

Special Issue

Innovative Applications of Gas Sensing Technology in the Medical and Health Field

Message from the Guest Editor

In our era of rapidly evolving science and technology, gas-sensing technology has shown remarkable potential across many advanced fields, particularly in medicine and healthcare. This Special Issue is dedicated to exploring these innovative applications. Gas-sensing technology is crucial in disease diagnosis. It detects biomarkers in exhaled breath, essential for early diagnosis of cancers, diabetes, and respiratory diseases. Gas sensors also monitor respiratory rates and real-time changes in gas composition, aiding assessment of patients' cardiopulmonary function. Furthermore, gas-sensing technology is valuable in drug research and development, enabling real-time monitoring of drug release for precise delivery and efficacy. Ongoing advancements in gas-sensing materials enhance medical diagnostics' accuracy and sensitivity. This Special Issue compiles latest research and practical experiences, promoting gas-sensing technology's innovative application in healthcare to improve human health and elevate medical practice standards.

Guest Editor

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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