

## Lista articolelor științifice publicate în anul 2019

### Articole din reviste cu factor de impact:

#### - articole din reviste cu factor de impact mai mare 3

1. BARTOLOME, E.; ARAUZO, A.; LUZON, J.; MELNIC, S.; SHOVA, S.; PRODIUS, D.; BARTOLOME, J.; AMANN, A.; NALLAIYAN, M.; SPAGNA, S. Slow relaxation in a  $\{Tb_2Ba(\alpha\text{-fur})_8\}_n$  polymer with Ln = Tb(III) non-Kramers ions. *Dalton Transactions*. 2019, 48, 5022-5034. DOI: 10.1039/c8dt05044a (IF: 4.099).
2. BARTOLOME, E.; ARAUZO, A.; LUZON, J.; MELNIC, S.; SHOVA, S.; PRODIUS, D.; NLEBEDIM, I.C.; BARTOLOME, F.; BARTOLOME, J. High relaxation barrier in neodymium furoate-based field-induced SMMs. *Dalton Trans.*, 2019, 48(41), 15386-15396. DOI: 10.1039/c9dt02047k. (IF 4,05)
3. DUCA, Gh.; POGREBNOI, S.; BOLDESCU, V.; AKSAKAL, F.; UNCU, A.; VALICA, V.; UNCU, L.; NEGRES, S.; NICOLESCU, F.; MACAEV, F. Tryptanthrin analogues as inhibitors of enoyl-acyl carrier protein reductase: activity against Mycobacterium tuberculosis, toxicity, modeling of enzyme binding. *Current Topics in Medicinal Chemistry*. 2019, 19 (32), 609-619. ISSN:1860-7187. (IF: 3.374).
4. RICHTER, M.; BOLDESCU, V.; GRAF, D.; STREICHER, F.; DIMOGLO, A.; BARTENSCHLAGER, R.; KLEIN, C. D. Synthesis, Biological Evaluation, and Molecular Docking of Combretastatin and Colchicine Derivatives and their hCE1-Activated Prodrugs as Antiviral Agents. *ChemMedChem*, 2019, 14(4), 469-483. (IF: 3.009).

#### - articole din reviste cu factor de impact 1.0 -2.9

1. ANGHEL, L.; ROGACHEV A.; KUKLIN A.; ERHAN, R.V.  $\beta$ -Lactoglobulin associative interactions: a small angle scattering study. In: *European Biophysics Journal*, 2019, 48: 285. <https://doi.org/10.1007/s00249-019-01360-9>. (IF: 1.935).
2. BAHRIN, L. G.; CLIMA, L.; SHOVA, S.; ROSCA, I.; COJOCARU, C.; BEJAN, D.; SARDARU, M. C.; MARANGOCI, N.; LOZAN, V.; ROTARU, A. Synthesis, structure, computational modeling and biological activity of two novel bimesitylene derivatives. In: *Research on Chemical Intermediates*, 2019 45:453-469 (IF: 1.674).
3. BENNISTON, A.C.; MELNIC, S.; SIRBU, D.; WADDELL, P.G. In: *CSD Communication*, 2019. DOI: 10.5517/ccdc.csd.cc21smgy.
4. BRATANOVICI, B.-I.; NICOLESCU, A.; SHOVA, S.; DASCĂLU, I.-A.; ARDELE-ANU, R.; LOZAN, V.; ROMAN, Gh. Design and synthesis of novel ditopic ligands with a pyrazole ring in the central unit. *Research on Chemical Intermediates*, 2019, <https://doi.org/10.1007/s11164-019-04052-3>
5. COROPCEANU, E.; RUDIC, V.; CEPOI, L.; RUDI, L.; LOZAN, V.; CHIRIAC, T.; MISCU, V.; BULHAC, I.; KRAVTSOV, V.; BOUROSH, P. Synthesis and Crystal Structure of  $[Co(DmgH)_2(Thio)_2]_2F[PF_6]$ . The Effect of Fluorine-Containing Co(III) Dioximates on the Physiological Processes of the Microalga *Porphyridium cruentum*. *ISSN 1070-3284, Russian Journal of Coordination Chemistry*, 2019, Vol. 45, No. 3, pp. 200-207. © Pleiades Publishing, Ltd., 2019. Russian Text in *Koordinatsionnaya Khimiya*, 2019, Vol. 45, No. 3, pp. 170-177. (IF 0.674).
6. CURLAT, S.N.; BARBA, A.N.; BOLDESCU, V.V.; PANEKOK, K.; MACAEV, F.Z. Synthesis of aminoalkylated aziridines based on (+) - 3-carene. *Chemistry of Natural Compounds*. 2019, 2, 232-236. (IF: 1.112).
7. DASCALU, I.-A.; SHOVA, S.; DUMITRESCU, D. G.; ROMAN, G.; BRATANOVICI, B.-I.; ARDELEANU, R.; LOZAN, V. Coordination polymers of Cu(II), Co(II) and Cd(II) based on a tetramethyl-substituted terphenyldicarboxylic acid. *Polyhedron*. <https://doi.org/10.1016/j.poly.2019.05.066> (IF: 2.067).
8. DUCA, Gh.; ARICU, A.; KUCHKOVA, K.; SECARA, E.; BARBA, A.; DRAGALIN, I.; UNGUR, N.; SPENGLER, G. Synthesis and anticancer activity of new guanidine –

