Special Issue

Simplified and Efficient Cultivation of Rice and Wheat and Their Physiological and Ecological Characteristics

Message from the Guest Editor

Rice-wheat double cropping systems are an important cropping system in China. The level of crop yield and economic benefits affects not only farmers' enthusiasm for growing grain but also national food security. With the development of social economy and the transfer of a large amount of labor, rice-wheat simplified cultivation has become the main mode of production in modern agriculture. In-depth study of the related technologies of light, simple, and efficient cultivation of rice and wheat is conducive to improving the theory and methods of crop cultivation from a new perspective. The mechanism of synergy between crop physiological characteristics and yield formation during simplified cultivation needs to be further clarified. This Special Issue of Plants will highlight the establishment of high-yield and high-efficiency cultivation techniques and their internal physiological and ecological mechanisms, such as full straw returning and efficient tillage, mechanized precision sowing and strong seedling cultivation technology, full mechanization of agricultural machinery selection and matching, and precise and efficient management of fertilizer and water.

Guest Editor

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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