



an Open Access Journal by MDPI

Advances in the Removal of Pollutants in Wastewater

Guest Editors:

Dr. Nhamo Chaukura

Department of Physical and Earth Sciences, Sol Plaatje University, Kimberley 8301, South Africa

Prof. Dr. Alex Kuvarega

Institute for Nanotechnology and Water Sustainability, College of Science, Engineering and Technology, University of South Africa, Florida 1709, South Africa

Prof. Dr. Rangabhashiyam Selvasembian

Department of Biotechnology, School of Chemical and Biotechnology, SASTRA University, Thanjavur 613401, Tamilnadu, India

Deadline for manuscript submissions: closed (1 July 2023)



mdpi.com/si/96608

Message from the Guest Editors

Dear Colleagues,

Rapid population growth has seen а rise in industrialization and the concomitant generation of a range of pollutants. Thus, polluted wastewaters end up in the aquatic environment and pose ecological and human health risks. Some of these pollutants are recalcitrant to treatment. Adsorption is an effective wastewater treatment method. Apart from being cost-effective, it uses materials that are easy to synthesize, can be tailored to target particular pollutants, and can be regenerated for multiple reuses. Besides this, adsorption methods are easily integrated with other methods to completely mineralize pollutants. The use of nanomaterials for the removal of pollutants is effective owing to their desirable properties, arising due to their smallness of size.

This Special Issue aims to:

(1) discuss different nanomaterial synthesis and characterization methods

(2) evaluate the effectiveness of nanomaterials in water treatment

(3) identify research gaps and recommend future research directions on the use of nanomaterials in wastewater treatment.







an Open Access Journal by MDPI

Editor-in-Chief

Message from the Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec,

CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/applsci applsci@mdpi.com X@Applsci