Call for Book Chapters/Research Paper for Edited Book

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Magnetic MXenes and theirNanocomposites for Wastewater Remediation

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Call for Chapters

Magnetic MXenes and their Nanocomposites for Wastewater Remediation

Aims and Scope:

The proposed book aims to comprehensively explore the diverse applications and advancements of Magnetic MXenes and their nanocomposites in water treatment technologies. By integrating fundamental principles with cutting-edge research, the book aims to bridge the gap between theoretical understanding and practical implementation, making it a valuable resource for researchers, academics, and professionals in the field.

Book Chapters Contents:

1. Introduction to Mxene-Magnetic Nanocomposites:
1.1 Overview of Nanomaterials
1.2 Fundamental Properties of Mxene
1.3 Synthesis and Characterization of Magnetic-Mxene Nanocomposites
1.4 Overview of Applications and its Challenges and Limitations
1.5 Environmental Significance

2. Magnetic-Mxene Nanocomposites in Adsorption Technologies:
2.1 Adsorption Mechanisms
2.2 Target Contaminants for Adsorption
2.3 Heavy Metal Removal using Magnetic-Mxene Nanocomposites
2.4 Organic Pollutant Adsorption
2.5 Advances in Adsorption Technology

3. Magnetic-Mxene Nanocomposites for Catalytic Water Treatment:
3.1 Catalytic Properties of Mxene
3.2 Types of Catalytic Reactions
3.3 Synergistic Effects with Magnetic Properties
3.4 Applications of Advanced Oxidation Processes
3.5 Photocatalysis Applications
3.6 Heterogeneous Catalysis
3.7 Future Directions in Catalytic Technologies

4. Magnetic-Mxene-Based Membrane Technologies:
4.1 Membrane Fabrication Techniques
4.2 Design of Magnetic-Mxene Hybrid Membranes
4.3 Separation Mechanisms
4.4 Filtration and Pervaporation Applications
4.5 Membrane Performance Metrics
4.6 Challenges and Innovations in Membrane Design

5. Environmental Impacts and Safety Considerations:
5.1 Life Cycle Assessment of Magnetic-Mxene Nanocomposites
5.2 Ecotoxicity Studies
5.3 Health and Safety Considerations
5.4 Regulatory Compliance
5.5 Risk Assessment and Management
5.6 Environmental Monitoring and Reporting

6. Future Perspectives and Emerging Trends:
6.1 Ongoing Research and Development
6.2 Innovations in Synthesis Techniques
6.3 Collaborative Interdisciplinary Research
6.4 Policy and Funding Implications
6.5 Ethical Considerations in Technology Development
6.6 Sustainable Nanotechnology Futures

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