



Advances on Sustainable Treatments for Sewage Sludge and Wastewater

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Message from the Guest Editors

Significant amount of wastewater and the byproducts sewage sludge are generated due to increasing population and rapid urbanization. Low carbon sustainable treatments have been developed to recover energy (biogas, carbon material, syngas, etc.) and nutrients (protein, phosphorus, organic acids, etc.) from this waste. However, additional options for the sustainable treatment of sludge and wastewater are required due to the significant amounts of them, high levels of nutrients (e.g., C, N, and P), unstable but great potential of contaminant risk constituents. For example, the combination of thermal and biological treatment of sludge has recently been recognized as a promising technology to reduce waste volume, efficiently recover bioenergy (e.g., biogas), destroy organic contaminants, and eliminate pathogens.





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Message from the Editor-in-Chief

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