

## INDEX OF PAPERS

Afzal I., Rauf S., Basra S.M.A., Murtaza G.: Halopriming improves vigor, metabolism of reserves and ionic contents in wheat seedlings under salt stress .....	382
Al-Hakimi A.M.A.: Effect of salicylic acid on biochemical changes in wheat plants under khat leaves residues .....	288
Atanasova E.: Effect of nitrogen sources on the nitrogenous forms and accumulation of amino acid in head cabbage .....	66
Babulicová M.: Influence of the fertilization on the winter wheat in the crop rotations and in the long-term monoculture .....	190
Çavuşoğlu K., Kılıç S., Kabar K.: Effects of some plant growth regulators on stem anatomy of radish seedlings grown under saline (NaCl) conditions .....	428
Černohlávková J., Hofman J., Bartoš T., Sáňka M., Anděl P.: Effects of road deicing salts on soil microorganisms .....	479
Černý J., Balík J., Kulhánek M., Nedvěd V.: The changes in microbial biomass C and N in long-term field experiments .....	212
Das D.K., Sur P., Das K.: Mobilisation of arsenic in soils and in rice ( <i>Oryza sativa</i> L.) plants affected by organic matter and zinc application in irrigation water contaminated with arsenic .....	30
Esmaili E., Kapourchal S.A., Malakouti M.J., Homaei M.: Interactive effect of salinity and two nitrogen fertilizers on growth and composition of sorghum .....	537
Fišerová H., Mikušová Z., Klemš M.: Estimation of ethylene production and 1-aminocyclopropane-1-carboxylic acid in plants by means of gas chromatography .....	55
Gao S., Ouyang C., Wang S., Xu Y., Tang L., Chen F.: Effects of salt stress on growth, antioxidant enzyme and phenylalanine ammonia-lyase activities in <i>Jatropha curcas</i> L. seedlings .....	374
Gao S., Yan R., Cao M., Yang W., Wang S., Chen F.: Effects of copper on growth, antioxidant enzymes and phenylalanine ammonia-lyase activities in <i>Jatropha curcas</i> L. seedling .....	117
Grejtovský A., Markušová K., Nováková L.: Lead uptake by <i>Matricaria chamomilla</i> L. ....	47
Gryndler M., Krofta K., Gryndlerová H., Soukupová L., Hršelová H., Gabriel J.: Potentially dangerous fusarioid microorganisms associated with rot of hops ( <i>Humulus lupulus</i> L.) plants in field culture .....	149

Haberle J., Svoboda P., Raimanová I.: The effect of post-anthesis water supply on grain nitrogen concentration and grain nitrogen yield of winter wheat .....	304
Han H., Li Z., Ning T., Zhang X., Shan Y., Bai M.: Radiation use efficiency and yield of winter wheat under deficit irrigation in North China .....	313
Hanč A., Tlustoš P., Száková J., Balík J.: The influence of organic fertilizers application on phosphorus and potassium bioavailability .....	247
Hanč A., Tlustoš P., Száková J., Habart J., Gondek K.: Direct and subsequent effect of compost and poultry manure on the bioavailability of cadmium and copper and their uptake by oat biomass .....	271
Hasaneen M.N.A., Younis M.E., El-Bialy D.M.A.: Plant growth, metabolism and adaptation in relation to stress conditions: Further studies supporting nullification of harmful effects of salinity in lettuce plants by urea treatment .....	123
John R., Ahmad P., Gadgil K., Sharma S.: Effect of cadmium and lead on growth, biochemical parameters and uptake in <i>Lemna polyrrhiza</i> L. ..	262
Jursík M., Holec J., Soukup J., Venclová V.: Competitive relationships between sugar beet and weeds in dependence on time of weed control .....	108
Khajeddin S.J., Yeganeh H.: Plant communities of the Karkas Hunting-Prohibited Region, Isfahan-Iran .....	347
Kolář L., Kužel S., Peterka J., Štindl P., Plát V.: Agrochemical value of organic matter of fermenter wastes in biogas production .....	321
Konôpka B., Pagès L., Doussan C.: Impact of soil compaction heterogeneity and moisture on maize ( <i>Zea mays</i> L.) root and shoot development .....	509
Kotková B., Balík J., Černý J., Kulhánek M., Bazalová M.: Crop influence on mobile sulphur content and arylsulphatase activity in the plant rhizosphere .....	100
Krček M., Slamka P., Olšovská K., Brestič M., Benčíková M.: Reduction of drought stress effect in spring barley ( <i>Hordeum vulgare</i> L.) by nitrogen fertilization .....	7
Křivánek J., Pulkrábek J., Chaloupský R., Kudrna T., Pokorný J.: Response of the Czech hybrid hop cultivar Agnus to the term of pruning, depth of pruning and number of trained bines .....	471
Kulhánek M., Balík J., Černý J., Schweitzer K., Vaněk V., Prášilová M.: Evaluating of phosphorus quantity/intensity parameters in soil with different systems of organic fertilizing .....	389
Kumari A., Kapoor K.K., Kundu B.S., Kumari Mehta R.: Identification of organic acids produced during rice straw decomposition and their role in rock phosphate solubilization .....	72
Kumhálová J., Matějková Š., Fiferňová M., Lipavský J., Kumhála F.: Topography impact on nutrition content in soil and yield .....	255

