

**Agricultural Economics**

K. Domanska, T. Kijek and A. Nowak. Agricultural Total Factor Productivity Change and Its Determinants in European Union Countries..... 1273

L. Satola, T. Wojewodzic and M. Dacko. Do Divestments and Investments Determine Farm Development?.... 1281

**Ecology, Soil Science and Landshaft**

M. Al-Mahasneh, F. Alkoaik, A. Khalil, R. Fulleros and A. El-Waziry. Effect of Temperature on Moisture Sorption Isotherms and Monolayer Moisture Content of Bermuda Grass (*Cynodon Dactylon*)..... 1289

K. Jankowski, J. Jankowska, G. A. Ciepiela, B. Wisniewska-Kadzajan, R. Kolczarek and J. Sosnowski. Effect of Hydro Gel and Soil Cover on Root Mass Produced by the Lawn Mixtures in the Years 2007-2009..... 1295

Yiru Yang, Xingxiang Wang, Taolin Zhang and Decheng Li. Utilization of Crop Straw Resources in Anhui Province, Eastern China..... 1302

D. Grazhdani. Integrating Ecosystem Services into Assessment of Different Management Options in a Protected Area: A Deliberate Multi-Criteria Decision Analysis Approach..... 1311

D. Boshev, M. Jankulovska, S. Ivanovska, L. Jankuloski, B. Kuzmanovska and V. Tanaskovic. Evaluation of Maize Hybrids for Grain Yield Stability under Rainfed and Irrigated Conditions Using GGE Biplot Analysis ..... 1320

P. Barłog, W. Grzebisz, W. Szczepaniak and K. Peplinski. Sugar Beet Response to Balanced Nitrogen Fertilization with Phosphorus and Potassium. Part II. Dynamics of Beet Quality ..... 1326

H. Teimoory, G. Amin, B. Riazi, M. Karami, M. Z. H. Abadi and M. Rezaei. The Chemical Composition of Essential oil of *Artemisia sieberi* by GC/MC: Focused on Biodiversity..... 1334

M. Haliniarz, D. Gaweda, C. Kwiatkowski, M. Frant and M. Rozanska-Boczula. Weed Biodiversity in Field Pea under Reduced Tillage and Different Mineral Fertilization Conditions..... 1340

L. O. Nethononda, J. J. O. Odhiambo and D. G. Paterson. Land Suitability for Specific Crop Ranges Using Dynamic Land Suitability Evaluation Guidelines for Small-Scale Communal Irrigation Schemes..... 1349

R. Bulgari, N. Podetta, G. Cocetta, A. Piaggese and A. Ferrante. The Effect of a Complete Fertilizer for Leafy Vegetables Production in Family and Urban Gardens..... 1361

Faridullah, Z. Nisar, A. Alam, M. Irshad and M. A. Sabir. Distribution and Evaluating Phosphorus, Potassium, Calcium and Magnesium in the Fresh and Composted Poultry Litter..... 1368

V. Vutov and D. Dimitrov. Flora and Vegetation of the Natural Formation the „Komatinski Rocks“– Vlahina Mountain..... 1375

L. Dospatliev, P. Zaprjanova, K. Ivanov and V. Angelova. Correlation between Soil Characteristics and Iron Content in Aboveground Biomass of Virginia Tobacco..... 1380

A. P. Grozdanov, N. D. Tzankov, C. Andres and S. G. Popova. Microhabitat use in sand Lizard - *Lacerta Agilis Chersonensis* (Squamata, Lacertidae) as an Indicator for Planning of Different Management Practices for Pastures..... 1386

**Food Science and Technologies**

H. Çelik, H. Nadaroglu and M. Senol. Evaluation of Antioxidant, Antiradicalic and Antimicrobial Activities of Olive Pits (*Olea europaea* L.)..... 1392

M. Doneva, I. Nacheva, P. Metodieva, Y. Todorov, D. Miteva, L. Georgieva and Tsv. Tsvetkov. Application of Cryobiotechnologies for Development of Lyophilized Polyenzyme Complexes..... 1401

P. Zapotoczny and M. Markowski. Influence of Hypobaric Storage on the Quality of Greenhouse Cucumbers..... 1406

## Plant Sciences

- F. A. Tonk, M. Tosun, E. Ilker, D. Istipliler and O. Tatar. Evaluation and Comparison of ISSR and RAPD Markers for Assessment of Genetic Diversity in Triticale Genotypes..... 1413
- P. K. Czuchaj and S. J. Szczepaniak. Flowering of *Heuchera* L. Cultivated in Full Sunlight and in Semi-Shade..... 1421
- A. Schroeter-Zakrzewska and T. Kleiber. The Effect of Light Colour and Type of Lamps on Rooting and Nutrient Status in Cuttings of Michaelmas Daisy..... 1426
- S. Stamatov and M. Deshev. Selection Approaches for the Sesame Forms Suitable for Mechanized Harvesting..... 1435
- Z. Abbes, M. Mkadmi, I. Trabelsi, M. Amri and M. Kharrat. *Orobanche Foetida* Control in Faba Bean by Foliar Application of Benzothiadiazole (Bth) and Salicylic Acid..... 1439
- J. Encheva, H. Kohler, M. Christov, P. Shindrova, V. Encheva and W. Friedt. New Sunflower (*H. annuus* L.) Lines as Results of Interspecific and Intergeneric Hybridization and Application of Method of Direct Organogenesis in F1 Immature Embryo..... 1444
- J. Lou, G. H. Yue, W. Q. Yang, H. W. Mei, L. J. Luo and H. J. Lu. Mapping QTLs Influencing Stigma Exertion in Rice..... 1450
- T. Ahmad, M. Amjad, Q. Iqbal, A. Nawaz and Z. Iqbal. Integrated Nutrient Management Practices Improve Growth and Yield of Carrot..... 1457

## Animal Science

- Z. Ledvinka, L. Zita, M. Tyller, P. Dobrovolny, L. Klesalova and H. Tyllerova. Effect of Genotype, Feather Growth-Rate Gene and the Age of Hens on the Egg Quality..... 1466
- S. Grigorova, M. Nikolova, D. Penkov and V. Gerzilov. Egg Yolk Lipids Change in Japanese Quail Given *Tribulus Terrestris* Extract..... 1472
- M. Vyletelova-Klimesova, O. Hanus, A. Dufek, I. Nemeckova, J. Horacek, A. Ponizil and L. Nejeschlebova. *Staphylococcus aureus* and Other Pathogens in Relation to Breed of Cattle and Somatic Cell Count..... 1477
- J. Kvapilik, O. Hanus, J. Syrucek, M. Vyletelova-Klimesova and P. Roubal. The Economic Importance of the Losses of Cow Milk Due to Mastitis: A Meta-Analysis..... 1483

## Veterinary Medicine

- D. S. Dimitrov. The Lachrymal Gland in Manchurian and Pharaoh Japanese Quails – A Histometrical Investigation..... 1498
- E. Slyzius, V. Juozaitiene, A. Juozaitis, V. Zilaitis, B. Slyziene and E. Cereskiene. Udder Quarters Morphological and Milking Traits Risk Factors Influencing Productivity and Subclinical Mastitis in Dairy Cows.... 1502

## Agricultural Technique

- K. Kostov, I. Palov, K. Sirakov, E. Kuzmanov and S. Zahariev. Effect of Pre-Sowing Electric Treatments of Seeds on the Yields of Wheat Varieties Enola and Kristy..... 1508
- S. Nukeshev, D. Eskhozhin, D. Karaivanov and K. Eskhozhin. Determination of Parameters of the Main Distributor for Fertilizer Applying Machine..... 1513