

Special Issue

High-Performance Gas Sensors: Materials, Technologies and Applications

Message from the Guest Editor

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: (1) Room-temperature gas sensors; (2) Promotion strategies for gas-sensing performance; (3) Applications of gas sensors in the detection of respiratory markers; (4) Applications of gas sensors in food safety; (5) Photoactivated gas sensors; (6) Applications of photonic crystals in gas sensors; (7) The mechanism exploration of gas sensors based on first principles; (8) Applications of new 2D materials and their composites in gas sensors; (9) Integration and array of gas sensors; (10) Signal processing of gas sensors; (11) Simulation methods for gas sensors; (12) Optimization of device structure for gas sensors.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2025)



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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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