



Ionic Transport Membranes

Guest Editor:

Dr. Guangru Zhang

School of Chemical Engineering,
Nanjing Tech University, Nanjing
211899, China

Deadline for manuscript
submissions:

closed (20 May 2025)

Message from the Guest Editor

We are pleased to announce a Special Issue entitled "Ionic Transport Membranes" in the journal *Materials*. The Special Issue seeks contributions from esteemed researchers and experts in the field in order to elucidate various aspects of ionic transport membranes. We welcome both original research papers and comprehensive reviews addressing membranes crafted from diverse materials, such as polymers, ceramics, liquid, metals or hybrid compositions, and topics including, but not limited to, the following:

1. **New membrane materials** with enhanced properties and functionalities;
2. **Novel microstructures** for enhanced ion sieving capabilities;
3. **Characterization techniques** for assessing the performance and efficiency of ion transport membranes;
4. **Developments in membrane architecture** to optimize ion selectivity and transport rates;
5. **Advancements in manufacturing techniques** for the large-scale production of high-quality membranes;
6. **Membrane reactors** for integrated and efficient processes in various applications.





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)