

Special Issue

Agroecosystem Modeling

Message from the Guest Editor

In the past, intensification/overexploitation of agroecosystems with irrigation, agronomic managements, improved crop varieties, agrochemicals and agricultural machinery resulted in enhanced food production. However, due to inaccurate agroecosystem management, problems such as greenhouse gas emissions, erosion, salinization, eutrophication, loss in biodiversity, and insect and pest prevalence are predominantly. Models are a good tool to describe the response of agroecosystems under different sets of biotic and abiotic scenarios. At present, there are different process-based agroecosystem models available that can be used to solve “what if” questions in this era of climate change. These models are helpful in ideotype designing, phenotyping, understanding of Genotype (G) x Environment (E) x Management (M) interactions, crop physiological mechanisms, water and nutrient management, conservation and precision agriculture, insect, pest, and disease forecasting, soil organic carbon dynamics, socioeconomic analysis, and climate impact assessments.

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, and 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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