

# Special Issue

## Phosphorus Utilization and Management in Agricultural Soil Systems

### Message from the Guest Editors

Phosphorus (P) underpins global food systems by ensuring soil fertility, maximizing crop yields, and supporting farmer livelihoods and ultimately food security. Historical P fertilization plays an important role in ensuring crop yield, but low P use efficacy (PUE) usually results in overuse of P fertilizer. This leads to chronic high-cost inputs and has adverse impacts on the environment. This issue focuses on improving P use efficiency and sustainability as well as mitigating P losses across agricultural systems. It aims to bridge fundamental soil processes with practical management strategies to optimize the P cycle. We highlight innovations such as carbon sources, enhanced-efficiency P fertilizers, biostimulants, bio-inoculants that improve plant P acquisition, breeding crops for higher PUE, and soil amendments to safeguard against P leaching and runoff losses. We welcome interdisciplinary contributions (e.g., soil science, agronomy, plant physiology, environmental engineering) on novel approaches for P management. Studies on economic and policy dimensions, life-cycle assessments, and reviews are also encouraged. All article types are invited.

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### Guest Editors

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### Deadline for manuscript submissions

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## Agriculture

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### Message from the Editor-in-Chief

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### Editor-in-Chief

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