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Vermicompost in Sustainable Crop Production

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Deadline for manuscript submissions:
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Message from the Guest Editor

Sustainable crop production requires new means of fertilization in light of both the use of renewable resources and improving soil quality. The processing of biological waste by the concerted action of earthworms and microorganisms leads to the production of vermicompost—an organic fertilizer with high microbiological activity, rich in mineral nutrients and humic substances. The benefits from the application of vermicompost in agriculture are related to direct and indirect effects on crop plants as well as to the improvement of soil properties leading to a long-term increase in soil sustainability. However, the lack of understanding of specific mechanisms of beneficial influence hinders the ability to scientifically predict the outcome of vermicompost application in different crop production systems. Therefore, additional knowledge is necessary to characterize functional relationships involved in vermicompost production and after its application in soil.

Contributions to this topic are welcome reporting results both from laboratory and field studies concerning earthworm/microorganism/soil/plant interactions at different levels from vermicompost production to application.

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Special Issue

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Message from the Editor-in-Chief

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