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Nanostructured Membranes for Health, Environment and Renewable Energy

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Deadline for manuscript submissions:
31 December 2019

Message from the Guest Editor

Membranes have become widely used in many separation systems for gas or liquid purification/extraction, water treatment/desalination, catalytic reactors, and various environmental/recycling applications. They also play an essential role in various systems, such as batteries, sensors, fuel cells, electrolysers and barrier layers.

The aim of this Special Issue is to assemble high quality contributions on the synthesis, the modification, the characterization and the application of membranes. It will deal with the design of new nanostructured membranes by tuning the composition (polymeric, hybrid and ceramic membranes), the membrane microstructure (pore size, porous volume, pore distribution, connectivity and tortuosity), the membrane design (surface to volume ratio, hydrodynamics) as well as the surface modification (for both porous and dense membranes). The relation between these parameters, the physical–chemical properties as well as the permeability, the selectivity, the reactivity and the durability of these membranes will be explored. Novel applications in different fields will also be investigated.

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Editor-in-Chief

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Message from the Editor-in-Chief

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