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Emerging Applications of Gas Sensors Based on Metal Oxides

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Message from the Guest Editors

Gas sensors are essential devices in the sensor networks and Internet of things (IoT) applications. They also hold great promise in some emerging areas such as exhaled breath diagnosis, in addition to the detection of harmful, toxic and flammable gaseous molecules. Metal oxide semiconductor (MOx) nanostructures have been widely investigated as sensing layers in gas sensors, due to their high surface area to volume ratio, low cost, easy synthesis, and facile processing. Propelled by the advances of nanoscience and nanotechnology, a vast number of sensors have been developed from MOx such as SnO_2, ZnO, WO_3, In_2O_3, etc. Great efforts have also been explored to develop strategies to optimize the sensing performance of MOx-based sensors towards detection in higher sensitivity, better selectivity, and lower power consumption. Currently, gas sensors are expected to be integrated into wearable and portable devices to realize more functionalities besides detection. To highlight the important progresses made in MOx sensors, the journal *Chemosensors* is going to publish a Special Issue on “Emerging Applications of Gas Sensors Based on Metal Oxides”.

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Message from the Editor-in-Chief

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