Special Issue

Forest Soil Properties and Nutrient Dynamics under a Semiarid Climate

Message from the Guest Editor

Forest soil properties are crucial in the biogeochemical cycles of elements as important as carbon, nitrogen, phosphorus and other macro- and micronutrients. An understanding of their relationships is essential in order to quantify the impact of land use changes and climate change in semiarid environments. The degradation over time of forest soils by intensive or inappropriate human practices, or their recovery through ecological restoration, such as through afforestation, passive restoration and mining reclamation, must be exhaustively analyzed and modeled in these environments. Furthermore, the roles of the adaptive and carbon-based silviculture, pastoralism and wildfire are important research topics. The economic quantification and valuation of ecosystem services provided by semiarid forest soils, especially regarding the water cycle and carbon sequestration, should be a priority for their management and for policymaking.

Keywords
- ecosystem services
- land use change
- soil nutrient dynamics
- climate change
- semiarid
- soil management
- water cycle
- forest fire

Guest Editor

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Deadline for manuscript submissions

closed (20 October 2021)

Forests

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/si/82009

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