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Special Issue Reprint

Advanced Nanomaterials for Water Remediation (2nd Edition)

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The rising presence of persistent and emerging contaminants in our water sources presents a significant challenge to traditional treatment methods. This Special Issue showcases groundbreaking research on how nanotechnology and advanced materials can deliver innovative solutions to tackle this urgent issue. The published contributions cover a wide range of nanomaterials, including metal oxides, plasmonic and magnetic systems, bio-based and polymeric materials, and hybrid nanocomposites, and employ several mechanisms, such as advanced oxidation processes, adsorption, and integrated catalytic–physical approaches. Importantly, several studies move beyond laboratory-scale experiments to address flow reactors, hybrid systems, and portable devices under realistic conditions.

This Special Issue takes interest in innovative materials, eco-friendly synthesis methods, sustainability, and ecotoxicity assessments. It aims to connect fundamental research with real-world solutions for water decontamination, emphasizing a practical approach.

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