

Special Issue

Carbon Cycling, Climate Change and Sustainability

Message from the Guest Editors

The surge in CO₂ and other greenhouse gas (GHG) emissions has caused a consistent increase in the Earth's temperature during the last few decades. The interactions between the land, atmosphere and ocean (LAO) try to limit GHG concentrations by balancing, absorbing and sequestering them. Nowadays, due to anthropogenic feedback, the sink and source of CO₂ have changed. Therefore, scientists should focus on ways to regulate these rapid changes. One of the fundamental methods of regulation is monitoring and analyzing the carbon cycle (CC). The monitoring of CC is a significant way of reusing carbon in a trip with four components, namely Photosynthesis, Decomposition, Respiration, and Combustion. Tracing and analyzing CC in LAO is challenging due to its complex feedback mechanism. CC is located at the core of climate change and sustainability. Hence, there is an urgent need to understand the interactions and feedback mechanism between CC and LAO and their relation to natural and anthropogenic climate change. Details can be found here: <http://mdpi.com/si/117911>

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