

## Special Issue

# Novel Catalytic Techniques for Reducing Organic Pollutants

### Message from the Guest Editor

Modern catalytic techniques for reducing organic pollutants focus on achieving more efficient and environmentally friendly degradation of toxic compounds in water, air, and soil. Among the most promising approaches are heterogeneous catalysts (metal nanoparticles, metal oxide catalysts, MOFs), which accelerate oxidation processes while reducing energy consumption. Significant attention is given to photocatalytic systems that use light to activate the catalyst, as well as electrocatalytic methods, which enable controlled decomposition of pollutants into safe end products. In addition, biocatalytic and enzyme-based systems are being developed for selective treatment of complex organic molecules. Overall, current trends aim for higher efficiency, stability, low toxicity, and catalyst regenerability.

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