



Recent Research on Vegetation Restoration and Environmental Impacts

Guest Editor:

Dr. Wei Zhao

State Key Laboratory of Soil
Erosion and Dryland Farming on
the Loess Plateau, Institute of
Soil and Water Conservation,
Northwest A&F University,
Yangling 712100, China

Deadline for manuscript
submissions:

closed (20 May 2022)

Message from the Guest Editor

Vegetation restoration plays a vital role in improving soil structure and fertility and increasing carbon sequestration, which is one of the effective strategies to control soil erosion and alleviate climate change. During vegetation restoration, vegetation type, the chemical composition of the litter, geography and climate, soil type, and microbial community affect the litter decomposition. The trade-off between soil organic carbon input by litter decomposition and mineralization by microbe leads to carbon accumulation or emission following the vegetation restoration. Moreover, the SOC input can improve soil structure by increasing aggregate stability. The composition of SOC will affect the persistence of soil aggregate stability. Meanwhile, soil aggregate stability influences carbon sequestration potential.

The objectives of this Special Issue are to bring together contributions from different parts of the world on “Recent Research on Vegetation Restoration and Environmental Impacts” to better understand the mechanisms of vegetation restoration on ecological restoration and climate change.

Prof. Dr. Wei Zhao

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/Applsci)