



Sludge: A Renewable Source for Energy and Resources Recovery

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Message from the Guest Editor

Sludges are generally characterized by high organic and solids contents. Increasingly stringent environmental laws and discharge/disposal standards have forced sludge generators and wastewater treatment plant operators to adopt suitable sludge treatment and management strategies. Advances in sludge treatment techniques have made it possible to view sludge as a resource rather than a waste.

Sludge can be used beneficially for the recovery of energy in terms of biofuels (solid, liquid and gas), recovery of nutrients (nitrogen and phosphorus) and production of fertilizers, adsorbents, and construction material. Anaerobic digestion, gasification, incineration, pyrolysis, wet air oxidation, and supercritical oxidation are some examples of available technologies for resource recovery from sludge.

This Special Issue aims to address the application of various technologies for the treatment and management of sludge with a focus on resource recovery to enhance environmental sustainability. Original research papers and critical reviews will be welcomed.





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