

## Chemical Sensors And Biosensors For Medical And Biological Applications

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Conquering a chemical challenge to control the structure of a polymer opens a path to better biosensors. A new organic (carbon-based) semiconducting material has been developed that outperforms ...

Conquering a Chemical Challenge Leads to Building a Better Biosensor Polymer

A new carbon-based semiconducting material could be key to building the next cohort of biosensors designed to monitor individual health. The material outclasses existing options, but developing such a ...

How Building a Better Polymer Could Help Improve Biosensors

The CBT is designed to detect a wide range of threats with the help of chemical and biological sensor technologies. The initial phase of CBT focuses on biological threats (such as Bacillus anthracis, ...

NYCT Subway Sensors: Early Warning for Chemical and Biological Threats

Much research effort is currently expended into novel types of biosensors that interact directly with the body to detect key biochemicals and serve as indicators of health and disease. "For a sensor ...

Building a Better Biosensor Polymer

These chemicals can act as clear and specific chemical markers that indicate ... medical device company that hopes to produce a biosensor for medical use. The team has received approval to test the ...

Biosensor May Detect Early Signs of Heart Attack

research effort is being put into novel types of biosensors that interact directly with the body to detect key biochemicals and serve as indicators of health and disease. "For a sensor to be ...

Biosensors boost from new organic semiconducting material

Silicone-based 3D-printed devices can be attached to human organs and tissues during procedures to help record and monitor their activity and guide surgeons.

What Can 3D Printing Offer Surgeons? Biosensors to Improve Safety

A team of researchers from the University of Strathclyde, Glasgow, and the Indian Institute of Technology (IIT), Bombay, have established a new, low-cost sensor capable of detecting tiny fragments of ...

Using Portable Sensors to Detect COVID-19 in Wastewater

"The ink used in the biosensors is biocompatible and provides a user-friendly design with excellent workable time frames of more than one day," said Kwan-Soo Lee, of Los Alamos' Chemical ...

Thin, stretchable biosensors could make surgery safer

The Government Technology & Services Coalition's Homeland Security Today (HSToday) is the premier news and information resource for the homeland security community, dedicated to elevating the ...

NYC Subway Sensors Could Provide Early Warning for Potential Chemical and Biological Threats

Nano-porous Au electrodes serve as conducting binding sites for bulk molecules in electrochemical biosensors. Present-day projects ... to improve Raman spectroscopy signals for chemical, gas and ...

Life Science Applications of the NL50 Nanoparticle Deposition System

The programmable biosensors can be integrated into other garments to detect dangerous substances, including other viruses, bacteria, toxins, and chemical agents. The sensors result from three ...

Facemask equipped with a wearable biosensor can detect SARS-CoV-2 virus

As a result, major enterprises from the quantum dot sensor market are leveraging this opportunity and focused on the healthcare applications in order to efficiently work as biosensors and ...

Growing Demand for Consumer Electronic Devices Fuels Sales Opportunities in Quantum Dot Sensor Market: TMR

Invasive sensors are used to locate physical and chemical parameters via placing ... Based on product segmentation it covers biosensors pressure sensors, accelerometers, temperature sensors ...

Disposable Medical Devices Sensors Market Share Growth, Size Value, Trends, Rigonal outlook by 2028

A research team has developed bio-inks for biosensors that could help localize critical regions in tissues and organs during surgical operations. A research team from Los Alamos National ...