Lachman J., Hamouz K., Šulc M., Orsák M., Dvořák P.: Differences in phenolic content and antioxidant activity in yellow and purple-fleshed potatoes grown in the Czech Republic .....	1
Lapinski S., Rosciszewska M.: The impact of cadmium and mercury contamination on reproduction and body mass of earthworms .....	61
Li Q., Cao J., Yu L.: Biogeochemical effect of karst soil on the element contents in the leaves of two species of <i>Flos Lonicerae</i> .....	486
Li Y.: Kinetics of the antioxidant response to salinity in the halophyte <i>Limonium bicolor</i> .....	493
Luan Z.Q., Cao H.C., Yan B.X.: Individual and combined phytotoxic effects of cadmium, lead and arsenic on soybean in Phaeozem ..	403
Mahdy A.M., Elkhatib E.A., Fathi N.O.: Drinking water treatment residuals as an amendment to alkaline soils: Effects on bioaccumulation of heavy metals and aluminum in corn plants .....	234
Mostafazadeh-Fard B., Heidarpour M., Aghakhani A., Feizi M.: Effects of leaching on soil desalinization for wheat crop in an arid region .....	20
Nedvěd V., Balík J., Černý J., Kulhánek M., Balíková M.: The changes of soil nitrogen and carbon contents in a long-term field experiment under different systems of nitrogen fertilization .....	463
Ondrášek L., Čunderlík J.: Effects of organic and mineral fertilisers on biological properties of soil under seminatural grassland	329
Öztürk Çalı İ.: The effects of fosetyl-Al application on morphology and viability of <i>Lycopersicon esculentum</i> Mill. pollen .....	336
Öztürk E., Özer H., Polat T.: Growth and yield of safflower genotypes grown under irrigated and non-irrigated conditions in a highland environment .....	453
Pagano M.C.: Rhizobia associated with neotropical tree <i>Centrolobium tomentosum</i> used in riparian restoration .....	498
Parvaiz A., Satyawati S.: Salt stress and phyto-biochemical responses of plants – a review .....	89
Patel A.D., Pandey A.N.: Growth, water status and nutrient accumulation of seedlings of <i>Holoptelea integrifolia</i> (Roxb.) Planch in response to soil salinity .....	367
Piotrowska-Seget Z., Kozdrój J.: Changes in culturable bacterial community of soil treated with high dosages of Cu or Cd .....	520
Popelářová E., Voříšek K., Strnadová S.: Relations between activities and counts of soil microorganisms .....	163

