



## Environmental Applications of Biochar on Emerging Contaminants

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Deadline for manuscript  
submissions:

**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.





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