



Recent developments and application of bimetallic-based materials in water purification

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Abstract:

In the present work, we would like to delve into some of our recent research endeavours concerning the synthesis and applications of bimetallic nanomaterials to remove various pollutants from water sources.

Objective:

- ✓ Adsorptive and photocatalytic performance of perovskite ($\text{La}_2\text{Ce}_2\text{O}_7$) material for the removal of food dye in an aqueous solution.
- ✓ Investigation on water defluoridation via batch and continuous mode using Ce–Al bimetallic oxide: Adsorption dynamics, electrochemical and LCA analysis.

Results:

