Special Issue

Studies on Nuclear Reactors

Message from the Guest Editor

In the pursuit of the goals of achieving peak carbon emissions and carbon neutrality, nuclear energy, as a clean energy source, is an effective way of meeting global energy demands. The application of nuclear reactors has been increasing, not only in electricity supply, but also in heat supply, seawater desalination, high temperature hydrogen production, etc. In recent years, many innovative nuclear reactor concepts, including molten salt reactors, very high temperature reactors, gas-cooled fast reactors, lead-cooled fast reactors, sodium-cooled fast reactors, and supercritical water reactors, have been proposed. Furthermore, nuclear reactors are designed at different scales (small modular reactors, microreactors, etc.) for specific application scenarios, such as mobile power supply, deep-sea operation, and space operation. This Special Issue aims to present and disseminate the most recent advances related to the theory, experiment, design, and application of all types of nuclear reactors.

Guest Editor

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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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