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Applications of Membrane Technology in Hybrid Processes

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Message from the Guest Editors

Human population expansion is creating a tension between the climate, natural resources, and the environment. One way to mitigate its deleterious impact is to adopt different processing techniques to acquire food/feed, chemicals, materials, or energy. Technological innovation of techno-economic performance indexes is required to minimize environmental impact, safety risk, plant print, capital, and operating costs. Membrane technology plays an essential role in coping with sustainability challenges due to the expected radical innovation achieved by developing hybrid membrane processes with reaction and/or separation.

This Special Issue, “Applications of Membrane Technology in Hybrid Processes”, aims to provide visibility to high-quality research focused on the use of membrane technology to develop novel hybrid processes, and thus process intensification. Topics include, but are not limited to:

- The development of membrane reactors and bioreactors for ISPR or material confinement;
- The development of hybrid membrane–separation systems;
- Modeling, simulation, process optimization, and control of hybrid membrane systems;
- Industrial applications.

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Message from the Editor-in-Chief

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