Special Issue

Climate Adaptation Ways for Smallholder Farmers

Message from the Guest Editors

Agriculture plays a key role in a nation's economy, especially in developing countries. Farming is highly vulnerable to climate change as extreme heat; floods; droughts; hail windstorms; weed species and distribution changes; pest and disease pressures; potentially depleted soils; and water stress have a negative impact on welfare and food security. Farmers, in order to alleviate income losses, need to stand ready to adjust their farming practices to overcome climate change by identifying the changes in climatic variables. The significant parameters affecting adaptation include: the size of the household, income, education, accessibility to climate information, location of the land, crop variety, access to formal loans, and distance to input markets. The practices associated with sustainable agriculture which aim to increase the resilience of the agricultural systems are diversifying crop rotations, mulching, integrating livestock with crop production systems, improving soil quality, minimizing off-farm flows of nutrients and pesticides, and implementing more efficient irrigation practices.

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About the Journal

Message from the Editor-in-Chief

Climate (ISSN 2225-1154) was established in 2013 to provide an open-access outlet for innovative research, review articles, new direction papers, and short communications relevant to all disciplines related to climate at all scales. The journal encourages papers ranging from climate change detection and attribution and Earth system modeling to ecosystem, hydrologic, and socioeconomic impacts and climate mitigation and adaptation measures. The influence of Climate is strong and growing (IF 3.2 in 2024, CiteScore 5.7 in 2024).

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