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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Deadline for manuscript submissions

closed (30 April 2021)

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

mdpi.com/si/43018

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