



Advanced Modification of Membrane Materials

Guest Editors:

Dr. Tatiana V. Plisko

1. Department of Analytical
Chemistry, Institute of Chemistry,
St. Petersburg State University,
7/9 Universitetskaya nab., 199034
St. Petersburg, Russia
2. 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

Deadline for manuscript
submissions:

closed (20 July 2022)

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.





an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)