



Resource Recovery and Reuse for Urban Sustainability and Ecological Development (R3USED)

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Message from the Guest Editors

The rapidly increasing population and urbanization demand a more sustainable form of development for cities. The urban area, a complex system of infrastructures including transportation, electrical, drinking water, and sewage networks, needs to be designed in a more efficient and effective way to provide a healthy and sustainable environment for human and natural communities. In order to achieve this, it is necessary to embrace the principles of a circular economy by shifting waste management from dissipative to circular pathways. In the near future, modern cities should be reshaped as zero-waste regenerative urban areas founded on a sustainable management of land, water, air and energy, which calls for innovative technologies to be implemented in waste treatment plants to boost resource recovery and reduce greenhouse gases emissions. This Special Issue welcomes papers proposing practical and ecofriendly solutions promoting resource recovery and recycling from water, gas, and solid waste streams. Papers presenting applications of innovative technologies at pilot- and full-scale level and reprocessing of recovered materials into value-added end-products are highly welcome.





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Message from the Editor-in-Chief

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