Special Issue

Recent Catalytic Progresses for Environmental Remediation and Pollutant Degradation

Message from the Guest Editors

Contemporary research encourages the deployment of innovative catalytic processes to mitigate health concerns and curtail the operational expenses associated with chemical additives during aquatic remediation endeavors. Elements, such as inorganic ions, natural organic materials, trace metallic cations, nanoparticles, microplastics, and other inherent environmental substances, can be harnessed to initiate catalytic reactions, targeting the degradation of pollutants, particularly the emerging contaminants. Furthermore, functional materials with expansive surface areas and a good catalytic ability can active oxidants like H2O2, O3, persulfate, peracetic acid, and permanganate with low dosage, and even utilize O2 to decompose pollutants. This Special Issue aims to cover the reaction mechanisms and the roles of reactive species in novel catalytic processes and materials, with a special focus on the degradation of emergent contaminants and environmental remediation in reused, waste-, surface, and groundwater.

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