Special Issue

Expanding Nuclear Applications and Technologies for a Clean Energy Future

Message from the Guest Editors

As the world enters a formative period of transition to clean energy economies, commercial nuclear energy markets enter their sixth decade of existence.

This Special Issue seeks to contribute to the understanding of the potential for a new class of nuclear technologies, nuclear operations, and deployment approaches in establishing the foundation for clean energy economies, as well as to the deep understanding of related technology, and to describe social and policy issues key to realizing the potential of the technology. To this end, we invite papers describing advances in novel small reactor designs and enabling technologies and techniques key to their deployment, such as the use of digital twins, advanced monitoring and controls, and other techniques; systems integration and hybridization architectures and enabling technologies including energy storage, hydrogen generation, and carbon conversion using nuclear energy; and research and development focused on next-generation nuclear technology acceptance in a variety of socioeconomic environments.

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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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