

Special Issue

Hybrid and Hierarchical Zeolite-Based Platforms for Sustainable Remediation and Resource Recovery

Message from the Guest Editors

Zeolite-based materials are advancing with improvements in porosity, nanoscale structures, and hybrid designs that combine metal–organic frameworks (MOFs), carbon materials, biochar, polymers, and other porous components. These systems show great promise for tackling environmental issues like removing PFAS, heavy metals, microplastics, pharmaceutical residues, and oxyanions from water, air, and soil. This Special Issue focuses on innovative zeolite materials—natural, synthetic, composite, hierarchical, and nano-engineered—for sustainable remediation and circular recovery. It highlights the relationship between structure, porosity, surface chemistry, and contaminant interactions, as well as regeneration, scalability, and lifecycle considerations. Submissions on adsorption, catalysis, multifunctional platforms, *in situ/operando* studies, modeling, and real-world applications are encouraged, with the goal of advancing zeolite-based solutions that are efficient, selective, and environmentally sustainable.

Guest Editors

Dr. Annalisa Martucci

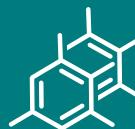
Department of Physics and Earth Sciences, University of Ferrara, 44122 Ferrara, Italy

Dr. Maura Mancinelli

Department of Basic and Applied Sciences for Engineering, Interdepartmental Research Center on Nanotechnologies Applied to Engineering, Sapienza University of Rome, 00161 Rome, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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