

SUMMARY

SOIL SCIENCES

1. RESEARCH ON EARTHWORM COMMUNITY IN MAIZE CROP IN BORCEA, CĂLĂRAȘI - **Angela Cristina AMUZA, Leonard ILIE** 13
2. LAND CAPABILITY AND SUITABILITY ANALYSIS FOR VINEYARDS IN SĂLAJ COUNTY, ROMANIA - **Istvan BARTHA, Cornel NEGRUȘIER, Mihai BUTA, Orsolya NEGRUȘIER, Ioan BRAȘOVEAN, Laura PAULETTE** 19
3. DYNAMICS OF SOIL BACTERIAL COMMUNITIES UNDER WINTER WHEAT IN THE NORTH-EAST PART OF ROMANIA - **Andrei-Mihai GAFENCU, Andreea-Mihaela FLOREA, Florin-Daniel LIPȘA, Eugen ULEA** 31
4. USING THE BULK DENSITY AND PARTICLE SIZE COMPOSITION OF SOIL AS SUSTAINABILITY INDICATORS TO CHARACTERIZE A SILVOARABLE ECOSYSTEM OF ROMANIA - **Mădălina IORDACHE, Romina MAZARE, Iacob BORZA** 37
5. PEDOLOGICAL AND AGROCHEMICAL STUDY ON THE AREA IN PERIȘORU AREA, CĂLĂRAȘI COUNTY - **Marian MUȘAT, Roxana MADJAR, Lavinia BURTAN, Alina NIȚU** 44
6. THE ROLE OF IRON COMPOUNDS IN THE FORMATION OF THE FERTILITY OF HYDROMORPHIC SOILS OF THE FLOODPLAINS OF THE LEFT BANK FOREST STEPPE OF UKRAINE - **Nataliia PALAMAR, Oleksandr KAZIUTA** 51
7. THE EFFECT OF HISTORICAL POLLUTION ON MICROBIAL FUNCTIONAL KINETICS IN BIOREMEDIATED SOILS FROM BAI A MARE - **Bianca POP, Roxana VIDICAN, Larisa CORCOZ, Vlad STOIAN** 58
8. PEDOLOGICAL STUDY IN THE SOUTHWESTERN PART OF MEHEDINȚI COUNTY, VRANCEA AREA - **Cristian POPESCU** 71
9. STUDY ON SOIL RESOURCES AND THE LIMITING FACTORS OF LAND USE IN DRAGANESTI AREA, PRAHOVA COUNTY - **Mariana Mihaela PRISECARU (URZICĂ), Mircea MIHALACHE, Valentina Mihaela VASILE** 81
10. THE CALCIUM CARBONATE EVOLUTION INFLUENCING THE PHYSICO-CHEMICAL CHARACTERISTICS OF THE LONG TERM IRRIGATED CHERNOZEMS AND THEIR CLASSIFICATION - **Daniela RADUCU, Irina-Carmen CALCIU, Olga VIZITIU, Alina-Carmen GHERGHINA, Alexandrina MANEA, Anca-Rovena LĂCĂTUȘU** 88
11. METHODS OF REMEDIATION OF SALINE SOILS IN LONG-TERM EXPERIENCES AND THROUGH RICE CULTIVATION AT ARDȘ BRAILA - **Daniela TRIFAN, Alin Ionel GHIORGHE, Emanuela LUNGU, Daniel George ȘERBAN, Vlad MIHĂILĂ** 94

CROP SCIENCES

1. STUDY OF AGRONOMIC CHARACTERISTICS OF AN ASSORTMENT OF SWEET CORN HYBRIDS - **Claudia Ramona AVRAM, Ștefan Laurențiu BĂTRÎNA, Ilinca IMBREA, Lucian BOTOȘ, Simona NIȚĂ, Florin CRISTA, Saida FEIER DAVID, Florin IMBREA** ... 103
2. THE EFFECT OF CROP ROTATION AND SEED INOCULATION ON SOYBEAN YIELD, YIELD ELEMENTS AND SEED QUALITY - **Simona BALAȘ, Camelia URDĂ, Alina ȘIMON, Florin RUSSU, Dina Ramona GALBEN, Marcel Matei DUDA** 108

