Special Issue

Advances in Wastewater Treatment: Adsorption Mechanism, Isotherms, Kinetics and Reusability

Message from the Guest Editor

Increased industrialization and excessive use of toxic chemicals have caused severe water contamination problems. Nowadays, there is a continuously increasing worldwide concern regarding the development of more effective techniques for wastewater treatment. Particularly, adsorption has long been considered to be a readily available technology for the treatment of wastewater due to its high efficiency, low cost, flexible design, ease of operation, and the possibility of reusing its adsorbent. However, the growing number of novel adsorbents and aqueous contaminants make adsorption processes more complicated with respect to adsorption mechanisms, isotherms and kinetics. Furthermore, the development of low-cost, highly efficient, and reusable adsorbents has led to the rapid growth of research interests in this field. This Special Issue aims to provide selected contributions on the wastewater treatment process by adsorption technology using various adsorption processes. I warmly invite researchers to contribute original research articles as well as review articles that address adsorption mechanisms, isotherms, kinetics and reusability in wastewater treatment.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2023)

Water

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 6.7

mdpi.com/si/113258

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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

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