

## CONTENTS

Page

**Plant Sciences**

- B. Assenov, V. Andjelkovic, D. Ignjatovic-Micic, J. Vancetovic, A. Nikolic, N. K. Christov, S. Tsonev, N. Abu-Mhadi, D. Vassilev, Y. Muhovski, M. Ilchovska and E. Todorovska. Identification of SNP mutations in *MYBE-1* gene involved in drought stress tolerance in maize..... 181
- V. Pesic, R. Djordjevic, E. Kadhum, P. Jankovic and D. Misic. Influence of the *afla* gene on grain yield in pea (*Pisum sativum* L.)..... 186
- K. Erden, A. Ozel, U. Demirel and I. Kosar. Changes in Yield, Yield Components and Essential Oil Composition of Cumin (*Cuminum cyminum* L.) under Different Seed Amount and Inter Row Spacing..... 194
- H. Samaliev and Sht. Kalinova. Host Suitability of Twelve Common Weeds to *Pratylenchus penetrans* and *Meloidogyne hapla* in Potato Fields of Bulgaria..... 202
- Sorapong Benchasri. Preliminary Studies on Incidence of Insect Pests on Okra (*Abelmoschus esculentus* (L.) Moench) in Thailand..... 209
- M. Rajic, N. Nagl, Z. Curcic and Z. Stojakovic. Effect of Thinning Date and Genotype on Some Phenological and Quality Characteristics of Sugar Beet Seed..... 216

**Ecology, Agrochemistry and Soil Science**

- S. D. Royandezagh, K. M. Khawar, A. R. Osalou and S. Ozcan. Agrobacterium mediated genetic transformation of *Papaver somniferum* L. using semi solid agar gelled primed seeds as explant..... 222
- J. Vilcek, S. Torma, P. Adamisin and O. Hronec. Nitrogen Sorption and Its Release in the Soil after Zeolite Application..... 228
- T. Benkovic-Lacic, M. Brmez, M. Ivezic, E. Raspudic, D. Pribetić, Z. Loncaric and D. Grubisic. Influence of organic and inorganic fertilizers on nematode communities in cornfield..... 235
- S. Petrova, L. Yurukova and I. Velcheva. *Taraxacum officinale* as a biomonitor of metals and toxic elements (Plovdiv, Bulgaria)..... 241
- L. O. Nethononda, J. J. O. Odhiambo and D. G. Paterson. Spatial variability of soil penetrability and distribution of compaction layer as affected by long-term ploughing at shallow depth in Rambuda irrigation scheme in Vhembe District, South Africa..... 248
- G. Beev, S. Denev and D. Bakalova. Zearalenone - producing activity of *Fusarium graminearum* and *Fusarium oxysporum* isolated from Bulgarian wheat..... 255
- O. Tatar, C. Ozalkan and G. D. Atasoy. Partitioning of dry matter, proline accumulation, chlorophyll content and antioxidant activity of chickpea (*Cicer arietinum* L.) plants under chilling stress..... 260
- A. H. Shirani Rad, A. Abbasian and H. Aminpanah. Evaluation of rapeseed (*Brassica napus* L.) cultivars for resistance against water deficit stress..... 266
- C. N. Deng, X. L. Pan and F. Q. Chang. Redundancy analysis revealing relationship between water-salinity and the eco-physiological responses of *Phragmites australis* in Momoge Wetland, China..... 274
- A. Ayneband, F. Gerami and E. Fateh. Green manure crops and n rates influence on variability of dry matter and N content at anthesis and maturity in wheat (*Triticum aestivum* L.)..... 282

**Food Science and Technologies**

- I. Nacheva, K. Aleksieva, K. Dimov, D. Miteva and Tsv. Tsvetkov. Identification of gamma irradiated lyophilized forest fruits by EPR Spectroscopy..... 293
- P. G. Rasgele and F. Kaymak. Effects of food preservative natamycin on liver enzymes and total protein in *mus musculus*..... 298

**Agricultural Economics**

- M. Sayili, F. Adiguzel and B. Gozener. Investigation on madimak consumption status of consumers in central Tokat province..... 303
- A. Semerci. Determining the resource use efficiency in wheat (*Triticum aestivum* L.) production: A case study of Edirne Province – Turkey..... 314

*continues inside*

## CONTENTS (continued)

Page

### Veterinary Medicine

- T. P. Popova and K. Kanchev. Microflora of internal organs and muscles of lambs and pigs in spontaneous infection with *Cysticercus tenuicollis*..... 325
- R. Mihaylov, R. Dimitrov, E. Raichev, D. Kostov, K. Stamatova-Yiovcheva, D. Zlatanova and B. Bivolarski. Morphometrical features of the head skeleton in brown bear (*Ursus arctos*) in Bulgaria..... 331

### Forest Science

- B. Trudic, V. Galovic, S. Orlovic, P. Pap and S. Pekec. A strategy for the identification of a candidate gene for drought induced stress in english oak (*Quercus robur* L. (*Q. pedunculata* Ehrh.)), *Fagaceae*..... 338
- A. Tashev. *Pulsatilla styriaca* (Pritzel) Simonk. (Ranunculaceae) - a new species for Bulgarian flora..... 347
- S. Georgiev, A. Tashev and K. Koev. Eco-biological characteristics of medicinal plants in the maintained reserve "Balabana" (the river Tundzha hilly valley)..... 353

### Agricultural Technique

- S. Boyar, A. K. Bayhan and E. Dikmen. Investigation on drying behavior of Isparta rose flowers (*Rosa damascena* Mill.) under natural shade conditions..... 361
- S. Altikat. Effects of strip width and tractor forward speed on sowing uniformity of maize and sunflower..... 375
- A. Levi, H. Beloev and N. Kolev. On the biaxial distribution of anisotropic elastic modulus of thin-plate polycrystalline elements and his identification in agricultural machinery with ultrasonic methods..... 383