3.	THE INFLUENCE OF TILLAGE SYSTEM AND FERTILIZATION ON TWINNING AND THE OBTAINING OF PRODUCTIVE SIBLINGS IN THE GRAIN SORGHUM IN THE CONDITIONS OF SĂRĂȚENI, IALOMIȚA - Andrei BĂNICĂ, Doru Ioan MARIN	115
4.	CORRELATION DEPENDENCES OF QUANTITATIVE TRAITS IN WINTER PEA GENOTYPES - Ancuța BĂRBIERU	120
5.	PHENOTYPIC DIVERSITY OF COMMON BEAN (<i>Phaseolus vulgaris</i> L.) GERMPLASM, A POTENTIAL CROP FOR ENSURING FOOD SECURITY - Diana BATÎR RUSU, Danela MURARIU, Domnica Daniela PLĂCINTĂ, Cristian TUDOSE, Elena Liliana CHELARIU, Oana MÎRZAN, Margareta NAIE	126
6.	THE YIELD AND GRAINS QUALITY OF SOME MAIZE HYBRIDS CREATED AT ARDS TURDA - Ancuța Loredana CECLAN, Roxana Elena CĂLUGĂR, Andrei VARGA, Carmen Daniela VANA, Camelia URDĂ, Voichița Virginia HAȘ, Leon MUNTEAN	134
7.	RESEARCH ON THE INFLUENCE OF CLIMATIC PARAMETERS ON THE GEOGRAPHICAL DISTRIBUTION OF THE PEST <i>Tanymecus dilaticollis</i> Gyll. IN THE ROMANIAN PLAIN - Andrei CHIRILOAIE-PALADE, Mihai GÎDEA, Viorel FĂTU, Roxana ZAHARIA	142
8.	RESEARCH ON WHEAT SEED GERMINATION AS A FUNCTION OF TEMPERATURE, UNDER THE INFLUENCE OF TREATMENT WITH BIOSTIMULATORS AND AT DIFFERENT LEVELS OF FERTILIZATION - Elena CIOCAN (NUNCĂ), Șerban Cătălin DOBRE, Doru Ioan MARIN	148
9.	EFFECT OF SOWING DENSITY ON QUANTITY AND QUALITY OF PRODUCTION IN WINTER BARLEY (<i>Hordeum vulgare</i> L.) - Raluca Monica CRISTEA, Marga GRĂDILĂ, Daniel JALOBĂ, Valentin-Marius CIONTU, Doru Ioan MARIN	155
10.	PHENOTYPIC DISTANCE OF BULGARIAN AND HUNGARIAN COMMON WINTER WHEAT GENOTYPES - Evgeniy DIMITROV, Zlatina UHR, Rangel DRAGOV, Teodora ANGELOVA	161
11.	GROWING POTATOES WITH REDUCED TILLAGE - Georgi DIMITROV	167
12.	THE INFLUENCE OF MINERAL FERTILIZERS ON THE DYNAMICS OF THE ACCUMULATION OF MAIN MACROELEMENTS IN THE SOIL AND IN WHEAT PLANTS - Ana Maria DODOCIOIU, Gilda-Diana BUZATU	173
13.	THE INFLUENCE OF SOWING DATE ON DEVELOPMENT OF MAIZE IN THE CONDITIONS OF CENTRAL ROMANIA - Zsuzsa DOMOKOS, Alina ȘIMON, Adrian CECLAN, Camelia URDĂ, Marcel Matei DUDA	181
14.	THE STATISTICAL ANALYSIS OF THE PRODUCTIVITY AND THE BENEFIT OF PESTICIDES APPLICATION IN THE SOUTH-EAST REGION, ROMANIA - Mariana Carmelia DRAGOMIR BĂLĂNICĂ, Alina Gabriela CIOROMELE, Nicoleta AXINTI, Valentina VOICU	190