- containing diterpenoids. *Natural Product Research*, 2019, Vol. **33**, Nr 21, PP. 3052-3056. ISSN: 1478-6427. doi: 10.1080/14786419.2018.1516658. (IF: 1.928).
9. GORINCHOY, V.; CUZAN-MUNTEANU, O.; PETUHOV, O.; MELNIC, E.; KRAVTSOV, V.; SHOVA, S. Thermal analysis, synthesis and structural studies of heterometallic {Fe<sub>2</sub>MO} salicylate complexes. *J Therm Anal Calorim* (2019). <https://doi.org/10.1007/s10973-019-08642-6>. (IF = 2,471).
  10. IACOB, M.; RACLES, C.; DASCALU, M.; TUGUI, C.; LOZAN, V. I.; CAZACU, M. Nanomaterials Developed by Processing Iron Coordination Compounds for Biomedical Application. In: *Journal of Nanomaterials*, 2019, Article ID 2592974, 14 pages (IF: 2.207) <https://doi.org/10.1155/2019/2592974>.
  11. KRAVTSOV, V. CH.; MALAESTEAN, I.; STINGACH, E. P.; DUCA, G. G.; MACAEV, F. Z.; VAN LEUSEN, J.; KOGERLER, P.; HAUSER, J.; KRAMER, K.; DECURTINS, S.; LIU, SHI-XIA; GHOSH, A. C.; GARCIA, Y.; BACA, S. G. Hexanuclear Fe(III) wheels functionalized by amino-acetonitrile derivatives. In: *Solid State Sciences*. 2018, 78, 156-162. ISSN:1293-2558. (IF: 1.811). (n-a fost inclus în raportul din a. 2018).
  12. LOZOVAN, V.; KRAVTSOV, V.CH.; COROPCEANU, E.B.; ROTARU, P.; SIMINEL, A.V.; FONARI, M.S. Binuclear and polymeric Zn(II) and Cd(II) coordination compounds with chromophore N-((pyridin-4-yl)methylene)benzene-1,4-diamine obtained in situ: Preparation, structural and spectroscopic study. In: *Inorganica Chimica Acta*, 2019. 491. P. 42-51. (IF: 2,264).
  13. LUNGU, L.; CIOCARLAN, A.; BARBA, A.; SHOVA, S.; POGREBNOI, S.; MANGALAGIU, I.; MOLDOVEANU, C.; VORNICU N.; D'AMBROSIO, M.; BABAK, M.V.; ARION, V. B.; ARICU, A. Synthesis and evaluation of biological activity of homodrimane sesquiterpenoids bearing hydrazinecarbothioamide or 1,2,4-triazole unit. *Chemistry of Heterocyclic Compounds*, 2019, 55(8), 716-724. doi: 10.1007/s10593-019-02526-1. (IF: 1.492).
  14. LUNGU, L.; CIOCARLAN, A.; SMIGON, C.; OZER, I.; SHOVA, S.; GUTU, I. VORNICU, N.; MANGALAGIU, I.; D'AMBROSIO, M.; ARICU, A. Synthesis, structure, antibacterial and antifungal activities of new homodrimane sesquiterpenoids with oxa- and thiadiazole units. In: CHEMISTRY OF HETEROCYCLIC COMPOUNDS. 2019, (acceptat) (IF. 1.18)
  15. LUPASCU, T.; CIOBANU, M.; BOTAN, V.; SANDU, I. G.; DRAGALIN, I.; MITINA, T. Removal of Ammonium Ions and Ammonia from Groundwater by Oxidation Processes. In: *Rev. Chim. Bucharest*, 2018, Vol. 69, nr. 11, PP. 3082-3086. ISSN: 0034-7752. (IF: 1.41). (n-a fost inclus în raportul pentru a. 2018).
  16. SÎRBU, T.; GIRBU, V.; HARGHEL, P.; RUSU, V.; UNGUR, N.; KULCIŢKI, V. Selectivity Control in Terpene Rearrangements: A Biomimetic Synthesis of the Halimanic Bicyclic Core. In: *Synthesis*, 2019, vol. 51, nr. 9, PP. 1995-2000. DOI: 10.1055/s-0037-1610686.(IF: 2.722).
  17. SÎRBU, T.; GIRBU, V.; HARGHEL, P.; RUSU, V.; UNGUR, N.; KULCIŢKI, V. Selectivity control in terpene rearrangements. A biomimetic synthesis of halimanic bicyclic core. *Synthesis*, 2019, **51**, (9), 1995-2000. DOI: 10.1055/s-0037-1610686. ISSN 1437-210X. (IF 2.722).
  18. STAN, C. S., SOREANU, G., POPA, M., HORLESCU, P., LUPASCU, T., CRETESCU, I. A new approach to obtain aerogels for gas safety applications. In: *Environmental Engineering and Management Journal*, 2019, Vol.18, No. 8, 1815-1820. (IF: 1.021).
  19. URSU, E. L.; ROSCA, I.; BAHIRIN, L. G.; CLIMA, L.; BEJAN, D.; SARDARU, M. C.; MARANGOCI, N.; LOZAN, V.; ROTARU, A. Aqueous dispersion of single-walled carbon nanotubes using tetra-phenyl bimesitylene derivative via non-covalent modification and enhancement of antimicrobial activity. In: *Journal of Nanoscience and Nanotechnology* (www.aspbs.com/jnn). JNN161118 - decision from Journal of Nanoscience and Nanotechnology (IF: 1.354).

