Special Issue

Micromachined Gas Sensors

Message from the Guest Editor

Advanced micromachining techniques create opportunities for the development of revolutionary new gas sensors that are small enough for integration into microelectronic systems and instrumentation, more easily deployable in a multitude of sensing applications, and capable of sensing unique aspects of the environment more accurately, safely, and reliably than ever before. This Special Issue is dedicated to showcase research papers, short communication, and review articles that focus on micromachined gas sensors theoretical foundations, advanced design and use of sensors and sensor arrays, micromachined sensor technologies toward early detection, micromachining and sensor optimization, sensor analytical modeling and design simulations, sensing and structural material selections, practical industrial, environmental and healthcare applications, sensor evaluations and characterizations methods, and advanced micromachined gas sensor fabrication process.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Micromachines (ISSN 2072-666X) is a forum for cutting-edge interdisciplinary research on micro and nanoscale science and technology. We emphasise the practical, real-world value of micro and nanotechnologies that will place *Micromachines* in a leading position among engineering and technology journals.

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