Evaluation and Optimization of Fuel Cell Performance

Guest Editor:

Dr. Xinyu Zhang
Department of Mechanical, Materials and Manufacturing Engineering, The University of Nottingham Ningbo China, Ningbo 315100, China

Deadline for manuscript submissions:
20 September 2024

Message from the Guest Editor

This Special Issue on "Evaluation and Optimization of Fuel Cell Performance" will curate novel advances in research which either use modeling and simulation as an important component of the analysis of fuel cell systems using either commercial or open source software or present the development of new and better models of fuel cell systems or fuel cell components. Advances obtained using experimental methods are also welcomed.

To maximize impact, cell-scale multiphase flow modelling of PEMFC based on fundamental processes of the complex two-phase transport, full-scale PEM fuel cell models as well as research articles using open-source software are particularly welcomed.

Topics include, but are not limited to:

- The development of models or simulations of the electrochemical performance of fuel cell units;
- Simulation techniques, software, algorithms, or other tools for the modeling and simulation of transport phenomena in fuel cell units;
- Water management in PEM fuel cells;
- Design, analysis, control, preparation, optimization, operation, and manufacturing innovation of fuel cell systems, including fuel cell units and their auxiliary equipment.

Special Issue

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto
Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

Processes (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

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), Ei Compendex, Inspec, AGRIS, and other databases.
Journal Rank: JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

Contact Us