



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

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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.





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Message from the Editor-in-Chief

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