15.	THE CONSEQUENCES OF THE USE OF FERTILIZERS ON THE PRODUCTION OF THE MAIN CULTIVATED PLANTS, IN THE SOUTH-EAST REGION, ROMANIA - Mariana Carmelia DRAGOMIR BĂLĂNICĂ, Alina Gabriela CIOROMELE, Nicoleta AXINTI, Valentina VOICU	197
16.	GRAIN YIELD STABILITY ANALYSIS USING PARAMETRIC AND NONPARAMETRIC STATISTICS OF BULGARIAN AND HUNGARIAN COMMON WINTER WHEAT GENOTYPES - Rangel DRAGOV, Evgeniy DIMIRTOV, Teodora ANGELOVA, Zlatina UHR	204
17.	YIELD AND GRAIN QUALITY OF WINTER WHEAT UNDER SHORT-TERM ORGANIC AND MINERAL FERTILIZATION IN A SYLVOSTEPPE AREA FROM ROMANIA - Elena Mirela DUȘA, Mihaela VASILE, Ana-Maria STANCIU, Ciprian BOLOHAN, Mădălin RADU, Vasilica STAN	209

18. YIELD STABILITY AND SEED QUALITY UNDER DIFFERENT CLIMATIC CONDITIONS AT SOME EUROPEAN AND CHINESE SOYBEAN GENOTYPES - Dina Ramona GALBEN, Camelia URDĂ, Raluca REZI, Adrian NEGREA, Alina ȘIMON, Marcel Matei DUDA	216
19. AGRO-CLIMATIC CONDITIONS FOR GROWING OF SUNFLOWER IN DIFFERENT CLIMATIC AREA IN BULGARIA - Veska GEORGIEVA, Valentin KAZANDJIEV, Stoyan GEORGIEV, Stephan RASHEV, Daniela VALKOVA, Gallina MIHOVA, Dragomir VALCHEV, Vesselina DOBREVA	224
20. THE INFLUENCE OF SEED TREATMENT ON GRAIN YIELD AND THEIR QUALITY IN SOME VARIETIES AND LINES OF WINTER WHEAT (<i>Triticum aestivum</i> L.) - Robert Marian GHEORGHE, Cristina GHIORGHE	232
21. COMPARATIVE ANALYSIS OF VARIOUS WINTER WHEAT VARIETIES CULTIVATED UNDER THE CLIMATIC CONDITIONS OF ARDS BRAILA - Alin-Ionel GHIORGHE, Gabriela Alina CIOROMELE, Daniela TRIFAN, Nicoleta AXINTI, Luxița RÎȘNOVEANU, Marian BRĂILĂ, Emanuela LUNGU	238
22. SOME AGROBIOLOGICAL PECULIARITIES AND QUALITY INDICES OF BIOMASS OF <i>Macleaya cordata</i> ‘MIHAELA’ - Ana GUȚU, Victor ȚÎȚEL, Igori CASIAN, Ana CASIAN, Mihaela ABABII, Natalia CÎRLIG, Victor MELNIC, Alexei ABABII	244
23. FORMATION OF YIELD AND BIOCHEMICAL PARAMETERS OF WINTER WHEAT GRAIN DEPENDING ON AGRONOMIC PRACTICES OF CULTIVATION - Iryna HASANOVA, Yanina ASTAKHOVA, Nataliia NOZDRINA, Mykola SOLODUSHKO, Oleksandr PEDASH, Olena DRUMOVA, Natalia ZAVALYPICH	250
24. RESEARCH REGARDING THE INFLUENCE OF INTERMEDIATE CROPS ON POTATO HARVEST AND QUALITY FOR CONSUMPTION - Ioana Alina HÎNDA, Ștefan Laurențiu BĂTRÎNA, Lucian BOTOȘ, Simona NIȚĂ, Florin IMBREA	258
25. EFFECTS OF DIFFERENT COMPLEX FERTILIZERS AND THEIR APPLICATION METHODS AT SUNFLOWER - Florin Mădălin JENARU, Viorel ION	263
26. TESTING NEW DURUM WHEAT VARIETIES FOR PRODUCTIVITY - Tanko KOLEV, Zhivko TODOROV	269
