Special Issue

Nuclear Wastes Management

Message from the Guest Editors

Nuclear waste management technology of has made considerable progress since the 1990s, including the demonstration of the feasibility of separation and burning of plutonium and minor actinides at laboratory scale in order to make nuclear technology a more viable option in the clean energy mix. However, the technologies are now at a crossroads, requiring a major leap from laboratory-scale demonstration to industrial demonstration and application. This requires a serious rethinking of the approach to identify the ideal next steps and substantial research to progress into the next level. **Keywords** nuclear waste management; partitioning; transmutation; advanced reactors; reprocessing; actinide separation; waste burners; fast reactors; accelerator-driven systems; molten salt reactors; fuel cycle scenario; national and international programmes; advanced fuel cycle; advanced fuels; closed fuel cycle; recycling; waste management strategies; re-use of actinides; waste storage; nuclear energy; final disposal; geological disposal; waste conditioning

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Deadline for manuscript submissions

closed (20 February 2022)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/53006

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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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