Special Issue

Gas Sensors for Internet of Things Era

Message from the Guest Editors

Low-power gas sensors represent a key component of the Internet of Things (IoT) era, effectively collecting information on specific gaseous species and transforming it into an electrical signal. In particular, gas sensors that detect minute concentration of hazardous gases have immediate technological application in food processing, medical diagnosis, aerospace vehicles, and environmental monitoring. Traditionally, various gas sensor types, including electrochemical, semiconductor, optical, capacitance-based, calorimetric, and acoustic-based gas sensors, have been validated and commercialized. With the advent of the IoT era, however, the requirements for successful gas sensors have diversified, involving novel key performance criteria such as miniaturized size, low power consumption, and easy integration with electronic circuits. In addition, individual sensor devices as well as gas sensor systems including heaters, circuit elements such as low-power wireless transmitters, and IoT platform integration have received significant research attention. For more information, please visit: mdpi.com/si/36225

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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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