

CONTENTS

ORIGINAL ARTICLES

- 1 Nematode resistance in bitter melon to *Meloidogyne incognita*
K.M. Pofu, P.W. Mashela and D. Oelofse
- 6 Development, growth, and nitrogen use of autumn- and spring-sown facultative wheat
R.W. Neugschwandtner, K. Böhm, R.M. Hall and H.-P. Kaul
- 14 Transmission and storage properties of a tropical loamy sand soil as influenced by organic-based and inorganic fertilizers
J.K. Adesodun, F.A. Olowokere, A.O. Ismail, A.O. Adekunle and J.A. Osore
- 23 Effect of arbuscular mycorrhizal fungi on aggregate stability of a clay soil inoculating with two different host plants
P. Xu, L.Z. Liang, X.Y. Dong and R. Fang Shen
- 30 Cultivation of potato – use of plastic mulch and row covers on soil temperature, growth, nutrient status, and yield
L.M. Ruiz-Machuca, L. Ibarra-Jiménez, L.A. Valdez-Aguilar, V. Robledo-Torres, A. Benavides-Mendoza and M. Cabrera-de la Fuente
- 36 Cucumber performance is improved by inoculation with plant growth-promoting microorganisms
S.-M. Kang, R. Radhakrishnan, Y.-H. You, A.L. Khan, J.-M. Park, S.-M. Lee and I.-J. Lee
- 45 Two typical K-efficiency cotton genotypes differ in potassium absorption kinetic parameters and patterns
Y. Hao, J. Lei, Q. Wang, L. Wu and C. Jiang
- 54 Soil boron status: impact of lime and fertilizers in an Indian long-term field experiment on a Typic Paleustalf
A. Dey, B.S. Dwivedi, S.P. Datta, M.C. Meena and B.K. Agarwal
- 63 Use of sensor data for turbidity, pH and conductivity as an alternative to conventional water quality monitoring in four Norwegian case studies
E. Skarbøvik and R. Roseth
- 74 Hoagland nutrient solution promotes the growth of cucumber seedlings under light-emitting diode light
H. Li and Z. Cheng
- 83 Conversion of forest to agricultural land affects the relative contribution of bacteria and fungi to nitrification in humid subtropical soils
J. Wang, Q. Liu, J. Zhang and Z. Cai

SHORT COMMUNICATION

- 89 Botanical pesticides and their human health safety on the example of *Citrus sinensis* essential oil and *Oulema melanopus* under laboratory conditions
L. Zarubova, L. Kourimska, M. Zouhar, P. Novy, O. Douda and J. Skuhrovec