

Contents

Research Articles

- Assessing potential pockets on climate suitability for sustainable Hill Banana
(*Virupakshi* – AAB variety) cultivation in India
N. Sivaraj, K. Rameash and B.Sarath Babu 1
- Changes in available nitrogen, grain yield and nutrient uptake under varied levels
of nitrogen applied to different nitrogen fertility gradient strips in finger millet crop
D.V. Naveen, R.C. Gowda, C.A. Srinivasamurty and V.R. Ramakrishna Parama 8
- Effect of manganese nutrition on growth, yield, manganese uptake and quality of Sesame
F. Habimana, P. Stalin and D. Muthumanickam 14
- Effect of Co-Ag doping on structural and optical properties of zinc oxide nanoparticles
K. Meena and J. Balavijayalakshmi 19
- Comparative studies on microsporogenesis in male sterile and fertile plants of Sesame
(*Sesamum indicum* L.)
B. Meena Kumari and K. Ganesamurthy 24
- Temperature and sub-lethal chlorine mediated alterations in acetylcholine esterase
activity and histology in *Labeo rohita* (Hamilton)
R. Rama, A.K. Pal, R.S. Dalvi and M.V. Usha Rani 28
- Development and validation of stability indicating RP-HPLC method for simultaneous
determination of aloin and aloe-emodin
Kumar Narendr, Raju Ram Meghwal and Mohammad Rizwan 34
- Popularization of chickpea production technologies through FLDs in Hadauti
region of Rajasthan
K.C. Meena, Subhash Aswal, T.C. Verma and Bacchu Singh 39
- Management of false smut of rice with new fungicidal molecules
K. Rajappan, P. Ahila Devi and V. Ravi 45
- Grinding characteristics, gravimetric properties and energy constant calculations of
dried and roasted dehulled soybean splits
S. Balasubramanian, Swapnil M. Meshram and Vikash Shukla 48

Molecular identification and characterization of *Vibrio* spp. in different water samples of Lucknow region, Uttar Pradesh using Multiplex PCR
Aashish Tiwari, Uma Shankar and Divya Sahni 55

Short communication

Assessment of water quality of River Ganga using multivariate statistical technique: Principal component analysis
Ruby Pandey and Anupam Dikshit 60

Guidelines for authors i - ii