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Nuclear Wastes Management

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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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Message from the Editor-in-Chief

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