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Ocean Energy Conversion and Magnetohydrodynamic Power Systems

Guest Editors:

Dr. Lingzhi Zhao

Institute of Electrical Engineering,
Chinese Academy of Sciences,
Beijing 100190, China

Dr. Ahmed F. Zobaa

Electronic and Electrical
Engineering Department, Brunel
University London, London UB8
3PH, UK

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Message from the Guest Editors

Dear Colleagues,

Climate change is the biggest challenge faced by our planet today. With the ocean covering more than 70% of the Earth, ocean energy is an enormous clean, renewable resource. Harnessing the power of ocean energy can ensure global energy security and achieve targets of global clean energy generation and CO₂ reduction. This has promoted the development of ocean energy conversion technologies. At the same time, the acceleration of ocean energy converters has contributed to advances in electric generator technologies. Magnetohydrodynamic (MHD) power generation is a relatively new and direct technology. Topics of interest include, but are not limited to the following:

- All types of ocean energy conversion, such as tidal, wave, current, thermal energy, salinity gradient energy, and so on;
- Marine wind–solar–wave/wind–wave complementary power generation;
- MHD generators for ocean energy conversion and other applications;
- Other marine energy developments and utilizations;
- Marine MHD propulsion;
- Power conversion and control of ocean energy power generators.



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Dr. Lingzhi Zhao
Dr. Ahmed F. Zobaa
Guest Editors

Special Issue



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Editor-in-Chief

Prof. Dr. Enrico Sciubba

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

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