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Special Issue Reprint

Orchard Management Under Climate Change

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Climate change remains a major challenge for global horticulture, affecting orchard productivity, fruit quality, resource use efficiency, and the sustainability of fruit production systems. Rising temperatures, altered rainfall patterns, droughts, heat waves, frosts, and other extreme weather events influence crop phenology, fruit development, water requirements, and pest and disease dynamics, requiring significant adaptations in orchard management. To enhance resilience under changing environmental conditions, researchers and growers are developing innovative strategies, including improved irrigation management, precision horticulture, optimized canopy architecture, climate-adapted cultivars and rootstocks, and advanced monitoring technologies.

The reprint of the Special Issue Orchard Management Under Climate Change: 2nd Edition presents recent advances in climate adaptation for fruit production systems. The published papers cover topics such as irrigation management, physiological responses to abiotic stress, nutritional diagnosis, crop phenology, rootstock selection, precision horticulture, and the expansion of fruit crops into new production regions. Together, these contributions provide valuable knowledge to support the development of resilient and sustainable orchard systems under future climate scenarios.

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