Special Issue

Gas Sensors Based on Inorganic Materials

Message from the Guest Editors

Gas sensors play an important role in various fields, such as environmental monitoring, personal safety, medical diagnosis, and industrial control. Semiconductor gas sensors based on inorganic materials, such as metal oxides, carbon nanotubes, graphene, metal sulfides and MXene, have been widely studied and applied. Nevertheless, the high operating temperatures, poor selectivity, compliance to harsh environments, reproducibility for real applications, and intelligentization remain issues for semiconductor gas sensors. *Inorganics* created this Special Issue to collect the latest research works in the field of inorganic material-based gas sensors concerning the improvement of humidity tolerances, stability, low operating temperatures, quick response/recovery processes, low detection limits and intelligentization. All analytical works on gas sensing mechanisms are also welcome. Both original research papers and review articles will be considered for publication.

Guest Editors

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Deadline for manuscript submissions

closed (25 August 2023)

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

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