

**AGRICULTURAL ECONOMICS**

- Erika Besusparienė and Astrida Miceikienė** – The influence of subsidies and taxes on economic viability of family farms in Lithuania ..... 3

- Nicola Galluzzo** – Analysis of resilience in Romanian rural farm areas by a quantitative approach ..... 16

**AGRICULTURAL MANAGEMENT**

- Petro Putsenteilo, Yuriy Klapkiv, Vitalii Karpenko and Irina Gvozdecka** – The role of institutions in the development of agriculture ..... 23

- Hamidah Hendrarini, Rifan Jefri Sunarsono, Yuni Erviyanti and Teguh Soedarto** – The identification of ready-to-eat banana's superior attributes through the fishbein multi-attribute approach ..... 34

**SUSTAINABLE AGRICULTURE**

- Yanka Kazakova-Mateva** – Regional uptake of environmentally focused rural development measures in Bulgaria ..... 43

- Maryam Bagheri, Seyed Mehdi Mirdamadi, Seyed Jamal Farajollah Hosseini and Farhad Lashgarara** – Designing a structural model of participatory management for the development of sustainable urban green spaces ..... 53

- Irena Golubinova** – Effects of drought stress in genotypes *Sorghum vulgare* var. *technicum* [Körn.] by using sucrose in laboratory condition ..... 61

- Mee Mee, Pilaiwan Prapruit and Ayut Nissapa** – Role of different farming systems to assess households' food security: A case study in Yamethin District, dry zone region of Myanmar ..... 70

**ECOLOGICAL FARMING**

- Alexandra D. Solomou, Elpiniki Skoufogianni and Nicholaos G. Danalatos** – Exploitation of soil properties for controlling herbaceous plant communities in an organic cultivation of *Lippia citriodora* in the Mediterranean landscape ..... 79

- Maya Benkova, Lyuba Nenova, Tsetska Simeonova and Irena Atanassova** – The effect of Fluvisol applied biochar on wheat yield and nutrient uptake ..... 84

- Natalia Georgieva, Valentin Kosev** – Model of forage pea (*Pisum sativum* L.) cultivar in conditions of organic production ..... 91

- Botir Khaitov, Aziz Karimov, Anvar Abdiev, Jabborov Farrukh and Kee Woong Park** – Beneficial effect of *Rhizobium* inoculation on growth and yield of chickpea (*Cicer arietinum* L.) in saline soils ..... 96

**PLANT SCIENCE**

- Omar M. Al Zoubi** – Effect of mechanical and chemical scarifications of date palm seeds (*Phoenix dactylifera* L.) on *in vitro* germination ..... 105

- Verica Ilieva, Natalija Markova Ruzdik, Darina Vulcheva, Mite Ilievski and Ljupcho Mihajlov** – Milled rice in relation to variety and paddy grain moisture at harvest ..... 114

**PLANT GENETICS AND GENOMICS**

- Shadi Heidari, Peivand Heidari, Reza Azizinezhad, Alireza Etminan and Mahmood Khosroshahli** – Assessment of genetic variability, heritability and genetic advance for agro-morphological and some *in-vitro* related-trait in durum wheat ..... 120

- Yovko Dyulgerski** – Hybridological analysis of the size of the leaves in hybrid combinations Burley tobacco ..... 128

**PLANT PATHOLOGY AND PROTECTION**

- Shteliyana Kalinova, Plamen Marinov-Serafimov, Irena Golubinova and Valentina Encheva** – Alelopathic effect of sunflower broomrape (*Orobanche cumana* Wallr.) on the development of sunflower (*Helianthus annuus* L.) ..... 132

