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 guite 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.

Guest Editors

Dr. Tatiana V. Plisko

 Department of Analytical Chemistry, Institute of Chemistry, St. Petersburg State University, 7/9 Universitetskaya nab., 199034 St. Petersburg, Russia
Institute of Physical Organic Chemistry, National Academy of

Sciences of Belarus, 13 Surganov Str., 220072 Minsk, Belarus

Dr. Ilya L. Borisov

A.V. Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Lenynsky prospect 29, Moscow 119991, Russia

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Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada 2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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