Special Issue

Application of Carbon Fibers in Adsorption

Message from the Guest Editors

Carbon fibers are around 5 to 10 micrometers in diameter and composed mostly of carbon atoms. Carbon fibers have numerous advantages in application: high strength to weight ratio, high chemical resistance, high-temperature tolerance, and low thermal expansion. These properties have made carbon fiber very popular in water treatment. To produce carbon fibers, the carbon atoms are bonded together in crystals that are more or less aligned parallel to the fiber's long axis, as the crystal alignment gives the fiber a high strength-to-volume ratio. Carbon fibers are usually combined with other materials in developing novel composites. Carbon fibers provide a novel approach to address water treatment issues. This Special Issue aims to highlight the recent research in carbon fiber composites used in wastewater treatment. Contributions to this Special Issue, which may be in the form of original research papers or review articles, may cover any aspect of the production, characterization, and laboratory- or field-scale applications of carbon fiber composites used in wastewater treatment.

Guest Editors

Dr. Ntaote David Shooto

Applied Chemistry and Nano Science Laboratory, Department of Biotechnology and Chemistry, Vaal University of Technology, P.O. Box X021, Vanderbijlpark 1900, South Africa

Prof. Dr. Fanyana M. Mtunzi

Institute of Chemical and Biotechnology (ICBT) Center, Vaal University of Technology, Vanderbijlpark 1900, South Africa

Deadline for manuscript submissions

closed (30 December 2023)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/150060

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)