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Functions of Biochar in Carbon Emission and Carbon Sequestration in Forest Ecosystems

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Deadline for manuscript
submissions:

26 September 2024

Message from the Guest Editor

Biochar is widely applied in agriculture, and many studies have shown the effects of biochar input on soil and plant growth. However, the potential for carbon sequestration using biochar in forest ecosystems (which can fix vast amounts of organic carbon in both plant biomass and soil) has not been fully tested.

This Special Issue aims to collect and organize information on the effects of biochar application on various components of forest ecosystems, and to provide an outlook on the potential for carbon sequestration with biochar in forest ecosystems. In recent years, large-scale field biochar application experiments have been conducted in forest ecosystems, and the results of these studies will provide useful information on more realistic ecosystem responses that could not be revealed only through laboratory experiments. This Special Issue invites papers which focus on biochar applications in forest ecosystems. In particular, we welcome papers that demonstrate the effects of field biochar application experiments on ecosystem components or ecosystem functions. Papers on laboratory experiments conducted on forest soils or tree species are also included.



mdpi.com/si/148255

Special Issue



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