Special Issue

Catalyst Materials for Waste Treatment

Message from the Guest Editors

Recently, catalyst materials have been widely employed in different advanced oxidation processes such as photocatalysis, periodate activation, Fenton-like reactions, and persulfate activation for the effective remediation of industrial effluents and plastic waste before their discharge into water streams. Further, researchers have focused on converting waste material into nanomaterials and their application in treatment systems as catalysts. This Special Issue will cover topics related to waste treatment issues including different techniques used for the preparation of nano-catalysts, the application of catalysts for the purification of different pollutants and depolymerization of plastic waste, and the conversion of wastes to value-added products for application in waste treatment. Thus, the aim of this Special Issue is to develop catalysts for treating waste materials, optimize degradation systems to efficiently degrade emerging pollutants using catalyst-based advanced oxidation processes, and manage waste materials by converting them into valuable products and employing them in waste treatment.

Guest Editors

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

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