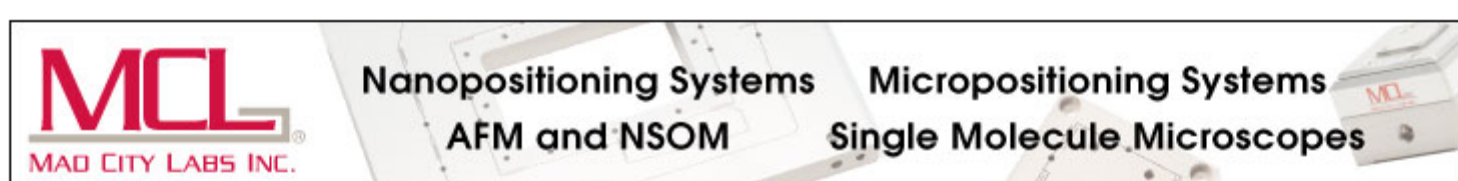


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First Heart Patients Diagnosed Using Ultrathin Fiber Optic Sensor Tech

Medical personnel have used a fiber optics sensors-based diagnostic technology to detect the causes of heart disease for the first time in patients. The device, developed by University College London, is called iKOr. It uses an ultrathin microcatheter integrated with fiber optic sensors to enable doctors to check both blood pressure and blood flow around the heart and look for signs of narrowing and thickening of the arteries — common signs of disease.

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Novel Photodiode Cuts Excess Noise, Offers High Detection Efficiency

Researchers at the University of Sheffield designed and developed an avalanche photodiode (APD) with significant potential for low photon detection. The highly sensitive gallium arsenide antimonide/aluminum gallium arsenide antimonide separate absorption and multiplication avalanche photodiode, which the researchers believe signifies a milestone in the development of infrared APDs, demonstrates very little added noise to interfere with signal recognition.

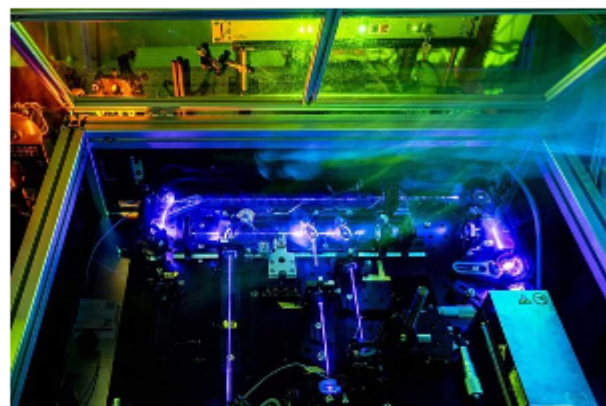
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Research Project Will Track Tumors with Quantum Imaging

A project funded by the German Federal Ministry of Education and Research will investigate the viability of quantum optical imaging for tumor diagnostics. Nine project partners, including TU Darmstadt, will explore the issue in the €6.7 million (\$7.2 million) "Quancer" project under the framework program "Quantum Technologies: From the Basics to the Market."

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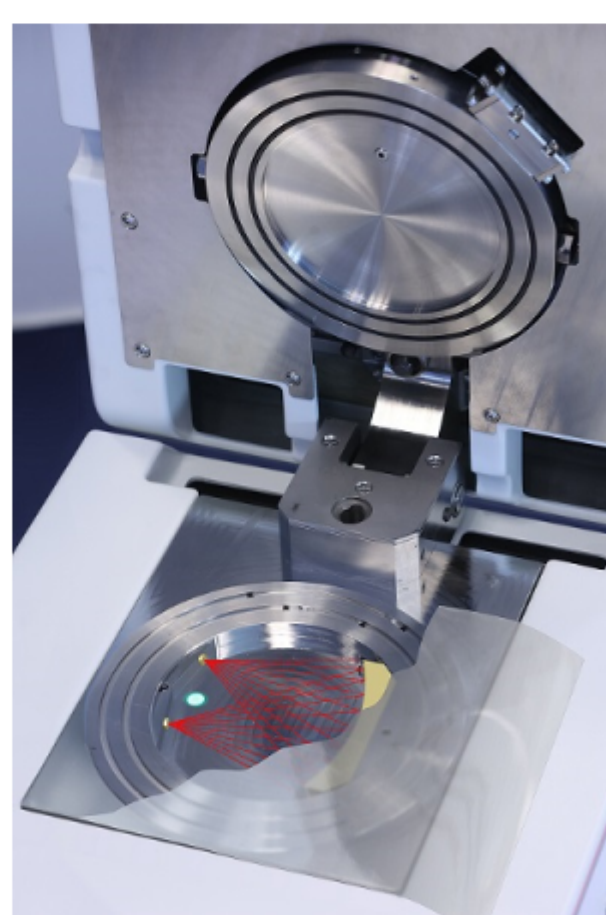


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Single-Operation Method Analyzes Permeation Rates Simultaneously

Researchers at Fraunhofer IWS have developed a measuring technique for reliably determining the permeation rate of films. The method, which the researchers developed as part of the SimPerm project, looks at water vapor and oxygen permeation rates simultaneously — reportedly for the first time, the researchers said.

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Prophesee Collaborates with Qualcomm on Mobile Device Imaging

Vision systems developer Prophesee has launched a collaboration with Qualcomm Technologies to optimize its event-based Metavision sensors for use with premium Snapdragon mobile platforms from Qualcomm. The collaboration aims to bring the speed, efficiency, and quality of neuromorphic-enabled vision to mobile devices, and it will provide mobile device developers a fast and efficient way to leverage the Prophesee sensor's ability to improve camera performance, particularly in fast-moving scenes and in low light.

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TKH Vision Group Opens Vision Solution Center

TKH Vision has opened the TKH Vision Solution Center in Konstanz, Germany. The center, located at the Chromasens headquarters, will serve as a demonstration and experience center for TKH Vision's integrated machine vision solutions.

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