

Special Issue

Carbon Cycling in Mangrove Ecosystems

Message from the Guest Editors

Mangroves have been recognized as the most carbon (C)-rich ecosystem in the world. The ability of huge carbon sequestration should result from a highly productive ecosystem with low heterotrophic respiration under submerged anaerobic soil. On the other hand, a large fraction of the organic matter produced by mangrove trees is exported to the coastal ocean. Moreover, recent studies supported that most of the carbon being tidally exported from mangrove is dissolved inorganic carbon (DIC)—a result of organic matter mineralization as a part of heterotrophic respiration. Moreover, mangroves in different environments may produce and store C in different ways, and thus, the accumulation of local studies including various types of mangrove is very important. We encourage studies of carbon cycling in mangroves from all aspects, including forest structure and biomass, underground C dynamics, forest production and heterotrophic respiration in mangroves, lateral C flux with tide, conservation of mangroves to contribute to this Special Issue in order to promote knowledge of carbon cycling in mangroves and adaptation strategies for the preservation, and management of mangrove ecosystems.

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