

CONTENTS

Volume 39 Number 12 2016

ARTICLES

- Responses of *Castanopsis hystrix* seedlings to macronutrient imbalances: Growth, photosynthetic pigments and foliar nutrient interactions
Lin Chen, Hong-Yan Jia, Bernard Dell, Wen-Fu Guo, Dao-Xiong Cai, and Jie Zeng 1663
- Effect of phosphorus supply on plant productivity, photosynthetic efficiency and bioactive-component production in *Prunella vulgaris* L. under hydroponic condition
ManMan Yu, YuHang Chen, ZaiBiao Zhu, Li Liu, LiXia Zhang, and QiaoSheng Guo 1672
- Boron fertilization improves seed yield and harvest index of *Camelina sativa* L. by affecting source-sink
Shahbaz Khan, Hafeez ur Rehman, Muhammad Ashfaq Wahid, Muhammad Farrukh Saleem, Mumtaz Akhtar Cheema, Shahzad Maqsood Ahmed Basra, and Muhammad Nadeem 1681
- Seed vigor and boron and calcium nutrition influence oilseed rape germinability and seedling growth under salt stress
Ahmad Javadi, Saeid Khomari, and Omid Sofalian 1688
- Nutrient concentration and yield of maize (*Zea mays* L.) after vetch (*Vicia sativa* L.) in conventional and reduced tillage systems
Sakine Ozpinar 1697
- Water-soluble cations in shoot dry weight of common bean and balance of ions in the soil in response to the magnesium application
B. T. Canizella, A. Moreira, L. A. C. Moraes, and N. K. Fageria 1713
- Nitrogen uptake efficiency of finger millet grown in hydroponic culture
Siddhartha Swarup Jena, Pushpa Lohani, and Anil Kumar 1724
- Response of sunflower to potassium and magnesium fertilizers in calcareous soils in central Anatolia of Turkey
Hakan Ertiftik and Mehmet Zengin 1734
- Effects of nitrogen form of nutrient solution on uptake and concentration macro element and morphological trait in hydroponic tulip
Hojat Abasi, Mesbah Babalar, Hossain Lessani, and Roohangiz Naderi 1745
- Effects of NaCl salinity on some leaf nutrient concentrations, non-photochemical quenching and the efficiency of the PSII photochemistry of two Iranian pomegranate varieties under greenhouse and field conditions: Preliminary results
Mehdi Khayyat, Ali Tehranifar, Gholam Hossien Davarynejad, and Mohammad Hassan Sayyari-Zahan 1752
- Lettuce (*Lactuca sativa* L.) growth, yield and quality response to nitrogen fertilization in a non-circulating hydroponic system
R. I. S. Mahlangu, M. M. Maboko, D. Sivakumar, P. Soundy, and J. Jifon 1766
- Effects of enclosure on soil nutrients, vegetation diversity and biomass production in hilly rangelands
Davoud Akhzari and Mohammad Pessarakli 1776

Application of GA ₃ , AVG and choline chloride to peach trees: Effects on nutritional status of fruit <i>Melike Çetinbaş, Fatma Koyuncu, and Sinan Butar</i>	1783
Assessment of mineral nutrient concentrations of lettuce in response to cultivar selection and fertilization in greenhouse production <i>M. J. Meagy, Touria E. Eaton, and Allen V. Barker</i>	1796
Correlation of petiole sap nitrate-nitrogen concentration measured by ion selective electrode, leaf tissue nitrogen concentration, and tomato yield in Florida <i>Luther Carson, Monica Ozores-Hampton, and Kelly Morgan</i>	1809

Volume 39 Number 13 2016

ARTICLES

Influence of humic acid and salicylic acid on yield, fruit quality, and leaf mineral elements of strawberry (<i>Fragaria</i> × <i>Ananassa</i> duch.) cv. Camarosa <i>Fatemeh Aghaeifard, Mesbah Babalar, Esmaeil Fallahi, and Ahmad Ahmadi</i>	1821
Effects of nitrogen application frequency via subsurface drip irrigation on corn development and grain yield <i>Simon J. van Donk and Tim M. Shaver</i>	1830
Comparison of the distribution of mineral nutrients and active substances in dehydration- and salinity-stressed <i>Aloe vera</i> L. <i>Xiao Ming Yin, Ling Tong Quan, Na Yang, Chun Fang Zheng, Feng Shi, Chang Hai Wang, and Qing Song Zheng</i>	1840
AMF association and their effect on metabolite mobilization, mineral nutrition and nitrogen assimilating enzymes in saffron (<i>Crocus sativus</i>) plant <i>Rafiq Lone, Razia Shuab, and K. K. Koul</i>	1852
Saline water and MSW compost: Effects on yield of maize crop and soil responses <i>Rita Leogrande, Carolina Vitti, Ornella Lopedota, Domenico Ventrella, and Francesco Montemurro</i>	1863
Irrigated and rain-fed maize response to different nitrogen fertilizer application methods <i>Jacob T. Bushong, Eric C. Miller, Jeremiah L. Mullock, D. Brian Arnall, and William R. Raun</i>	1874
Effect of different nitrogen-potassium concentrations on growth and flowering of chrysanthemum in a drip hydroponic system <i>S. K. Azeezahmed, R. K. Dubey, S. S. Kukal, and V. P. Sethi</i>	1891
Effect of nitrogen application on seed yield, pod and seed characteristics of okra <i>Ghadir Mohammadi, Ebrahim M. Khah, Spyridon A. Petropoulos, and Demosthenis Chachalis</i>	1899
Nitrogen fertilization, irrigation, and harvest times affect biomass and energy value of <i>Helianthus tuberosus</i> L. <i>Gao Kai, Zhu Tie-Xia, and Wang Qi-Bing</i>	1906
AM fungi and rhizobium regulate nodule growth, phosphorous (P) uptake, and soluble sugar concentration of soybeans experiencing P deficiency <i>Xiaodong Ding, Shirong Zhang, Rongping Wang, Shuyi Li, and Xinrong Liao</i>	1915

