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New Trends in Membrane Preparation and Applications

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closed (31 October 2019)

Message from the Guest Editors

Dear Colleagues,

Today, membranes represent a very well-established technology in desalination, biomedical applications and wastewater treatment, recovery of added value products by fractionation and concentrations applications, and in gas and vapor separation.

In this Special Issue, researchers are invited to contribute original research papers, as well as review articles, related to the preparation, characterization, and application of polymeric, mixed matrix, and inorganic membranes, in both flat and hollow-fiber configuration. We are particularly interested in articles focusing on innovative aspects in the preparation and application of membranes with tailored and unique features. Potential topics include, but are not limited to:

- Advanced membrane preparation techniques;
- Membrane functionalization and application;
- Sustainability in membrane preparation;
- Study of the effect of operating conditions and process parameters on membrane morphology and performance;
- Application of high performing membranes in selected membrane processes.

Dr. Alberto Figoli
Dr. Francesco Galiano
Guest Editors



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Special Issue



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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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