



Advances in Polymeric Nanocomposite Membranes

Guest Editor:

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Deadline for manuscript
submissions:

10 October 2024

Message from the Guest Editor

Dear Colleagues,

Polymeric nanocomposite membranes have attracted the attention of scientists and engineers around the world owing to their noteworthy advantages. One of the major challenges confronted by polymeric nanocomposite membranes is to achieve excellent compatibility between nanoparticles and the polymer matrix. Another is to eliminate the agglomeration of nanoparticles, especially at high loadings. Therefore, the interactions between nanoparticles and polymer bulk is a key factor that is required in order to improve the overall performances of membranes.

This Special Issue of *Nanomaterials* aims to present the latest original advances in polymeric nanocomposite membranes, a field that has developed since the 1930s and particularly matured two decades ago. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

You can submit your paper at the following link:
<https://www.mdpi.com/si/200047>

Dr. Heng Mao
Guest Editor





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Editor-in-Chief

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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.

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