

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.

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As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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