

Special Issue

Recent Advances in Biosorbents: Enhanced Strategies for Contaminant Adsorption

Message from the Guest Editors

In this Special Issue, topics of interest include, but are not limited to, the following:

- The removal of emerging pollutants, such as pharmaceuticals, microplastics, and heavy metals, using biosorbents;
- Advances in the development of new biosorbents from natural sources and synthetic materials;
- Strategies to enhance adsorption capacities and selectivity through surface modification and functionalization;
- Understanding the underlying mechanisms governing adsorption processes at molecular and macroscopic levels;
- The development and application of hybrid materials, combining biosorbents with other adsorptive or catalytic materials to enhance their performance;
- Techniques for regenerating spent biosorbents and evaluating their reusability in adsorption processes;
- The use of computational tools and simulation techniques to predict adsorption behavior and optimize biosorbent design;
- Scaling up biosorbent production and integrating biosorbents into large-scale environmental and industrial applications;
- The assessment of the environmental footprint and sustainability aspects of biosorbent-based technologies compared to traditional adsorbents;

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Guest Editors

Dr. Aleksandra Ivanovska

Dr. Biljana P. Dojčinovic

Dr. Vesna M. Vasić

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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