27. RESEARCH ON CYTOGENETIC EFFECTS INDUCED BY TREATMENTS WITH DIFFERENT MUTAGENIC SUBSTANCES IN <i>Arachis hypogaea</i> L. (ARAHIDS) - Oana MÎRZAN, Margareta NAIE, Diana BATÎR RUSU, Mihai STAVARACHE, Elena STAVARACHE, Constantin LUNGOCI	276
28. PHENOLOGICAL DEVELOPMENT AND GRAIN YIELDS FOR TRITICALE VARIETIES IN CENTRAL SOUTHERN BULGARIA - Angelina MUHOVA, Stefka STEFANOVA-DOBREVA, Viliana VASILEVA, Georgi RUSENOV	283
29. THE IMPROVEMENT OF <i>Nardus stricta</i> L. PERMANENT MEADOW FROM THE DORNA DEPRESSION THROUGH MINERAL AND ORGANIC FERTILIZATION - Adrian-Ilie NAZARE, Mihai STAVARACHE, Costel SAMUIL, Vasile VÎNTU	294
30. ALLELOPATHIC EFFECT OF <i>Elettaria cardamomum</i> ESSENTIAL OIL VAPOURS ON THE WINTER SEED MYCOFLORA AND GERMINATION - Simona NIȚĂ, Diana OBIȘTOIU, Anca HULEA, Lucian NIȚĂ, Ilinca Merima IMBREA, Ștefan Laurențiu BĂTRÎNA, Lucian BOTOȘ	302
31. OPTIMIZING DRIP IRRIGATION YIELD IN GRAIN MAIZE CULTIVATION IN EASTERN ROMANIA - Oana Alina NIȚU, Marinela GHEORGHE, Elena Ștefania IVAN, Mihaela BĂLAN	307
32. MANAGEMENT OF FEW MAIN WHEAT DISEASES USING ALTERNATIVE ORGANIC PRODUCTS WITH FUNGICIDE EFFECT – A REVIEW - Mirela PARASCHIVU, Milica DIMA, Alina Marinela PRIOTEASA	314

33. EXPERIMENTAL RESULTS ON ALTERNATIVE WAYS OF INCREASING THE pH OF ACID SOILS, USING CARBONATION MUD (DEFECATION LIME), THE WASTE FROM SUGAR BEET INDUSTRY - Diana PETRE, Ioan GHERMAN, Manuela HERMEZIU, Nina BĂRĂSCU	326
34. THE EFFECT OF HISTORICAL POLLUTION ON MICROBIAL FUNCTIONAL KINETICS IN BIOREMEDIATED SOILS FROM BAIA MARE - Bianca POP, Roxana VIDICAN, Larisa CORCOZ, Vlad STOIAN	333
35. STUDY ON WINTER WHEAT PRODUCTION AND QUALITY IN THE PECICA-ARAD AREA - Cecilia Iuliana POP, Ștefan Laurențiu BĂTRÎNA, Ilinca Merima IMBREA, Georgeta POP, Simona NIȚĂ, Ioana Alina HINDA, Lucian BOTOȘ, Florin IMBREA	347
36. THE INFLUENCE OF ORGANIC AND MINERAL FERTILIZATION ON SUGAR BEET CULTURE IN COVASNA COUNTY - Bianca-Ana Maria POPA, Mircea MIHALACHE ...	352
37. THE INFLUENCE OF MICROBIAL BIOFERTILIZERS ON THE BALANCE OF NUTRITIONAL ELEMENTS ON SOILS WITH DIFFERENT DEGREES OF EROSION - Leonid POPOV, Tatiana DAVID	357
38. WESTERN CORN ROOTWORM (<i>Diabrotica virgifera virgifera</i> Le Conte) - APPEARANCE AND DISTRIBUTION IN CENTRAL-SOUTH BULGARIA - Stefan RASHEV, Nedyalka PALAGACHEVA, Sara IVANOVA, Stoyan GEORGIEV	363
39. THE MANAGEMENT OF WEEDS USING NEW GENERATION HERBICIDES IN MAIZE - Călin SĂLCEANU, Mirela PARASCHIVU, Veronica SĂRĂȚEANU, Otilia COTUNA, Aurel Liviu OLARU	369
