



Environmental Applications of Biochar on Emerging Contaminants

Guest Editor:

Prof. Bing Wang

Colleague of Resources and Environmental Engineering, Guizhou University, Guiyang 550025, China

Deadline for manuscript submissions:

closed (31 October 2021)

Message from the Guest Editor

Emerging contaminants (ECs), a group of relatively low-concentration but high-toxicity pollutants in the environment, have attracted widespread attention in recent years. These trace pollutants can stay in the environment for a long time. They can be enriched in organisms and finally transferred to human bodies through the food chain, posing a potential hazard to public health and the ecological environment. As a novel adsorbent, biochar has been widely used in the removal of organic and inorganic pollutants in the environment. Currently, there are many studies on the removal of ECs from water by biochar. These studies explore different preparation and modification methods to functionalize biochar with various physicochemical properties, resulting in distinct adsorption effects, behaviors, and mechanisms of biochar on different ECs. However, a more detailed understanding of the toxicity of these pollutants, the removal of resistance genes, and the adsorption mechanism has not yet been obtained. Therefore, the adsorption behavior and mechanism of biochar to ECs need to be extensively studied.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

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

High Visibility: indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)