Special Issue

Applications of Magnetic Materials in Water Treatment

Message from the Guest Editors

In the field of water treatment materials, the phenomenon of residues is a major constraint for implementing urban wastewater treatment and restoration. Uncontrolled suspensions prolong the sedimentation time and increase operational costs. The application of magnetic fields in water treatment processes has been shown to enhance the efficiency and effectiveness of these processes. The presence of a magnetic field can have a significant impact on various aspects of water treatment. However, the current theoretical framework mainly focuses on evaluating the efficiency of magnetic materials in water treatment and the role of magnetochemistry throughout the treatment process, without a detailed exploration of its mechanisms. Various experts have been devoted to developing this promising field. They have demonstrated the effectiveness of magnetic water treatment materials. This Special Issue aims to disclose cutting-edge research articles that have an impact on the application of magnetic nanomaterials in water pollution control. Researchers are invited to submit original research papers on topics such as magnetic catalysts, coagulants/flocculants, adsorbents, etc.

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Deadline for manuscript submissions

closed (30 April 2025)

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About the Journal

Message from the Editor-in-Chief

Magnetochemistry constitutes a multidisciplinary field where chemists and physicists not only study magnetic properties but also design and synthesize chemical compounds with desired magnetic properties. *Magnetochemistry* is inviting contributions in any field related with this area, such as theoretical models, crystal engineering, molecular magnetism, SMM, SIM, SCM, SCO, magnetic nanostructures, magnetic MOFs, magnetic recording, qubits, magneto-caloric materials, etc. Our goal is to share your contribution in a timely fashion and in a manner that will be valued by the scientific community.

Editor-in-Chief

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