Impact of Afforestation on Soil and Hydrology in Agroecosystems

Guest Editors:

Dr. Makki Khorchani
School of Natural Resources, University of Nebraska, Lincoln, NE, USA

Prof. Dr. Rhae Drijber
Department of Agronomy and Horticulture, University of Nebraska, Lincoln, NE, USA

Dr. Anastasios Mazis
School of Natural Resources, University of Nebraska, Lincoln, NE, USA

Deadline for manuscript submissions:
closed (15 July 2024)

Message from the Guest Editors

Dear Colleagues,

Agricultural lands represent more than one-third of the global land surface and are often subject to changes in their land cover and use due to multiple reasons. The conversion of agroecosystems to forest areas, with the objective of restoring degraded croplands and pastures or changing the land use (biofuel production, creation of recreation areas, etc.), is often accompanied by significant changes to soil properties and water fluxes. Many studies have highlighted the beneficial impacts on soil health after afforestation in agroecosystem lands; however, increased water use by tree vegetation is of high concern to policymakers, particularly in areas of water stress. These tradeoffs between the impacts of afforestation on soils and on the hydrological cycle have sparked criticism of implementing man-made forests in land restoration programs and in climate change adaptation and mitigation. This Special Issue aims to further our knowledge about these tradeoffs and the potential of afforestation to improve soil health without endangering water availability.

mdpi.com/si/173659

Special Issue

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