Special Issue

Current Status and Prospects of Environmentally Friendly Sludge Dewatering, Solidification and Stabilization Technology

Message from the Guest Editors

Sludge is an inevitable by-product generated by the transformation of pollutants or sediments converted from pollutants during wastewater treatment or water environment remediation processes. Various toxic substances, such as pathogens, heavy metals, and organic pollutants, make the safe disposal of sludge a crucial step for the secondary pollution control of water pollution control. High moisture content is one of the main limiting factors of the resource/energy recovery and disposal of sludge. Dewatering can minimize the sludge volume, facilitate the transportation, and increase the calorific value. Thus, dewatering commonly acts as the essential step of different sludge treatment routines. However, sludge presents a stable state with water–solid infiltration, which is difficult to be dewatered without pretreatment. Aiming at highly efficient dewatering of sludge, the multiple influencing factors on sludge dewaterability should be systematically analyzed and more efforts should be devoted to improving sludge dewaterability by various approaches with minimal consumption of chemicals and energy.

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