Special Issue

Plant- and Microbial-Based Novel Biosorbents

Message from the Guest Editors

Protecting aquatic ecosystems from pollution caused by anthropogenic activities is a major challenge. Since surface and groundwater are often contaminated with various organic and inorganic compounds, various methods are researched and developed to remove pollutants from water and wastewater, of which adsorption is the most commonly used due to its versatility, ease of application, and efficiency. The main problem with the use of conventional adsorbents is the price and fact that regeneration is not straightforward and may result in reduced adsorption capacity and also the disposal of spent adsorbents. Therefore, widely available and cheap materials, such as plant- and microbial-based, are investigated as possible low-cost adsorbents, either in their native or modified forms. The adsorption capacities of native biosorbents are often lower than the conventional adsorbents, so attempts are made to improve adsorption capacities through various modification techniques, including physical, chemical and biochar. This Special Issue deals with the development and application of novel plant- and microbial-based biosorbents for the effective removal of pollutants from water and wastewater.

Guest Editors

Dr. Marija Stjepanović

Dr. Natalija Velić

Prof. Dr. Mirna Habuda-Stanic

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

mdpi.com/journal/water

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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