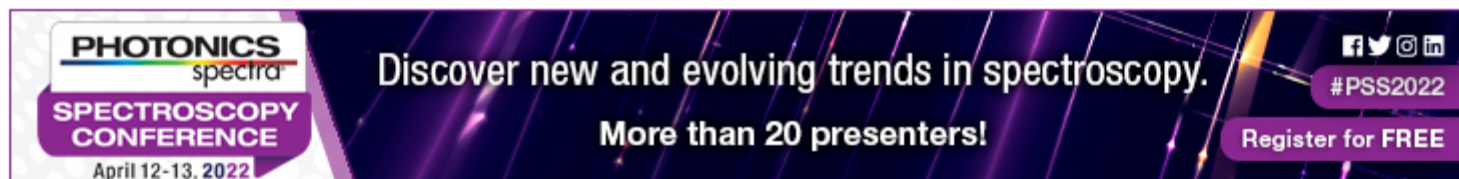


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### Quantum Processor to Support Operation at Cryogenic Temps

A collaborative project led by the Fraunhofer Institute for Applied Solid-State Physics IAF will develop a compact, scalable quantum computer processor based on spin photons in synthetic diamond that can be connected to classical computers. The €16.1 million (~\$17.61 million) project called SPINNING (diamond spin-photon-based quantum computer) is funded by the Federal Ministry of Education and Research and is set to last three years.

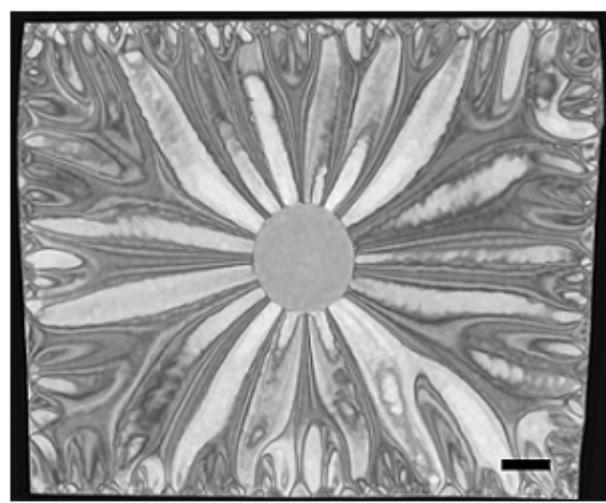
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### Strain Engineering Leads Way to Silicon-Compatible Optoelectronics

A simple method for producing what scientists have reported are record levels of strain in single-crystal silicon could lead to the ability to integrate photonics more fully with silicon structures. The method was demonstrated by a research team at the University of Surrey, which developed a one-step procedure for generating strain in semiconductors to modify the semiconductor's band structure.

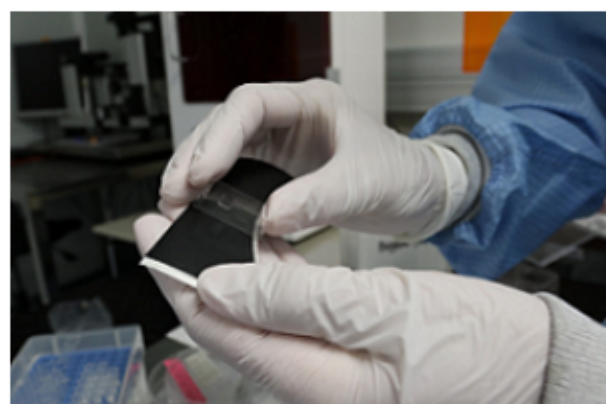
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### Light-Based Tissue Bioprinting Method Cuts Reliance on Animals

A light-based 3D bioprinting technique could soon be used to produce tissue models for testing and basic research. The approach is poised to reduce reliance on animals in laboratory testing.

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### European Lithium Niobate Photonics Initiative Launches

The ELENA project ("European electro-optic and nonlinear PIC platform based on lithium niobate"), a part of the European Commission's Horizon 2020 program, held its kickoff meeting Feb. 10 and 11. ELENA seeks to develop what it said will be the first European lithium niobate on insulator (LNOI)-based-platform for PICs using an all-European supply chain.

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### Emerging Cytometry Method Characterizes Immune Cells in the Lungs

Researchers at the Fraunhofer Institute for Toxicology and Experimental Medicine have developed a procedure for characterizing immune cells in the lungs. The characterization method uses a technique called chip cytometry, and it offers advantage over existing techniques by enabling patient samples to be stored under refrigeration for months and examined for further parameters should new issues become relevant.

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### Robot System Enhances Laser Diode Manufacturing

A robotic system developed by Scotland-based thin-film coatings and photonics company Helia Photonics, in collaboration with the University of the West of Scotland (UWS), greatly enhances the production of laser diode components used for medical diagnostics, vision systems for self-driving vehicles, aviation, space, and forensic science.

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