Quanqi L., Yuhai C., Mengyu L., Xunbo Z., Baodi D., Songlie Y.: Water potential characteristics and yield of summer maize in different planting patterns .....	14
Růžková M., Růžek L., Voříšek K.: Soil biological activity of mulching and cut/harvested land set aside .....	204
Sądej W., Przekwas K.: Fluctuations of nitrogen levels in soil profile under conditions of a long-term fertilization experiment .....	197
Safari Sinegani A.A., Khalilikhah F.: Phytoextraction of lead by <i>Helianthus annuus</i> : effect of mobilising agent application time .....	434
Shi Z.J., Lu Y., Xu Z.G., Fu S.L.: Enzyme activities of urban soils under different land use in the Shenzhen city, China .....	341
Simova-Stoilova L., Demirevska K., Petrova T., Tsenov N., Feller U.: Antioxidative protection in wheat varieties under severe recoverable drought at seedling stage .....	529
Skwierawska M., Zawartka L., Zawadzki B.: The effect of different rates and forms of sulphur applied on changes of soil agrochemical properties ..	171
Skwierawska M., Zawartka L., Zawadzki B.: The effect of different rates and forms of applied sulphur on nutrient composition of planted crops ...	179
Sujatha K.B., Uprety D.C., Nageswara Rao D., Raghuvеer Rao P., Dwivedi N.: Up-regulation of sucrose-P synthase in rice under elevated carbon dioxide and temperature conditions .....	155
Talebi R., Naji A.M., Fayaz F.: Geographical patterns of genetic diversity in cultivated chickpea ( <i>Cicer arietinum</i> L.) characterized by amplified fragment length polymorphism .....	447
Tang H., Luo Y., Liu C.: Plant regeneration from <i>in vitro</i> leaves of four commercial <i>Pyrus</i> species .....	140
Trnka M., Trnka M., Fialová J., Koutecký V., Fajman M., Žalud Z., Hejduk S.: Biomass production and survival rates of selected poplar clones grown under a short-rotation on arable land .....	78
Vácha R., Macurová H., Skála J., Havelková M., Čechmánková J., Horváthová V.: Possibilities of some methods for risk assessment of arsenic load in soils .....	279
Vanaja M., Jyothi M., Ratnakumar P., Vagheera P., Raghuram Reddy P., Jyothi Lakshmi N., Yadav S.K., Maheshwari M., Venkateswarlu B.: Growth and yield responses of castor bean ( <i>Ricinus communis</i> L.) to two enhanced CO <sub>2</sub> levels .....	38
Vaněk V., Balík J., Šilha J., Černý J.: Spatial variability of total soil nitrogen and sulphur content at two conventionally managed fields .....	413
Váňová M., Klem K., Míša P., Matušinsky P., Hajšlová J., Lancová K.: The content of <i>Fusarium</i> mycotoxins, grain yield and quality of winter wheat cultivars under organic and conventional cropping systems .....	395

Vrchotová N., Šerá B.:	
Allelopathic properties of knotweed rhizome extracts .....	301
Wang Z.M., Zhang B., Song K.S., Liu D.W., Li F., Guo Z.X., Zhang S.M.:	
Soil organic carbon under different landscape attributes in croplands of Northeast China .....	420
Wu H.Y., Li X.X., Shi L.B., Wang Z.H., Ma F.Y.:	
Distribution of nematodes in wetland soils with difference distance from the Bohai sea .....	359
Yan R., Gao S., Yang W., Cao M., Wang S., Chen F.:	
Nickel toxicity induced antioxidant enzyme and phenylalanine ammonia-lyase activities in <i>Jatropha curcas</i> L. cotyledons .....	294
Yang S.X., Deng H., Li M.S.:	
Manganese uptake and accumulation in a woody hyperaccumulator, <i>Schima superba</i> .....	441
Yıldız M., Terzi H.:	
Effects of NaCl on protein profiles of tetraploid and hexaploid wheat species and their diploid wild progenitors .....	227
Živčák M., Brestič M., Olšovská K., Slamka P.:	
Performance index as a sensitive indicator of water stress in <i>Triticum aestivum</i> L. ....	133
INFORMATION	
Merbach W., Deubel A.:	
Long-term field experiments – museum relics or scientific challenge? .....	219
Šimek P., Vaněk J., Jarolímek J.:	
Information and communication technologies and multifunctional agri-food systems in the Czech Republic .....	547