Special Issue

Characteristics of Organomineral Fertilizers (OMFs) and Their Effects on Increasing Nutrient Use Efficiency, Biostimulant Effects, and Enhancing Crop Production

Message from the Guest Editors

The use of organomineral fertilizers (OMFs) has recently increased, and they mainly comprise fertilizers synthesized through processes such as composting, pyrolysis (biochar), and the use of humic substances. Compared with mineral fertilizers, OMFs can enhance crop productivity, especially in soil conditions where nutrients naturally have low use efficiency when applied via soil. The synthesis route used, as well as the properties and nutrient pools in OMFs, controls the efficiency of the applied nutrients. For some nutrients, reducing the amount of readily soluble nutrients while maintaining available fractions has a high correlation with nutrient crop demand, thus increasing their use efficiency.

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