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Surfaces on Emerging Chemical Sensing Applications

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submissions:

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Message from the Guest Editors

In the recent years, the growing demand for sensing and/or monitoring in environmental and biological systems has led to the development of new chemical sensing technologies. These emerging chemical sensors have been employed in different areas, ranging from air quality monitoring for toxic and explosive gases up to biomarker species in the diagnostics of human diseases, among others. Thus, this Special Issue is devoted to reports of relevant scientific and technological developments on the processing, manufacturing, and evaluation of chemical sensors. Potential topics include, but are not limited to, novel synthesis routes or approaches aiming improved sensing performance, advances in the manufacturing of nanosensor-based devices, in situ and in operando characterization approaches for sensing mechanisms, and theoretical and computational studies in sensing phenomenology, among others. Submissions describing sensors based on SMOx, polymers, carbon, biological materials, and 2D-nanomaterials, among others, using electrical, electromagnetic, chemical, and optical principles are encouraged.



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