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Interventions and Management of Rice Cropping Systems

Guest Editors:

Dr. Xiaochuang Cao
State Key Laboratory of Rice Biology, China National Rice Research Institute, Hangzhou 310006, Zhejiang, China

Dr. Lianfeng Zhu
State Key Laboratory of Rice Biology, China National Rice Research Institute, Hangzhou 310006, Zhejiang, China

Dr. Yali Kong
State Key Laboratory of Rice Biology, China National Rice Research Institute, Hangzhou 310006, Zhejiang, China

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Message from the Guest Editors

In recent decades, the rice yield, including the single and double cropping systems, has increased significantly worldwide; this is primarily attributed to genetic gain, the increase in the input of inorganic fertilizers and cultivation technology. However, the unreasonable farming management and long-term excess application of inorganic fertilizers in rice production lead to lower resource use efficiency and adverse environmental consequences, such as water eutrophication, soil erosion, and biodiversity loss. Therefore, it is essential to develop sustainable management practices in order to improve nutrient efficiency and produce more grain with higher soil fertility and lower environmental costs.

This Special Issue focuses on rice cleaner production, nitrogen fate in the rice–soil system, and physical, chemical and biological changes in paddy soil caused by the different fertilization, tillage, irrigation and crop rotation strategies. For this reason, it welcomes highly interdisciplinary quality studies from disparate research fields including agronomy, nutrient management and modeling, soil conservation, environmentalism, and even occupational risk prevention.

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Editor-in-Chief

Prof. Dr. Les Copeland
Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

Message from the Editor-in-Chief

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Agriculture Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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