

CONTENTS

Special Issue: SAFIR - Safe and high quality food production using low quality waters and improved irrigation systems and management

Guest Editor: Ragab Ragab

Preface	iv
Safe and high quality food production using low quality waters and improved irrigation systems and management: SAFIR	
F. Plauborg, M.N. Andersen, (Tjele, Denmark), F. Liu (Copenhagen, Denmark), J. Ensink (London, UK) and R. Ragab (Wallingford, UK)	377
Decentralised water and wastewater treatment technologies to produce functional water for irrigation	
A. Battilani (Bologna, Italy), M. Steiner (Switzerland), M. Andersen, S.N. Back, J. Lorenzen (Denmark), A. Schweitzer (Israel), A. Dalsgaard, A. Forslund (Denmark), S. Gola (Italy), W. Kloppmann (Orléans, France), F. Plauborg and M.N. Andersen (Denmark)	385
Deficit irrigation based on drought tolerance and root signalling in potatoes and tomatoes	
C.R. Jensen (Taastrup, Denmark), A. Battilani (Italy), F. Plauborg (Tjele, Denmark), G. Psarras, K. Chartzoulakis (Chania, Greece), F. Janowiak (Kraków, Poland), R. Stikic, Z. Jovanovic (Belgrade, Serbia), G. Li (Beijing, China), X. Qi (Xinxiang, China), F. Liu, S.-E. Jacobsen (Taastrup, Denmark) and M.N. Andersen (Tjele, Denmark)	403
Soil microbial response, water and nitrogen use by tomato under different irrigation regimes	
X. Li (Beijing, China), F. Liu (Taastrup, Denmark), G. Li, Q. Lin (Beijing, China) and C.R. Jensen (Taastrup, Denmark)	414
Carbon retention in the soil–plant system under different irrigation regimes	
Y. Wang, F. Liu (Taastrup, Denmark), M.N. Andersen (Tjele, Denmark) and C.R. Jensen (Taastrup, Denmark)	419
Modelling of root ABA synthesis, stomatal conductance, transpiration and potato production under water saving irrigation regimes	
F. Plauborg (Tjele, Denmark), P. Abrahamsen, B. Gjettermann, M. Møllerup (Copenhagen, Denmark), B.V. Iversen (Tjele, Denmark), F. Liu (Copenhagen, Denmark), M.N. Andersen (Tjele, Denmark) and S. Hansen (Copenhagen, Denmark)	425
Faecal contamination and hygiene aspect associated with the use of treated wastewater and canal water for irrigation of potatoes (<i>Solanum tuberosum</i>)	
A. Forslund (Frederiksberg, Denmark), J.H.J. Ensink (London, UK), A. Battilani (Bologna, Italy), I. Kljujev (Belgrade, Serbia), S. Gola (Parma, Italy), V. Raicevic, Z. Jovanovic, R. Stikic (Belgrade, Serbia), L. Sandei (Parma, Italy), T. Fletcher (London, UK) and A. Dalsgaard (Frederiksberg, Denmark)	440
Impact of irrigation with treated low quality water on the heavy metal contents of a soil-crop system in Serbia	
N. Surdyk, L. Cary (Orléans, France), S. Blagojevic, Z. Jovanovic, R. Stikic, B. Vucelic-Radovic, B. Zarkovic (Belgrade, Serbia), L. Sandei (Parma, Italy), M. Pettenati and W. Kloppmann (Orléans, France)	451
Assessing the net benefits of using wastewater treated with a membrane bioreactor for irrigating vegetables in Crete	
L. Maton (Montpellier, France), G. Psarras, G. Kasapakis (Chania, Greece), J. Ravn Lorenzen, M. Andersen (Bjerringbro, Denmark), M. Boesen (Frederiksberg, Denmark), S. Nøhr Bak (Bjerringbro, Denmark), K. Chartzoulakis (Chania, Greece), S. Marcus Pedersen (Frederiksberg, Denmark) and W. Kloppmann (Orléans, France)	458
Farmers' incentives to save water with new irrigation systems and water taxation—A case study of Serbian potato production	
J.E. Ørum, M.V. Boesen (Frederiksberg, Denmark), Z. Jovanovic (Belgrade, Serbia) and S.M. Pedersen (Frederiksberg, Denmark)	465
Management model for decision support when applying low quality water in irrigation	
M. Styczen (Frederiksberg, Denmark), R.N. Poulsen, A.K. Falk and G.H. Jørgensen (Hørsholm, Denmark)	472