Special Issue

Microfluidics and Nanofluidics: Theory, Methods and Applications

Message from the Guest Editors

As the proportion of new energy sources continuously increases, power systems face the challenge of insufficient flexibility in adjustment capabilities, making power balance and supply assurance increasingly difficult. There is an urgent need to explore comprehensive and interactive methods across all elements of generation, grid, load, and storage to thoroughly support the efficient and low-carbon transformation of power systems, including aspects such as operation, planning, market mechanism design, and policy analysis. Topics of interest for this Special Issue include, but are not limited to, the following:

- Generation–grid–load–storage interaction;
- Power system operation and planning;
- Renewable energy integration;
- Demand response management;
- Low-carbon transition;
- Low-carbon energy policy analysis;
- Market mechanism design;
- Energy storage solutions.

For more information on the Special Issue, please visit LINK https://www.mdpi.com/journal/applsci/special_issues/KS254V6OK6

Guest Editors

Dr. Amer Alizadeh

College of Engineering and Physical Sciences, University of Birmingham, Birmingham, UK

Prof. Dr. Chiyu Xie

School of Astronautics, Beihang University, Beijing, China

Dr. Wenhai Lei

KTH Royal Institute of Technology | KTH, School of Engineering Sciences (SCI), Stockholm, Sweden

Deadline for manuscript submissions

closed (10 December 2024)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/202406

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)