

# Contents

Climate change and crop water requirements: Case of apple tree in the province of Ifrane (Morocco) <i>Amal Labaioui and Rachid Razouk</i>	1
Water stress effect on stomatal regulation, osmoticum accumulation and seed yield of durum wheat ( <i>Triticum durum</i> Desf.) <i>El Idrissi Imane Saghour, Moha Ferrahi, Rabea Ziri, Najiba Brhadda and Rajae Kettani</i>	7
Unprecedented achievement of severe drought tolerant sesame mutants during germination and early young seedling growth <i>Mohamed Kouighat, Hafida Hanine, Mohamed El Fechtali and Abdelghani Nabloussi</i>	13
Effect of supplemental irrigation on yield components in various varieties of faba bean ( <i>Vicia faba</i> L.) <i>Ghita Ajana, Zain El Abidine Fatemi, Jamila Al Figuigui and Khalid Daoui</i>	21
Olive drought resilience: Investigation of morpho-physiological and biochemical markers involved <i>Rachid Razouk and Lahcen Hssaini</i>	29
Assessing water stress tolerance in eleven apple varieties based on agronomic and physiological traits <i>Anas Hamdani, Lahcen Hssaini, Atman Adiba, Khalfi Chems Doha and Rachid Razouk</i>	41
Pomegranate drought tolerance: Comparative analysis based on yield components and vegetative traits <i>Atman Adiba, Abdelmajid Haddioui, Lahcen Hssaini, Anas Hamdani and Rachid Razouk</i>	49
Plasticity of yield and fruit quality attributes in Japanese plum ( <i>Prunus salicina</i> L.) under water deficit conditions <i>Anas Hamdani, Said Bouda, Lahcen Hssaini, Atman Adiba and Rachid Razouk</i>	55
Pomegranate yield and juice quality as influenced by sustained deficit irrigation <i>Atman Adiba, Lahcen Hssaini, Abdelmajid Haddioui, Anas Hamdani and Rachid Razouk</i>	63
Nano-irrigation: Presentation of the technology, achievements, economic analysis and research perspectives (Case of Moistube) <i>Jamal Hallam, Adnane Labbaci, Youssef Brouziyne, Maryam Lahlali and Fouad Elame</i>	69