<b>Thein Naing Soe, Aran Ngampongsai and Wisut Sittichaya</b> – Bioactivity of some plant essential oils for seed treatment against pulse beetle, <i>Callosobruchus maculatus</i> (F.) (Coleoptera: Bruchidae) on mung bean.....	141
<b>Mitko Georgiev</b> – Influence of some herbicides and herbicide combinations on the structural elements of yield and some quality indicators in common wheat grain .....	148
<b>AGROCHEMISTRY AND SOIL SCIENCE</b>	
<b>Sengul Tongarlak, Mehmet Zengin and Amrakh Mamedov</b> – Investigating cadmium accumulation in wheat and barley cultivars from acidic soil of Central Turkey.....	157
<b>Kyriakos D. Giannoulis, Dimitrios Bartzialis, Elpiniki Skoufogianni and Nicholaos G. Danalatos</b> – Assessing the efficiency of different fertilizer type and levels on maize yield.....	167
<b>Fadzil Suhaimi Fadzillah Adibah, Md. Sarwar Jahan and Hasan Nudin Nur Fatihah</b> – Betaine-rich Nano fertilizer improves growth parameters of <i>Zea mays</i> var. <i>saccharata</i> and <i>Arabidopsis thaliana</i> under salt stress .....	177
<b>Josimar N. Silva, Jean C. D. Oliveira, Énio K. L. Martins, Edivan S. Nunes Júnior, Toni H. S. Irineu, Aridênia P. Chaves and Andpaulo C. A. Linhares</b> – Soil fertility evaluation of agricultural areas of cashew community of Catolé Rocha-PB .....	186
<b>ECOLOGY</b>	
<b>Martin Banov, Venera Tsolova and Ivaylo Kirilov</b> – Reclamation of heaps and industrial sites built in the region of Madjarovo mine (Bulgaria).....	192
<b>Yanko Dimitrov, Nedyalka Palagacheva, Plamen Zorovski, Stoyan Georgiev, Rositsa Mladenova and Zheko Radev</b> – Species composition of major pollinators in agricultural agroecosystems .....	198
<b>Mariya Zhelyazkova, Neli Grozeva, Svetlana Georgieva</b> – Karyotype studies of endemic species <i>Moehringia grisebachii</i> (Caryophyllaceae) from Sredna Gora Mts, Bulgaria .....	202
<b>ANIMAL SCIENCE</b>	
<b>Andrea Prágai and Alfréd Kovács</b> – Stress of alpacas caused by shearing in Hungary.....	207
<b>FISHERIES AND AQUACULTURE</b>	
<b>Momotaz Khanom, Muhammad Abdur Rouf, Nazmul Ahsan, Noman Siddiqui and Tea Tomljanović</b> – Morphological characteristics, growth and age structure of allochthonous fish pumpkinseed, <i>Lepomis gibbosus</i> in Bara Lake, Croatia .....	213
<b>Yordan Cherpakov, Ivaylo Sirakov, Stefka Stoyanova, Katya Velichkova, Apostol Simitchiev, Ventsislav Nenov, Todor Slavov</b> – The influence of Nu Pro® as a substitution of fish meal on the growth performance of rainbow trout ( <i>Oncorhynchus mykiss</i> W.), cultivated in recirculating system.....	223
<b>Radoslav Koshinski, Katya Velichkova, Ivaylo Sirakov and Stefka Stoyanova</b> – Effect of <i>Angelica archangelica</i> L. extract on growth performance, meat quality and biochemical blood parameters of rainbow trout ( <i>Oncorhynchus mykiss</i> W.), cultivated in a recirculating system .....	232
<b>FOOD SCIENCE AND TECHNOLOGIES</b>	
<b>Ralitsa Balkanska, Katerina Stefanova, Radostina Stoikova-Grigorova and Maya Ignatova</b> – A preliminary assessment of <i>trnH-psbA</i> as DNA barcode for botanical identification of polyfloral honey samples and comparison with <i>rbcL</i> marker .....	238
<b>AGRICULTURAL ENGINEERING</b>	
<b>Ivaylo Sirakov</b> – The cleaning capacity and productivity of LECA® and Floating raft aquaponic filters in an integrated recirculation system .....	243
<b>Vasilka Krasteva</b> – Influence of initial stocking density on growth performance and survival of European catfish ( <i>Silurus glanis</i> L.) larvae under controlled conditions .....	248