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Soil Nutrient Dynamics and Plant Response

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Deadline for manuscript submissions:
closed (26 November 2021)

Message from the Guest Editors

The dynamics of macro and micro metal elements in the soil determines the efficiency of plant nutrient use, its productivity and its response to environmental changes to a great extent. Anthropogenic additions increase the availability of some chemical elements in industrialized areas altering the nutrient balance in the soil. Under natural conditions, other factors such as climate (especially temperature, precipitation and potential evapotranspiration) and water availability in the soil or atmospheric concentration of carbon dioxide limit plant production and reduce the importance of nutrients as limiting factors. For example, it is known that an increase in atmospheric carbon dioxide causes an increase in forest biomass in forests established on rich soils, but not in those found on poor soils.

We invite authors to present current research on how the nutrient cycle is affected by the interaction of global change and human activities. We also welcome presentations of studies related to the interaction between organic matter and soil minerals, the effect of soil contamination and degradation on its fertility and plant adaptations to increase efficiency in nutrient use.

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Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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