

CONTENTS

Volume 28 Number 1 January–February 2022

Editorial

- 1 The editor's field – use of abbreviations...
Vincent M. Russo

Articles

- 3 Plant spatial arrangement on growth, weed control, and yield of okra
E. A. Makinde, O. M. Odeyemi, O. L. Abiodun, and O. S. Ayeni
- 15 Double hurdle approach to consumer awareness, perception of, and willingness to pay for greenhouse vegetables
K. O. Aboaba, R. A. Sanusi, A. A. Akamo, and B. Bello
- 25 Critical nitrogen ranges for growth stages of tomato in soilless culture under greenhouse conditions in the tropics
H.R.U.T. Erabadupitiya, W.A.P. Weerakkody, and K.A. Nandasena
- 40 Growth, development, and flowering responses of *Salicornia* genotypes to photoperiod
Yazdan Izadi, Majid Nabipour, and Gholam Hassan Ranjbar
- 59 Influence of plant growth regulators on growth, yield, and quality of tomato grown under high temperature in the tropics in the summer
Md. Razzab Ali, Md. Abdul Quddus, Tanjila Nasreen Trina, Md. Mahabubur Rahman Salim, and Md. Asaduzzaman

Review

- 76 Genetic diversity and use of African indigenous vegetables especially slender leaf
Joshua Kiilu Muli, Johnstone O. Neondo, Peter K. Kamau, and Nancy L.M. Budambula

Volume 28 Number 2 March–April 2022

Editorial

- 95 The editor's field – various algorithms have been developed ...
Vincent M. Russo

Articles

- 97 Mineral, organic, and organomineral fertilization associated with base saturation in *Vigna unguiculata* cultivation
Edna Maria Bonfim-Silva, Paula Caroline da Silva Lima, Denise César Soares, Juan Vicente Liendo, Tonny José da Silva Araújo, and Ana Paula Alves Barreto Damasceno
- 111 Factors influencing the choice of climate change adaptation methods among underutilized indigenous vegetable farmers
Mbossh Ekemini-Richard, Adeolu Babatunde Ayanwale, and Olatundun Janet Adelegan

- 121 Design and development of an automatic vegetable transplanter using a novel rotating finger device with push-type mechanism for plug seedlings
Abhijit Khadatkar and S.M. Mathur
- 132 Optimizing sowing date for short- and long-day onion
Kambiz Mashayekhi, Zahra Kiani, Seyyed Javad Mousavizadeh, and Khalil Zeinalinezhad
- 144 Suppression of Fusarium wilt of eggplant using *Trichoderma harzianum* and Carbendazim
Arshi Jamil and Manish Kumar
- 156 Screening snake melon inbred lines under simulated drought
Saeed Hamed, Forouzandeh Soltani, and Michael Alabboud
- 170 Potential of spineless *Lasia spinosa* as a neglected indigenous vegetable
R. H. G. Ranil, R. M. S. R. Chamara, D. M. S. B. Dissanayaka, J. P. Eeswara, D. K. N. G. Pushpakumara, G. Wijesuriya, and I. G. R. I. Jayasekara
- 180 Jute leaves: A potential sources of lycopene
Aleya Nasreen, Zakaria Ahmed, Mahub Ali, and Tahmina Shimu

Volume 28 Number 3 May–June 2022

Editorial

- 189 The editor's field – you are not going to like it but review articles...
Vincent M. Russo

Review

- 191 Cruciferous vegetables as functional foods: effects of selenium biofortification
Panagiota-Kyriaki Revelou, Marinos Xagoraris, Maroula G. Kokotou, and Violetta Constantinou-Kokotou

Articles

- 211 Attenuation of vanillic acid toxicity by foliar application with indole-3-acetic acid in tomato seedlings
Niharika, N. B. Singh, Shubhra Khare, Ajey Singh, Vijaya Yadav, and Ravi Kumar Yadav
- 233 Chemical and biological products for control of powdery mildew on cucumber
Meysam Safaei, Abbas Jorkesh, and Jamalali Olfati
- 239 Production of cassava seedlings on substrates based on decomposed buriti stem
Paula Sara Teixeira de Oliveira, Gênesis Alves de Azevedo, Ramón Yuri Ferreira Pereira, Alineaurea Florentino Silva, Hosana Aguiar Freitas de Andrade, Kleber Veras Cordeiro, Vanessa Brito Barroso, Nítalo André Farias Machado, and Raissa Rachel Salustriano da Silva-Matos
- 247 Land tenure status based pesticide use knowledge of vegetable farmers
Pomi Shahbaz, Shamsheer Ul Haq, Ismet Boz, and Babar Aziz
- 259 Breeding potential of cultivated eggplant genotypes for bacterial wilt disease tolerance using multivariate analysis
Tridip Bhattacharjee, Praveen Kumar Maurya, Swadesh Banerjee, Asit Kumar Mandal, Imtinungsang Jamir, Soumitra Chatterjee, and Arup Chattopadhyay

- 280 Antioxidant activity of tuber apical and basal ends of potato during cold storage
Prabhsangam Kaur Dhillon, Nidhi Aggarwal, and Vikramjit Kaur Zhawar

