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Sorption Processess in Wastewater Treatment: Current State of Knowledge and Future Opportunities

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Message from the Guest Editors

Water plays an important role in both the drinking water supply and the economic sector, and is one of the basic factors for all life and human survival. Depending on wastewaters origin, these wastewaters can contain many harmful and toxic substances that pose a real threat to aquatic ecosystems, life, as well as human health. The effective wastewater treatment is an essential part of green chemistry and sustainable development. Over the past few decades, among physicochemical removal methods, adsorption has gained prominence. It is now well established and widely used method for both purification, decolorization and separation, recovery or concentration. Removal of harmful substances from water and wastewater, recycling of waste materials, and recovery of substances of economic importance or at risk of shortage is now a priority task. Increasing requirements for standards and limits on wastewater discharged into the environment have resulted in continuous and intensive work on the development of new and selective sorbents that will be able to reduce the pollutant load to an acceptable level.

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Message from the Editor-in-Chief

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.

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