- Effectiveness of potassium in mitigating the salt-induced oxidative stress in contrasting tomato genotypes
Muhammad Amjad, Javaid Akhtar, Muhammad Anwar-ul-Haq, Muhammad Atif Riaz, Zulfiqar Ahmad Saqib, Behzad Murtaza, and Muhammad Asif Naem 1926
- Assessment of organic and conventional soil fertility practices and cultivar selection on mineral nutrient accumulation in field-grown lettuce
M. J. Meagy, Touria E. Eaton, Allen V. Barker, and Gretchen M. Bryson 1936
- Nutrient disorders of *Dianthus* 'Bouquet Purple'
Jared Barnes, Brian Whipker, Ingram McCall, and Jonathan Frantz 1950
- Characteristics of P accumulation and distribution at the maturity stage of *Brassica Napus* varieties with different phosphorus use efficiency for grain production
Guang Yang, Qingsong Zuo, Rong Liu, Cuiyan Yin, Jianfei Shi, Feihu Hui, and Suohu Leng 1958
- A novel urea coated with pine oleoresin for enhancing yield and nitrogen uptake by maize crop
S. Kundu, Tapan Adhikari, M. Vassanda Coumar, S. Rajendiran, J. K. Saha, A. Subba Rao, and Gopal Rathore 1971
- Is air-drying of soil samples an appropriate step in determining plant available potassium for corn?
Manbir Kaur Rakkar, David Franzen, and Amitava Chatterjee 1979

Volume 39 Number 14 2016

ARTICLES

- Activated antioxidant enzymes-reduced malondialdehyde concentration, and improved mineral uptake-promoted watermelon seedlings growth under boron deficiency
Mohamed Moustafa-Farag, Fang Bingsheng, Kateta Malangisha Guy, Zhongyuan Hu, Jinghua Yang, and Mingfang Zhang 1989
- Grazing intensity and environmental factors effects on species composition and diversity in rangelands of Iran
Ezatollah Moradi, Gholam Ali Heshmati, Fatemeh Ghilishli, Seyyedeh Zohreh Mirdeilami, and Mohammad Pessarakli 2002
- Evaluation of inoculation with nitrogen and phosphorus biofertilizers on yield and radiation use efficiency of black cumin (*Nigella sativa* L.) under Mashhad climatic conditions
Surur Khorramdel, Alireza Koocheki, Mahdi Nassiri Mahallati, and Reza Ghorbani 2015
- Differential cadmium stress tolerance in wheat genotypes under mycorrhizal association
Vinay Sharma, Pooja Parmar, and Nilima Kumari 2025
- Influence of intercropping systems on soil health, productivity and quality of guava (*Psidium guajava* L.) in Eastern India
S. C. Swain 2037
- Grain and biomass nutrient uptake of conventional corn and their genetically modified isolines
Shannon L. Osborne, R. Michael Lehman, and Kurt A. Rosentrater 2047

Residue, tillage and N-fertilizer rate affected yield and N efficiency in irrigated spring wheat <i>Asad Shah, Mohammad Akmal, M. Jamal Khan, and Muhammad Asim</i>	2056
Nitric oxide improves high zinc tolerance in maize plants <i>Cengiz Kaya</i>	2072
Effects of mycorrhiza colonization on growth, root exudates, antioxidant activity and photosynthesis trait of cucumber grown in Johnson modified nutrient solution <i>Maryam Haghighi, Saber Mohmmadnia, and Mohammad Pessarakli</i>	2079
Assessment of urea coated with pomegranate fruit powder as N slow-release fertilizer in maize <i>Hossein Sabahi, Saba Siadat Jamian, and Fahimeh Ghashghaee</i>	2092
Subcellular compartmentation of sugars in wheat leaves under the influence of salinity and boron toxicity <i>Sajid Masood, Muhammad Iqbal, Hassan Javed Chaudhary, and M. Farooq Hussain Munis</i>	2100
Effects of vermicompost and salinity stress on growth and physiological traits of <i>Medicago rigidula</i> L. <i>Davoud Akhzari, Mohammad Pessarakli, and Majid Khedmati</i>	2106
Growth and ion accumulation responses of four grass species to salinity <i>Walter E. Riedell</i>	2115
Effects of nitrogen fertigation frequency on yield and nitrogen retention in drip-irrigated cotton <i>Nese Uzen and Oner Cetin</i>	2126
Extractants for available boron in limed acid soils and its correlation in crops with high carbon storage capacity (<i>Tectona grandis</i>) <i>Jaime L. Mercado, Enrique M. Combatt, and Manuel Palencia</i>	2136
Effect of colored plastic mulch on growth, yield and nutrient status in cucumber under shade house and open field conditions <i>Vicente Torres-Olivar, Luis Alonso Valdez-Aguilar, Antonio Cárdenas-Flores, Hugo Lira-Saldivar, Marcela Hernández-Suárez, and Luis Ibarra-Jiménez</i>	2144