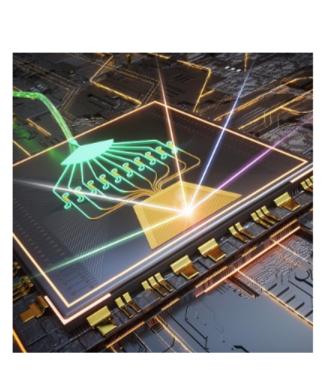
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Cheaper Lidar Researchers from the Technical University of Denmark have developed

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



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6,000 km/h - Fracture



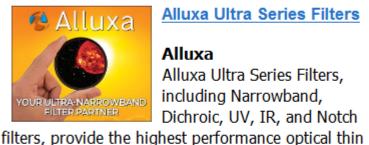
Observation on Smartphone Shimadzu Europa GmbH

Detailed fracture observation of tempered glass used for

and high-speed impact testing machine HITS-PX. In total two types of tempering methods were investigated: electric field assistance and immersion.

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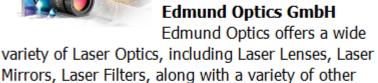
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The BioPhotonics Conference Places Biomedical Imaging and Medical Laser Innovations at the Fore

Photonics Media's second annual online BioPhotonics Conference,

highlighting the latest advancements in optical biomedical and life sciences technology, will run Oct. 25-27. Attendees can expect an

expansive lineup of presentations detailing the cutting-edge research and innovative technologies that are leading to improved diagnostics, treatments, and heightened understanding of the biophotonics field. Read Article



Self-Emergent Microcombs Flip Switch for Precision Timekeeping Researchers from the universities of Strathclyde, Loughborough, and Sussex have demonstrated how optical clocks can be reliably switched on and made to keep running. The collaborators' work resolves what had emerged as a persistent problem in the development of ultraprecise optical clocks and, specifically, the microcombs on which they rely to move from an "off" state to an "on" state.

A German consortium composed of Q.ANT, Bosch, TRUMPF, and the German Aerospace Center plans to use quantum technology to permanently enhance satellite measurement stability. The partners will develop space-qualified attitude

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Quantum Sensors for Satellite Control Enable High-Speed Connectivity

sensors in a project will improve internet access, particularly in remote regions. Read Article



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