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Advanced Water-Thermal Management and Gas Detection Technologies for Proton Exchange Membrane Fuel Cell

Guest Editors:

Dr. Zu-Guo Shen

Dr. Yulin Wang

Dr. Lihao Ma

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Message from the Guest Editors

Sharing the merits of zero emissions, high power density and rapid startup, proton exchange membrane fuel cell is regarded as the most promising candidate for next-generation power sources for transportation and portable applications.

Designing a cost-effective, high-performance proton exchange membrane fuel cell requires the proper organization of the transport of the reactants of hydrogen and oxygen, the product of water, and the generated heat. This Special Issue aims to provide a platform to exchange the recent progress on water-thermal management and gas (especially hydrogen) detection technologies for proton exchange membrane fuel cells. Research areas may include (but are not limited to) the following: water transport mechanism, heat transport mechanism, membrane design and fabrication, transport property measurement, and novel hydrogen detection technology. In this Special Issue, both original research articles and reviews are welcome.

We look forward to receiving your contributions.



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Special Issue



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Editor-in-Chief

Prof. Dr. Spas D. Kolev

School of Chemistry, The
University of Melbourne,
Melbourne, VIC 3010, Australia

Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375).

Membranes is an international, peer-reviewed open access journal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

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Contact Us

Membranes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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