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Environmental Catalysis/Adsorption for Organic Waste Resource Disposal

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Message from the Guest Editors

Novel or improved catalysts/adsorbents with unique physiochemical properties or functional groups could offer numerous opportunities to solve the issues related to organic waste resource disposal (OWRD). For instance, catalytic isopropanol oxidative dehydrogenation to acetone was successfully achieved using a bimetallic Au-CuO catalyst with a Janus structure; also, aromatic volatile organic compounds can be effectively removed and recycled with supported sulfuric acid via the reaction-type adsorption mechanism, among others.

This Special Issue invites researchers to contribute original research articles and reviews focusing on environmental catalysis/adsorption for organic waste resource disposal. The content scope covers but is not limited to the following aspects:

- Design and synthesis of catalysts/adsorbents with enhanced performance
- Development of new supports and immobilization strategies
- Catalytic processes for OWRD
- Reactive adsorption for OWRD
- Mechanistic and theoretical understanding of the catalysis/adsorption process as applied in OWRD
- Catalysts for VOCs resource disposal
- Catalysis and resource utilization of organic pollutants