

Special Issue

Nuclear Reactor Safety and Desalination System

Message from the Guest Editors

Nuclear energy is a clean source of energy with a number of useful applications in various fields. However, all these applications depend upon the 4S safety concept which is related to the design and operation of nuclear reactors. Therefore, innovation in the design is a key aspect. Further, modularization in the design, cost effectiveness and inherent safety features are important to consider. Since water is in scarcity in various parts of the world, desalinating water by using nuclear power is a sustainable solution. Further, economic, public views, coastal, atmospheric and marine impacts are very important to consider for safe operation. Therefore, this Special Issue covers nuclear power reactor design, operational aspects, state-of-the-art nuclear desalination systems, social aspects and economics of nuclear desalination, and coupled nuclear hybrid energy systems. Submissions on novel concepts and innovations in these areas of research are appreciated.

Keywords: Nuclear reactors; Reactor design innovations and operations; Nuclear desalination; Techno-socio-economic(TSE) aspects

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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