Volume 28 Number 4 July–August 2022

Articles

- 297 The editor's field – The section that takes a good deal of time to correct, and normally
Vincent M. Russo
- 299 Genotoxic effect of fruit extract of wild and cultivated cucurbits using *Allium cepa* assay
Rupinderpal Kaur, Yumnam Devashree, Ravindra Kumar, Saurabh Gupta, Mohd. Saleem Wani, and Vijay Singh
- 312 Microwave- and ultrasound-assisted extraction of capsaicin from *Capsicum annuum* using deep eutectic solvents
Misbah Hussain, Muhammad Tariq Qamar, and Dildar Ahmed
- 320 Fertilization integrated with microbial inoculants improves bell pepper production
Anju Tanwar, Ajay Singh, Ashok Aggarwal, Neetu Badda, Rubdeep Kaur, and Ravindra Kumar
- 342 The effect of water quality, cultivar, and organic fertilizer on growth and yield of volatile oil carvone and limonene in Dill
Duraid K.A. Al-Taey and Aseel K. Burhan
- 349 Pre-transplant silicon priming improved drought tolerance and biomass partitioning in young tomato plants
Soheil Karimi, Zeynab Torki, Mobina Nazok-kar Maher, and Negin Yegane
- 366 Influence of fertilization on growth and yield of onion under semi-arid conditions
Emmanuel Mrema, Kiddo Mtunda, and Victor Mbise
- 374 Assessing consumer awareness, perception, and willingness to pay a premium for certified organic vegetables
Seth Etuah, Faizal Adams, James Osei Mensah, Awura-Abena Amoah Osei, Kwadwo Atta Danso, and Raphael Kwame Frimpong
- 384 Economics of Dual Purpose Okra as Influenced by Harvesting Strategies
Seyed Amir Moosavi, Seyed Ataollah Siadat, Masoud Hashemi, Ghasem Parmoon, and Adel Poshtdar
- 395 Lettuce production with rates of biochar from babassu palm rachis
Sâmia dos Santos Matos, Luisa Julieth Parra-Serrano, Romário Martins Costa, Maryzélia Furtado de Farias, and Alfredo Napoli

Volume 28 Number 5 September–October 2022

Editorial

- 407 The Editor's Field – Size in agricultural science has several factors associated that need to
Vincent M. Russo

Reviews

- 409 Soil microbial inoculant has no effect on plant growth, fruit yield, fruit disorders, and soilborne diseases in bell pepper
Juan Carlos Díaz-Pérez

- 417 Current developments in vegetable transplanter in developing countries: a comprehensive review

Ankit Sharma and Sanjay Khar

Articles

- 441 Magnesium influences growth, yield, nutrient uptake, and fruit quality of tomato
Md Abdul Quddus, Md Alamgir Siddiky, Md Jamal Hussain, Md Ataur Rahman, Md Razzab Ali, and Mohammed Abu Taher Masud
- 465 Potato yield modeling based on meteorological factors using discriminant analysis and artificial neural networks
Akhilesh Kumar Gupta, Kader Ali Sarkar, Debasis Bhattacharya, and Digvijay Singh Dhakre
- 477 Genetic control of qualitative and quantitative traits in bell pepper crosses involving varied fruit colors and shapes
Swadesh Banerjee, Tridip Bhattacharjee, Praveen Kumar Maurya, Debmala Mukherjee, Sk Masudul Islam, Arup Chattopadhyay, Dipak Kumar Ghosh, and Pranab Hazra
- 493 Quantitative analysis of vitamins B2, B3, B5 and B6 by HPLC-UV in selected non-leafy vegetables
Md. Abdul Wazed, Mahabubul Hasan, Md. Abdul Halim, Md. Akhtaruzzaman, Maruf Ahmed, and N. H. M. Rubel Mozumder
- 500 Assessment of mineral and sugar contents of *Plectranthus edulis* landraces
Esayas Ajire Alfa, Minaleshewa Atlabachew, Amare Aregahegn Dubale, Alemayehu Mekonnen, and Hailu Sheferaw Ayele

Volume 28 Number 6 November–December 2022

Editorial

- 509 The Editor's Field – Abbreviation, abbrev., abbr. are all way of shortening a statement or
Vincent M. Russo

Articles

- 511 Foliar application of iron glutamate improves yield and growth of tomatoes compared to iron sulphate and L-glutamate
Muhammad Waqas Mazhar, Raheel Akram, and Adnan Shahid
- 521 Assessment of seed chilling, GA₃ foliar application, girdling, and grafting as affecting transition to functional flowering in pumpkin
Mohamed Fouad Mohamed and Bahaa El-Deen El-Sayed Abd El-Fatah
- 541 Evaluation of genetic diversity of Cantaloupe landraces based on the internal transcriptional spacer regions (ITS1, 4)
Hossein Vaez-Sarvari, Abbasali Emamjomeh, and Bahman Fazeli-Nasab
- 553 Description of high-yield asparagus cultivars using 1-year-old plants
Takumi Taguchi and Satoru Motoki
- 570 Nitrate accumulation and physicochemical characteristics of lettuce as affected by sodium selenite and synthesized selenium nanoparticles
Mahsa Mohammadi, Ahmadreza Abbasifar, and Babak ValizadehKaji

- 583 Impact of Zytonic-M and organic fertilizer on growth and yield of hybrid tomato Awahr (F1) under saline conditions
Duraïd K. A. Al-Taey, Zahid N. A. Kamaluddin, and Humam H. S. Al-Kazemy
- 589 Consumer preference for selected roots and tubers among urban households
Fredrick Ouma Nuani, Eric Obedy Gido, and Oscar Ingasia Ayuya
- 603 Genetics of tolerance to bacterial wilt disease in eggplant
Tridip Bhattacharjee, Praveen Kumar Maurya, Swadesh Banerjee, Debmala Mukherjee, Subhashis Kundu, Sk. Masudul Islam, Tanmoy Ghosh, Subhradeep Pramanik, Asit Kumar Mandal, and Arup Chattopadhyay