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Surface Science of Gas Sensing Materials

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Message from the Guest Editor

The Special Issue "Surface Science of Gas Sensing Materials" is aimed at presenting state-of-the-art knowledge of surface phenomena in gas sensors. Gas sensors are attracting increasing interest from scientific and industrial communities. Extensive research has been carried out on the design, synthesis, and investigation of gas sensing materials with improved sensitivity, selectivity, operation temperature, stability, and dynamics. However, designing novel gas sensing materials with predetermined working characteristics is a challenging task, and a basic understanding of the physical and chemical processes at the surface of gas sensors is strongly required. Functioning of gas sensors relies on the gas–solid interactions at the materials surface. Therefore, in this Special Issue we would like to collect the articles reporting on the current understanding of surface chemistry of gas-sensing materials. All types of submissions are welcome, including research articles, reviews, and communications.



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Special Issue



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Message from the Editor-in-Chief

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