Special Issue

Plant-Soil-Microbe Interactions in Natural Soils

Message from the Guest Editor

Plant–soil–microbe interactions drive the biogeochemical process in the terrestrial ecosystem. In this system, plants release nutrients into the soil in the form of residue decomposition and root exudates, which improves the soil environment and supplies substrates to soil microorganisms, and microorganisms transform organic nutrients into inorganic nutrients for plant absorption and utilization. The synergistic relationship between plants, soil, and microorganisms is the internal driving force of maintaining ecosystem structure and functions, such as nutrient cycling, biodiversity conservation, and food provision. Plant–soil–microbe interactions have become a hot spot in soil ecology, plant science, and environment research. We especially encourage authors to conduct a profound investigation on the interactions of plant–soil–microbe in natural soils, such as grassland, shrub, forest, swamp, desert, and so on, and reveal the underlying mechanism between aboveground structure and belowground functions, such as the diversity–function relationship, nutrient–microbes associations, and rhizosphere dynamics.

Guest Editor

Prof. Dr. Chao Zhang

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

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Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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