40. PRODUCTIVITY AND STABILITY OF BULGARIAN TRITICALE CULTIVARS UNDER DIFFERENT LEVELS OF NITROGEN FERTILIZATION AND CONTRASTING ENVIRONMENTS - Hristo STOYANOV, Stefka STEFANOVA-DOBREVA, Angelina MUHOVA	380
41. IRRIGATION WATER PRODUCTIVITY UNDER DRIP IRRIGATION OF TWO CORN HYBRIDS - Antoniya STOYANOVA, Natalia PETROVSKA, Toncho DINEV, Katia VELICHKOVA, Ivaylo SIRAKOV	392
42. THE INFLUENCE OF MINERAL FERTILIZATION TYPE ON THE PROTEIN CONTENT OF RAPESEED SEEDS AND MEAL - Petrișoara ȘUVEȚ, Lucian BOTOȘ, Simona NIȚĂ, Ilinca Merima IMBREA, Ștefan Laurențiu BĂTRÎNA, Adrian BORCEAN, Ioana Alina HÎNDA, Florin IMBREA	400
43. FEATURES OF GROWTH AND DEVELOPMENT OF <i>Hyssopus officinalis</i> L. IN THE CONDITIONS OF THE SOUTHERN STEPPE OF UKRAINE - Valerii SVYRYDOVSKYI, Liudmyla SVYDENKO, Olha HRABOVETSKA, Nataliia VALENTIUK, Svitlana PETRENKO, Andriy SVYDENKO	406
44. STUDY OF THE EARLY - PRODUCTION RELATIONSHIP IN MAIZE HYBRIDS GROWN AT CARACAL, ROMANIA - Iulia Oana ȘTEFAN, Gabriela PĂUNESCU, Ramona Aida PĂUNESCU, Aurel-Liviu OLARU, Marin ȘTEFAN	411
45. THE EVOLUTION OF PESTICIDES USE IN THE CONTEXT OF SUSTAINABILITY OF AGRI-FOOD SYSTEMS - Maria TOADER, Emil GEORGESCU, Lenuța Iuliana EPURE, Viorel ION, Adrian Gheorghe BĂȘA, Elena Mirela DUȘA, Mihaela Valentina VASILE, Alina Maria IONESCU	417
46. RESEARCH ON THE INFLUENCE OF THE CULTIVATED GENOTYPE AND THE SOWING SCHEME ON THE GRAINS QUALITATIVE PARAMETERS AT TWO-ROW BARLEY - Alexandru Iulian TOMA, Ricuța Vasilica DOBRINOIU, Mihai GÎDEA	427

47. CHLOROPHYLL CONTENT, PHENOLOGY, AND MORPHOLOGICAL TRAITS OF WHEAT UNDER SALINITY STRESS - Mădalina TRUȘCĂ, Valentina STOIAN, Ștefania GÂDEA, Anamaria VÂTCĂ, Irena JUG, Bojana BROZOVIĆ, Carmen BEINȘAN, Sorin VÂTCĂ	433
48. INHERITANCE IN F1 AND TRANSGRESSIVE VARIABILITY IN F2 POPULATIONS OF MAIN SPIKE LENGTH SOFT WINTER WHEAT - Halyna USTYNOVA, Mykola LOZINSKYI, Mykola GRABOVSKYI, Valentyna SABADYN, Serhii OBRAZHYYI, Yuliia KUMANSKA, Irina SIDOROVA	445
49. SOYBEAN CROP DEVELOPMENT, YIELD AND HARVEST QUALITY UNDER TWO SOWING DATE - Andrei VARGA, Camelia URDĂ, Raluca REZI, Adrian NEGREA, Alina ȘIMON, Dina Ramona GALBEN, Vasilena GHEORGHIȘ, Marcel Matei DUDA	453
50. MALT QUALITY PARAMETERS OF DIFFERENT BARLEY VARIETIES - Liliana VASILESCU, Alexandrina ȘIRBU, Vratislav PSOTA, Eugen PETCU, Silviu VASILESCU, Lidia CANĂ, Lenuța Iuliana EPURE, Maria TOADER	461
