



Implications for Soil Respiration in Forest Carbon Sequestration

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Message from the Guest Editors

Dear Colleagues,

As the largest carbon efflux from terrestrial ecosystems to the atmosphere, soil respiration is essential to the global carbon balance. In this Special Issue on “Implications for Soil Respiration in Forest Carbon Sequestration”, we will report new insights of soil respiration interacting with forest diversity, root functional traits and soil microbial composition under global change, and new estimation of global/regional soil respiration and its components by machine learning and terrestrial ecosystem models.

Potential topics include, but are not limited to:

- 1.New understanding of the interplay between forest diversity and soil respiration;
- 2.New advances of soil respirations in response to global change;
- 3.Biogeochemical mechanisms between soil respiration and soil organic carbon composition;
- 4.Interactive effects of root functional traits and microbial composition on soil respiration;
- 5.Data-driven estimation of global/regional soil respiration and its components;
- 6.Improvements of terrestrial ecosystem models;
- 7.Uncertainty in estimating soil respiration at the local, regional and global scale.





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