20. ZINICOVSCAIA, I., CIOCARLAN, A., LUPASCU, L. et al. Chemical analysis of *Tanacetum corymbosum* (L.) Sch. Bip. using neutron activation analysis. In: *J. Radioanal. Nucl. Chem.*, (2019). <https://doi.org/10.1007/s10967-019-06590-x>. (IF: 1.181).
21. ZINICOVSCAIA, I.; CIOCARLAN, A.; LUPASCU, L.; ARICU, A.; DRAGALIN, I.; CIOCARLAN, N.; YUSHIN, N. Chemical analysis of *Tanacetum corymbosum* L. Sch. Bip. using neutron activation analysis. In: *Journal of Radioanalytical and Nuclear Chemistry*, 2019, (accepted). ISSN: 0236-573. (IF: 1.181).
22. ZINICOVSCAIA, I.; GUNDORINA S.; VERGEL K.; GROZDOV D.; CIOCARLAN A.; ARICU A.; DRAGALIN I.; CIOCARLAN N. Elemental analysis of Lamiaceae medicinal and aromatic plants growing in the Republic of Moldova using neutron activation analysis. *Phytochemistry Letters*, 2020, Vol. **35**, PP. 119–127. ISSN: 1874-3900. DOI: 10.1016/j.phytol.2019.10.009. (IF 1.338).
23. ZINICOVSCAIA, I.; CIOCARLAN, A.; LUPASCU, L.; ARICU, A.; DRAGALIN, I.; CIOCARLAN, N.; YUSHIN, N. Chemical analysis of *Tanacetum corymbosum* (L.) Sch. Bip. using neutron activation analysis. *Journal of Radioanalytical and Nuclear Chemistry*, 2019, Vol. **321**, Nr 2, PP. 349-354. (I.F. 0.093)

