





an Open Access Journal by MDPI

Plant Debris Decomposition and Soil Organic Matter Formation

Guest Editors:

Prof. Dr. Zhenfeng Xu

Institute of Ecology and Forestry, Sichuan Agricultural University, Chengdu 611130, China

Prof. Dr. Xiangyin Ni

School of Geographical Sciences, Fujian Normal University, Fuzhou 350007, China

Dr. Rui Yin

Helmholtz-Centre for Environmental Research-UFZ, Department of Community Ecology, Theodor-Lieser-Strasse 4,06110 Halle (Saale), Germany

Deadline for manuscript submissions:

closed (31 December 2022)

Message from the Guest Editors

This Special Issue aims to: (1) explore the 'decompositionformation' linkages between plant debris (i.e., foliar and root) and soil organic matter across forest ecosystems; and (2) further evaluate the effects of abiotic (e.g., temperature and moisture) and biotic (e.g., microbes and fauna) factors on these 'decomposition-formation' processes. We invite contributions that evaluate the decomposition patterns and controls of carbon and nutrient released from plant debris, and the formation and stabilization of plant-derived soil organic matter by presenting evidence from case studies on global syntheses. Studies evaluating the interactions of plant debris inputs and soil organic matter formation, as well as the contribution of soil biota to these processes, are warmly welcomed. Papers submitted to this Special Issue are expected to advance our understanding of the mechanisms underlying the plant pathways of soil organic matter formation, which is a critical step necessary to better represent the fate of carbon in soil biogeochemical models.











an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Cate Macinnis-Ng

Department of Biological Sciences, Faculty of Science, University of Auckland, Private Bag 92019, Auckland 1142, New Zealand

Prof. Dr. Giacomo Alessandro Gerosa

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

Message from the Editorial Board

Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access.

Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

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), Ei Compendex, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.

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

Contact Us