

Special Issue

Advances in Nuclear Power for Integrated Energy Systems

Message from the Guest Editors

The topics of interest for publication in this Special Issue include, but are not limited to, the following:

- Analyses of designs for full plants or specific subsystems that couple advanced reactors to other energy resources, such as photovoltaic energy, wind energy, hydroelectric energy and the production of chemicals, steel, cement, pulp and paper, and fuels, such as hydrogen;
- Modeling, experimental results and cost analysis of designs for advanced reactors for electrical and thermal power dispatch;
- Modeling or assessments of innovations, such as electric energy storage, thermal energy storage, and hydrogen production and storage, that potentially increase the dispatchability of advanced nuclear power;
- Modeling or assessments of technologies that potentially increase the value or market opportunities for advanced nuclear power, such as temperature augmentation of reactor heat for high-temperature industrial applications;
- Economic assessments of integrated energy systems that take advantage of advanced nuclear power to reduce society's dependence on polluting fossil fuels.

Guest Editors

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Deadline for manuscript submissions

closed (8 April 2025)



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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.

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