

Special Issue

Environmental Catalytic Applications of Waste-Derived Materials

Message from the Guest Editors

In recent decades, many researchers have been making significant efforts toward the transformation of hazardous wastes into high-added value products. This is the case for catalytic materials from waste-derived streams, such as carbon-based catalysts prepared from biomass wastes, inorganic catalysts from ashes or metal slags, organic metal frameworks, and nanostructured carbon catalysts from plastic wastes or catalysts from food industry wastes, among others. This field of research is undoubtedly making progress in the mitigation of the environmental impact of solid wastes as well as developing novel catalytic materials from renewable and low-cost sources, decreasing their cost production. The purpose of this Special Issue is to provide the latest research progress and state of the art of processes developed for the preparation of novel catalysts derived from solid wastes and their application in environmental catalytic processes, such as wastewater treatment, gas emission control, CO₂ capture and conversion into platform chemicals or hydrogen and syngas production, and biodiesel production, among others.

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