- **articol din reviste cu factor de impact 0.1 - 0.99**

1. CIOCARLAN, N.; CIOCARLAN, A.; DRAGALIN, I.; ARICU, A.; ZINICOVSCAIA, I.; GUNDORINA, I. GC–MS and neutron activation (NAA) analysis of medicinal *Teucrium* L. species. *Progress of Cryogenics and Isotop Separation*, 2019, Vol. **22**, Nr. 1, PP. 55-62. (IF. 0.032)
2. GORINCHOY, N.N.; ARSENE, I.; BERSUKER, I.B. Buckybowl structure of sumanenes and analogous compounds induced by the Pseudo Jahn-Teller Effect. *Journal of Physics: Conf. Series*, 2018, 1148, 012005, DOI:10.1088/1742-6596/1148/1/012005, (IF: 0.45).(n-a fost inclus în raportul a. 2018).
3. IVANETS, A.I.; NASTAS, R.I.; KUZNETSOVA, T.F.; AZAROVA, T.A.; POSTOLACHI, L.V.; GINSARI, I.N.; VORONETS, E.A.; RUSU, V.I.; LUPASCU, T.G. Regularities of Modification of Active Carbons by Oxygen-Containing Manganese Compounds. *Protection of Metals and Physical Chemistry of Surfaces*. 2018, **54** (4), 587–593. ISSN 2070-2051, DOI: 10.1134/S2070205118040056 (IF: 0,71).
4. LUPASCU, T.; CIOBANU, M.; BOTAN, V.; SANDU, I. G.; DRAGALIN, I.; MITINA, T. Removal of ammonium ions and ammonia from groundwater by oxidation processes. *Rev. Chim. (Bucharest)*, 2018, Vol. **69**, Nr 11, PP. 3082-3086. ISSN: 0034-7752 (IF: 0.09)
5. LUPAȘCU, G.; CIOCARLAN, A.; DRAGALIN, I.; LUPAȘCU L. Antimicrobial activity of the Coriander oil (*Coriandrum sativum* L.). *Romanian Journal of Biology*, 2019, Vol. **64**, Nr. 1-2, PP. 31-42. (IF. 0.983)
6. PETUHOV, O.; LUPASCU, T.; BEHUNOVÁ, D.; POVAR, I.; TATIANA MITINA, MARIA RUSU. Microbiological Properties of Microwave-Activated Carbons Impregnated with Enoxil and Nanoparticles of Ag and Se. *C — Journal of Carbon Research*, 2019, **5**(31); <https://doi.org/10.3390/c5020031>.
7. POVAR, I.; UBALDINI, S.; SPINU, O.; LUPASCU, T. Thermodynamic analysis of the copper (I) homogeneous and heterogeneous speciation in ammonium thiosulfate leaching systems. *Canadian Journal of Chemistry*. 2019. ISSN 0008-4042 (print) <https://doi.org/10.1139/cjc-2018-0446> (IF 0.973).
8. POVAR, I.; UBALDINI, S.; SPINU, O.; LUPASCU, T. Thermodynamic analysis of the copper (I) homogeneous and heterogeneous speciation in ammonium thiosulfate leaching systems. *Canadian Journal of Chemistry*, 2019. ISSN 0008-4042 (print) <https://doi.org/10.1139/cjc-2018-0446> (IF 0.973)
9. YUSHIN, N., ZINICOVSCAIA, I., CEPOI, L., CHIRIAC, T., MITINA, T. Study of chemistry of Cr(IV)/Cr(III) biosorption from batch solutions and electroplating industrial

