Special Issue

Advanced Modification of Membrane Materials

Message from the Guest Editors

Membrane technology is playing an increasingly important role in modern life and in global sustainable development. Membrane processes are considered to be “green” due to their energy efficiency, reagent-free operation, low labor inputs, and the compactness of membrane plants. The properties of membrane materials determine the efficiency and cost of the separation process and affect the purity of the product and the cost of separation. Although progress in the membrane fields has to date been quite significant, however, commercialized membranes still feature certain drawbacks. There is a need, for example, to improve membrane selectivity, permeability, operational stability, chemical and mechanical resistance, and antifouling performance and to tailor additional functions to membranes. This Special Issue of Materials focuses on novel techniques of membrane modification to improve membrane properties and separation performance. Both original research articles and reviews are welcome.

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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