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Gas Sensors for Internet of Things Era

Guest Editors:

Dr. Sangtae Kim
Department of Nuclear Engineering, Hanyang University, Seoul, Korea

Dr. Young Seok Shim
Department of Materials Science and Engineering, Silla University, Busan, Korea

Deadline for manuscript submissions:
closed (26 August 2021)

Message from the Guest Editors

Dear Colleagues,

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

Dr. Sangtae Kim
Dr. Young Seok Shim
Guest Editors

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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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