Special Issue

Gas Sensors Based on Low-Dimensional Nanomaterials and Their Applications

Message from the Guest Editors

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-nanomaterial-based 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, MEMS 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 low-dimensional-nanomaterial-based gas sensors.

Guest Editors

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Message from the Editor-in-Chief

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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