51. EFFECTS OF DIFFERENT FOLIAR TREATMENTS AT MAIZE CROP - Florian VELICU, Viorel ION	467
52. EFFECTS OF DIFFERENT NITROGEN RATES AND FERTILIZERS ON MAIZE YIELD UNDER GROWING CONDITIONS OF SOUTH ROMANIA - Florian VELICU, Viorel ION	473
53. INFLUENCE OF SOWING DATES ON SEED YIELD AND HARVEST MOISTURE OF MAIZE HYBRID PARENTAL LINES - Rayisa VOZHEHOVA, Tetiana MARCHENKO, Yurii LAVRYNENKO, Olena PILIARSKA, Vadim SKAKUN, Oleksandr NETREBA, Valerii PILIARSKYI, Serhii MISHCHENKO, Yevhenii DOMARATSKYI	479

MISCELLANEOUS

1. BRASSICACEAE SPECIES (Brassicaceae Burnett) IN THE COLLECTION OF “ALEXANDRU CIUBOTARU” NATIONAL BOTANICAL GARDEN (INSTITUTE) AS POTENTIAL HONEY PLANTS - Natalia CÎRLIG	487
2. INCIDENCE OF <i>Nezara viridula</i> L. ATTACK ON SOME HOST PLANTS - Minodora GUTUE, Ionela DOBRIN, Emilia CIOCHINA, Vasilica LUCHIAN	495
3. THE EFFECT OF THE USE OF COMPOST AS A FERTILIZER MATERIAL FOR THE CROP OF LETTUCE (<i>Lactuca sativa</i> L.) - Georgiana-Andreea IGNAT, Mirela DUȘA, Nicoleta VRÎNCEANU, Monica Mara STAICU	501
4. POLINATORS DIVERSITY IN RAPESEED CROPS OF SOUTH ROMANIA - Nicoleta ION, Cosmin Alexandru IANCU, Eliza CĂUIA	509
5. POLYCYCLIC AROMATIC HYDROCARBONS OCCURRENCE IN CEREAL BASED-PRODUCTS - A REVIEW - Adriana Laura MIHAI, Mioara NEGOIȚĂ, Alina Cristina ADASCĂLULUI	517
6. APPROACHES TO THE ASSESSMENT OF SOME HABITATS OF COMMUNITY IMPORTANCE IN ROMANIA - Simona MIHĂILESCU, Marilena ONETE, Florian-Paul BODESCU, Iuliana Florentina GHEORGHE, Daniela STRAT, Constantin-Tiberiu SAHLEAN, Roxana-Georgiana NICOARĂ, Luiza-Silvia CHIRIAC, Minodora MANU, John Owen MOUNTFORD	529
7. TENDENCIES IN WET ZONES VEGETATION EVOLUTION UNDER ANTHROPIC DISTURBANCES IN THE ROMANIAN BANAT - Alina NEACȘU, Gabriel ARSENE, Florin SALA, Alina LAȚO, Ilinca IMBREA, Diana OBISTIOIU, Iaroslav LAȚO	540

8.	COMPARISON OF SOME EXTRACTION TECHNIQUES FOR THE DETERMINATION OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) FROM OILSEEDS BY GC-MS/MS - Mioara NEGOIȚĂ, Adriana Laura MIHAI, Alina Cristina ADASCĂLULUI	546
9.	STUDIES ON THE DISTRIBUTION, ECOLOGY AND PHYTOSOCIOLOGY OF <i>Ligularia sibirica</i> L. POPULATIONS IN THE CĂPĂȚĂNI MOUNTAINS, ROMANIA - Mariana NICULESCU	556
10.	CHOROLOGY, ECOLOGY AND PHYTOSOCIOLOGY OF THE <i>Iris variegata</i> L. IN FOREST HABITATS FROM THE SOUTH OF OLTENIA, ROMANIA - Mariana NICULESCU	563
