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Sustainable Materials for Electrocatalysis and Environmental Catalysis

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Message from the Guest Editors

Dear Colleagues,

Two-dimensional materials create extensive attention due to their novel electronic properties, large surface area, charging capacity, optical, biocompatible, unique physical and chemical properties. Graphene, MXene, and other two-dimensional (2D) materials represent one of the most popular research areas in energy research and environmental catalysis. Many of these properties are an excellent requirement for an application of electrodes for energy storage and conversion. The applications of 2D materials are not just confined to Opto and nano-electronics but also have strong potential in gas, biosensing technologies, and other environmental applications. Additionally, a large surface of 2D materials provides large storage capacity as compared to the bulk materials. The heterostructures based on 2D materials pay significant attention towards optoelectronics, nanoelectronics, and environmental sensing applications. It is my pleasure to invite all the main researchers in the field of 2D materials to submit contributions.

Keywords:

- 2D materials
- sensor
- supercapacitor
- energy conversion



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Special Issue



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Message from the Editor-in-Chief

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