Special Issue

Catalytic Materials for Hazardous Wastewater Treatment

Message from the Guest Editors

In recent years, functional materials in the shape of nanoparticles have been widely studied and developed, and successfully used for pollution removal and environmental applications. Wastewater pollution is considered as one of the most prominent issues of global public health. Recently, degradation of pollutants in aqueous solution based on nanoparticle catalysts has become an effective approach to address those issues. This Special Issue aims to attract high-quality short communications, original research papers, and review articles, including but not limited to the following areas:
1. The recent advances, developments and existing challenges linked to the use of nanoparticles and nanocomposites catalysts in the treatment of hazardous organic dye polluted wastewater.
2. Articles that highlight oxide and metal nanomaterials synthesis, and related properties (transport, optical, micro-structural, morphological, nanostructuring, ...).
3. Theoretical papers about organic dye decomposition, including reaction mechanisms and crucial parameters.

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