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Gas Sensors Based on Low-Dimensional Nanomaterials and Their Applications

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Message from the Guest Editors

Dear Colleagues,

In recent decades, low-dimensional nanomaterials have attracted significant interest in the field of real-time gas detection. Due to their high sensitivity, affordability, and convenient operation, low-dimensional-nanomaterialbased gas sensors exhibit great potential for applications in atmospheric pollutant monitoring, noninvasive disease diagnosis, food quality assessment, public safety, etc. In consideration of the diverse syntheses of low-dimensional nanomaterials (e.g., morphological control, surface modifications, and composite engineering), various device designs (e.g., flexible sensors. **MFMS** sensors. multifunctional sensors, sensor arrays, and other novel sensors), disparate target gases (e.g., inorganic gas, volatile organic compounds, and explosive particles), emerging technologies (e.g., machine learning, intelligent agriculture, humanoid bionic system), and extended application scenarios (e.g., extreme environment adaptation). This Special Issue aims to collect original research and review articles on the latest advances, sensing mechanisms, technology, and applications in the field of lowdimensional-nanomaterial-based gas sensors.













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Message from the Editor-in-Chief

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