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Pathways to "Carbon Neutralization" in Forest Ecosystems

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Deadline for manuscript submissions:
31 March 2025

Message from the Guest Editors

Forests Ecosystems are the main body of the terrestrial ecosystem, which can absorb and stabilize the CO_2 in the atmosphere continuously, making it a huge carbon sink. Forming the main body of the terrestrial ecosystem, forests play a central role in the regional and global carbon cycles.

For this Research Topic, Original Research articles and Reviews are welcome. Including (but are not limited to):

1. Clarifying the spatio-temporal change pattern and environmental driving force mechanism of carbon sinks in typical forest ecosystems;
2. Investigating the interaction mechanism between forest carbon stock change, tree species diversity, and stand structure;
3. Studying management responses to formation, transformation, and stability of forest soil organic carbon for sequestration;
4. Proposing estimation methods for forest carbon storage and improving the potential of carbon neutrality, management technology, and countermeasures.

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Message from the Editorial Board

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Journal Rank: JCR - Q1 (Forestry) / CiteScore - Q1 (Forestry)

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