

Special Issue

New Advances and Novel Technologies in the Nuclear Industry

Message from the Guest Editors

This special issue “New Advances and Novel Technologies in the Nuclear Industry” aims to present and disseminate the latest advances and novel technologies in the existing and advanced nuclear energy systems. Nuclear power generation can be dated back to 1957 and has experienced three phases: Gen-I, Gen-II and Gen-III nuclear reactor systems. In the wake of the Gen-IV advanced nuclear reactor systems being proposed in 2002, the nuclear energy industry has been advancing toward two categories: evolutionary reactors and revolutionary reactors. With the growing demand on the exploration of ocean/space and off-grid electricity supply for the remote areas, micro nuclear reactors and small modular nuclear reactors have also attracted growing attentions worldwide. In parallel with the progresses in nuclear reactor concept, many novel and advanced technologies in material, automatic control and computing science have been continuously introduced to nuclear industry, which significantly promoted the development of nuclear industry. Reviewing and presenting the latest advances in the nuclear industry would provide a valuable reference for scholars involving related researches.

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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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