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Advanced Modification of Membrane Materials

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Message from the Guest Editors

Dear Colleagues,

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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Special Issue



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Message from the Editor-in-Chief

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