Special Issue

Two-Dimensional Materials Membrane and Adsorbent for Wastewater Treatment

Message from the Guest Editor

Two-dimensional materials have unique physical and chemical properties and microstructures, which can be stacked and self-assembled to construct nanochannels with limited mass transfer; this makes the membrane separation process precise and controllable on molecular and ionic scales, and thus, satisfactory for wastewater treatment and other processes requiring separation. This Special Issue aims to collect the latest research progress, breakthroughs, challenges, and future research directions of different kinds of 2D material membranes and adsorbents for wastewater treatment. In addition, manuscripts on the preparation and modification methods, in situ characterization, mass transfer mechanism, molecular dynamics (MD) simulation/calculation, and 2D material membrane and adsorbents amplification technology and large-scale applications are also very welcome. See more information at https://www.mdpi.com/si/158827

Guest Edito

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

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