11.	COMPOST QUALITY AND NITROGEN MINERALIZATION DYNAMICS DURING THE MATURITY STAGE OF LAVENDER WASTE COMPOST - Florența (JAFRI) PARASCHIV, Elena Mirela DUȘA, Nicoleta-Olimpia VRÎNCEANU, Vasilica STAN	570
12.	DIVERSE MULTISPECIES INTERCROPPING OF ANNUAL PLANTS FOR ORGANIC FARMERS IN SOUTH-EAST ROMANIA - Victor PETCU, Mihaela POPA, Laurențiu CIORNEI, Petruța Simona SIMION, Adela Sorinela SAFTA, Ioana Claudia TODIRICĂ, Andrei Tudor ZAHARIA	579
13.	THE QUALITATIVE CHARACTERIZATION OF POLYFLORAL HONEY AND THE INFLUENCE OF THERMAL PROCESSING ON HYDROXYMETHYLFURFURAL CONTENT - Maria POPA, Mirel GLEVITZKY, Gabriela-Alina DUMITREL, Dorin-Victor POPA, Ana VÎRSTA	585
14.	NETTLE BREAD, A POTENTIAL FUNCTIONAL PRODUCT - Laura RĂDULESCU, Patricia TARKANYI, Ariana Bianca VELCIOV, Liana Maria ALDA, Simion ALDA, Despina-Maria BORDEAN	591
15.	ARID CLIMATE IMPROVEMENT IN THE LOW PLAIN ARANCA WITH FRUIT TREE AND FOREST SHELTER – BELTS - Gheorghe ROGOBETE, Adia GROZAV	596
16.	STUDIES ON THE DETERMINATION OF IC50 VALUES OF ETHANOLIC AND METHANOLIC EXTRACTS FROM THE SPECIES <i>Amaranthus retroflexus</i> L. (Amarantaceae) - SPONTANEOUS FLORA - Ioan Alexandru SĂRĂCIN, Ionel OBRETIN, Emilia CONSTANTINESCU, Mihnea GLODEANU, Patricia-Aida SĂRĂCIN, Ion SĂRĂCIN	602
17.	RESEARCH ON THE BIODIVERSITY OF CARABIDS (ORDER Coleoptera, FAMILY Carabidae), PREDATORY INSECTS IN SOME AGRICULTURAL ECOSYSTEMS ACCORDING TO THE APPLIED TECHNOLOGY AND IN THE CONTEXT OF NEW CLIMATE CHANGES - Aurelia Renate SIPOS, Mihai TĂLMACIU, Ion MITREA, Monica HEREA, Ionela MOCANU, Nela TĂLMACIU	610
18.	USING RAPD MARKERS TO ESTABLISH DNA FINGERPRINT AND TO STUDY THE GENETIC VARIABILITY DISCRIMINATION BETWEEN TWO ROMANIAN POTATO VARIETIES - Floriana Maria STEFAN, Ioana BERINDEAN, Andreea TICAN, Ionuț RACZ	616
19.	THE BIODIVERSITY OF COLEOPTERO-FAUNA FROM WHEAT CROPS IN THE CONDITIONS OF THE NEW CLIMATE CHANGES AND THE PREMERGING PLANT - Nela TĂLMACIU, Mihai TĂLMACIU, Monica HEREA, Ionela MOCANU, Ion MITREA	624
20.	THE EVALUATION OF THE BIOMASS QUALITY OF TALL OATGRASS, <i>Arrhenatherum elatius</i> (L.) Beauv, AND PROSPECTS OF ITS USE IN MOLDOVA - Victor ȚÎȚEI	632
21.	A NEW RAPESEED TREATMENT COMPOSITION FOR IMPROVED GERMINATION - Doru Gabriel EPURE, Mihai GÎDEA, Mihaela Doina NICULESCU, Lenuța Iuliana EPURE	640
22.	THE ROLE OF TECHNOLOGY IN AGRICULTURAL FARM MANAGEMENT - Iuliana Mirela PINTĂ	646