Special Issue

Catalysis in Pollution Degradation and Environmental Remediation

Message from the Guest Editors

Due to the global population growth and rapid industrialization in recent decades, a large amount of pollutants (e.g., heavy metals, cosmetics, pharmaceuticals and personal care products, pesticides, antibiotics, microplastics) have been intentionally or accidentally discharged into water, air, and soil, leading to serious worldwide environmental pollution. In light of their increasing threats to all living organisms, novel technologies, which mostly depend on catalysis, have been explored to effectively transform harmful pollutants into less toxic substances and to remediate the environment. Therefore, key areas of this Special Issue include developing advanced catalysts and processes, understanding their mechanisms, and optimizing their performance under various conditions. This Special Issue also focuses on practical applications, such as integrating these technologies into industrial processes, making them scalable, cost-effective, and adaptable to diverse environmental challenges.

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