

CONTENTS

Number 5

Articles

- Effects of *Bacillus thuringiensis* var. *kurstaki* and Spinosad on three larval stages 1st, 2nd and 3rd of tomato borer, *Tuta absoluta* (Meyrick) (Lepidoptera: Gelechiidae) in laboratory conditions
Azra Hashemitassuji, Mohammad Hassan Safaralizadeh, Shahram Aramideh and Zahra Hashemitassuji 377
- Role of Challenger pesticide and plant extracts on some physiological parameters of the cotton leafworm, *Spodoptera littoralis* (Boisd.)
A.R. Ebeid, E.A. Sammour and Nawal Zohdy M. Zohdy 385
- Efficacy of entomopathogenic nematode, *Steinernema carpocapsae* against the diamondback moth, *Plutella xylostella* (L.) in laboratory condition
Masaaod Zolfagharian, Ayatallah Saeedizadeh, Habib Abbasipour, Ali Joyandeh and Ali Ahmadian Yazdi 393
- Bioefficacy of *Blumea mollis* (D. Don) Merr. and *Hygrophila schulii* (Buch.-Ham.) (Syn. *H. auriculata*) against *Helicoverpa armigera* (Hübner)
Kathirvelu Baskar, Anbalagan Santhosh Kumar, Gnanaprakasam Antony Raj, Soosaimanickam Maria Packiam and Savarimuthu Ignacimuthu 400
- Toxicity of spinosad on common green lacewing *Chrysoperla carnea* (Stephens) (Neuroptera: Chrysopidae) larvae via ingestion technique under laboratory conditions
Mostafa Maroufpoor, Shahram Aramideh, Mohhammad Hassan Safaralizadeh, Ali Asghar Pourmirza and Somayyeh Ghasemzadeh 412
- Monitoring of rust virulence pattern through avirulence/virulence formula
Muhammad Hussain, Muhammad Aslam Khan, Mumtaz Hussain, Nazir Javed and Ihsan Khaliq 421
- Control of stored grain pest, *Callosobruchus maculatus* (F.) (Coleoptera: Bruchidae), using the essential oils isolated from *Zingiber officinale* (L.) and *Mentha pulegium* (L.) in laboratory condition
Azadeh Loni and Omid Panahi 434
- Influence of cowpea variety on the potency and deterrent indices of six plant powders against the seed bruchid, *Callosobruchus maculatus* (Fabricius) (Coleoptera: Bruchidae)
O.M. Azeez and O.O.R. Pitan 441
- Effect of poultry manure on the growth, yield and root-knot nematode (*Meloidogyne* spp.) infestation of carrot (*Daucus carota* L.)
F. Kankam, E.N.K. Sowley and N.E. Oppong 452

Number 6

Research article

- Development of microbial consortia as a biocontrol agent for effective management of fungal diseases in *Glycine max* L.
A. Thakkar and M. Saraf 459

Articles

- A web-based identification programme for *Pythium* species
Ali Chenari Bouket, Mahdi Arzanlou, Motoaki Tojo and Asadollah Babai-Ahari 475
- Suppression of carbendazim-susceptible and -resistant *Sclerotinia sclerotiorum* with *Macleya* alkaloids
Qingchun Huang, Xiwei Wu, Xiaoqin Yu and Liming Tao 485
- Antifeedant, larvicidal and growth inhibitory activities of fractions from *Clerodendrum phlomidis* Linn. F. against bhendi fruit borer *Earias vittella* Fab
Chellaiah Muthu, Kathirvelu Baskar and Savarimuthu Ignacimuthu 495
- Disease resistance characterisation of improved cassava genotypes to cassava mosaic disease at different ecozones
Oluwole A. Ariyo, Alfred G.O. Dixon, Gabriel I. Atiri, Emma W. Gachomo and Simeon O. Kotchoni 504
- Distribution and partial properties of three viruses infecting cucumber in West Iran and their reservoir weed hosts
Seyyed Hossein Vafaei and Maryam Mahmoodi 519
- First report of postharvest fruit rots of tomato caused by *Fusarium oxysporum* in Iran
Khosrow Chehri 537
- Association of a distinct strain of *Chilli veinal mottle virus* with mottling and distortion disease of *Datura innoxia* in India
Charanjeet Kaur, Susheel Kumar and Shri Krishna Raj 545

Number 7

Articles

- Induction and expression of peroxidase in tomato is age-dependent
Navodit Goel and Prabir Kumar Paul 555
- Antifungal effects of selected botanicals on fungal pathogens of watermelon fruit
Moses A. Abiala, Fatima M. Ayandeko and Adegboyega C. Odebode 569
- Induced systemic resistance in groundnut by foliar application of Headline (Pyraclostrobin 20% WG)
Dhruti Amin, Siva Satya Mohan Jampala and Dhananjay Patel 578
- Genetic variability of *Potato virus Y* (PVY) and *Tobacco etch virus* (TEV) from naturally infected pepper fields in the Hatay region of Turkey
N. Buzkan, B.B. Arpacı, G. Görsoy, M. Zencirkaran and B. Moury 588
- Prevalence and control of wheat (*Triticum aestivum* L.) seed borne fungi in farmer-saved seeds
E. Kadege and H.J.F. Lyimo 601
- Biological properties, transmission, serological characterization and varietal susceptibility of an isolate of Papaya leaf curl virus affecting papaya crops in Eastern Uttar Pradesh, India
Durgesh Dubey, Naveen Pandey, Ajay Kumar Tiwari and Parmatma Prasad Upadhyaya 611

Number 8

Articles

- Effect of vermicompost on nutrition and intermediary metabolism of Colorado potato beetle, *Leptinotarsa decemlineata* (Say) (Coleoptera: Chrysomelidae)
Mozhgan Mardani-Talae, Arash Zibae, Gadir Nouri-Ganbalani, Vahid Rahimi and Pejman Tajmiri 623
- Genetic relationships between virulence, vegetative compatibility and ISSR marker of *Verticillium dahliae* isolated from cotton
Ahmed A. ElSharawy, Guoyi Yang, Xiaoping Hu and Jiarong Yang 646

Integrated control of rice kernel smut disease using plant extracts and salicylic acid

Mohamed Kamal El-kazzaz, Essa Ahmed Salem, Kamal Elsayed Ghoneim, Mohsen Mohamed Elsharkawy, Gabr Abd El-wanees Nasr El-Kot and Zeinab Abd Elnaby Kalboush

664

Molecular identification and determination of the trichothecene chemotypes of fungi causing crown and root in different growth stages of wheat in north of Iran

Mostafa Abedi-Tizaki and Doustmorad Zafari

676

Identification of *Cladosporium delicatulum* as a mycoparasite of *Taphrina pruni*

Haniyeh Amanelah Baharvandi and Doustmorad Zafari

689