

Special Issue

Advances in Numerical Modeling and Applications in Energy and Environment

Message from the Guest Editors

To name a few topics, we draw attention to studies focusing on environmental fluid mechanics involving some combination of numerical simulations, experiments, and theoretical analysis. We welcome topics that include but are not limited to the following:

- Numerical modeling and computational fluid dynamics simulation in environmental fluid mechanics;
- Optimization of parameters in the problems in the fields of environmental science, for instance: air, surface, and subsurface degradation or pollutions, atmospheric environment, buildings, urban and industrial environments, etc.;
- Application of latest developments in renewable energy converters (such as wind, solar, wave) using computational simulations;
- Visualization of complex flow in turbulent regimes;
- Fundamental understanding of thermo-dynamics/chemical/physical in environmental fluid flows;
- Unique numerical and experimental techniques in buoyancy-driven turbulent flows (bushfire enhanced wind, fire whirl/tornado, columnar or convection vortices, etc.);
- Current challenges in environmental fluid mechanics.

Guest Editors

Dr. Esmaeel Eftekharian

School of Mechanical and Manufacturing Engineering, The University of New South Wales, Sydney, NSW 2052, Australia

Dr. Robert H. Ong

School of Civil Engineering, University of Sydney, Darlingtown, New South Wales 2006, Australia

Deadline for manuscript submissions

closed (31 July 2022)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 8.3



mdpi.com/si/104599

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

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 8.3



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, 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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)