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Development of Advanced Models for Analysis and Simulation of Fuel Cells

Guest Editors:

Prof. Dr. Tomaž Katrašnik

University of Ljubljana, Faculty of
Mechanical Engineering, 1000
Ljubljana, Slovenia

tomaz.katrasnik@fs.uni-lj.si

Prof. Dr. Viktor Hacker

Graz University of Technology,
Austria

viktor.hacker@tugraz.at

Deadline for manuscript
submissions:

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Message from the Guest Editors

Dear Colleagues,

Guest Editors are inviting submissions to a Special Issue of Energies on “Development of Advanced Models for Analysis and Simulation of Fuel Cells”. To address the requirements on shorter product development cycles and reduced development costs, while boosting power density, efficiency, service life and safety, it is necessary to rely on advanced simulation models in the development process of fuel cells, their components, and fuel-cell-based systems. Simulation models are also indispensable for the analysis of fuel cells and for precise online monitoring.

To provide an answer to these challenges, this Special Issue will focus on but is not limited to the following topics: all types of fuel cells, their components, and fuel-cell-based systems; atomistic models; mesoscopic models; continuum models; multiscale models; scale bridging approaches and methodologies; reduced dimensionality models; models for interpreting EIS spectra; observer (SoX), online monitoring and control oriented models; advanced model parametrization tools.

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Special Issue



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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Room 32, Department of
Mechanical and Aerospace
Engineering, University of Roma
Sapienza, Via Eudossiana 18,
00184 Roma, Italy

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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Contact Us

Energies
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
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