

## Special Issue

# Implications for Soil Respiration in Forest Carbon Sequestration

### Message from the Guest Editors

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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### Guest Editors

Dr. Haibo Lu

Dr. Bingwei Zhang

Dr. Lingyan Zhou

Dr. Yi Wang

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### Deadline for manuscript submissions

closed (30 November 2023)



## Forests

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*Forests*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[forests@mdpi.com](mailto:forests@mdpi.com)

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### Message from the Editor-in-Chief

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### Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa

Department of Mathematics and Physics, Catholic University of Brescia,  
I-25121 Brescia, Italy

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