- effluent using cyanobacteria *Spirulina platensis*. In: *Rev. Roum. Chim.*, 2018, 64 (2), 173-181. (IF=0,193).
10. a) ВИТИУ, А.А.; КОРОПЧАНУ, Э.Б.; БОУРОШ, П.Н. Синтез и кристаллическая структура новых комплексов Cu(II) и Co(II) с 2-бензоилпиридином. *Коорд. Химия*. 2019, **45**(11), 700-704. ISSN (PRINT) 0132-344X (IF:0,674).  
b) VITIU, A.A.; COROPCEANU, E.B.; BOUROSH, P.N. New Cu(II) and Co(II) Complexes with 2-Benzoylpyridine: Syntheses and Crystal Structures. *Russian Journal of Coordination Chemistry*. 2019, **45**(11), 804–808. ISSN (PRINT) 1070-3284 (IF:0,674).
  11. a) ВИТИУ, А.А.; КОРОПЧАНУ, Э.Б.; БОУРОШ, П.Н. Новые координационные полимеры Zn(II) и Cd(II) с 1,2-бензолдикарбоновой кислотой: синтез и строение. В: *Коорд. Химия*, 2019. Т. 45. № 2, с. 67–78. (IF=0,674)  
b) VITIU, A.A.; COROPCEANU, E.B.; BOUROSH, P.N. New Zn(II) and Cd(II) Coordination Polymers with 1,2-Benzenedicarboxylic Acid: Synthesis and Structures. In: *Russian Journal of Coordination Chemistry*, 2019, Vol. 45, No. 2, pp. 81–91. (IF=0,674).
  12. a) КОРОПЧАНУ, Э.; РУДИК, В.; ЧЕПОЙ, Л.; РУДЬ, Л.; ЛОЗАН, В.; КИРИЯК, Т.; МИСКУ, В.; БУЛХАК, И.; КРАВЦОВ, В.; БОУРОШ, П. Синтез и структура  $[\text{Co}(\text{DmgH})_2(\text{Thio})_2]_2\text{F}[\text{PF}_6]$ . Влияние фторсодержащих диоксиматов Co(III) на физиологические процессы микроводоросли *Porphyridium cruentum*. В: *Коорд. Химия*, 2019. Т. 45. № 3. С. 170–177. (IF=0,674).  
b) COROPCEANU, E.; RUDIC, V.; CEPOI, L.; RUDI, L.; LOZAN, V.; CHIRIAC, T.; MISCU, V.; BULHAC, I.; KRAVTSOV, V.; BOUROSH, P. Synthesis and Crystal Structure of  $[\text{Co}(\text{DmgH})_2(\text{Thio})_2]_2\text{F}[\text{PF}_6]$ . The Effect of alga *Porphyridium cruentum*. In: *Russian Journal of Coordination Chemistry*, 2019, Vol. 45, No. 3, pp. 206–213. (IF=0,674).
  13. a) ЛОЗОВАН, В.; КОРОПЧАНУ, Э.Б.; БОУРОШ, П.Н.; МИКУ, А.; ФОНАРЬ, М.С. Синтез, кристаллическая структура и люминесцентные свойства координационных полимеров Zn и Cd на основе двух изомерных азиновых лигандов. В: *Коорд. Химия*, 2019. Т. 45. № 1. С. 13–23.  
b) LOZOVAN, V.; COROPCEANU, E.; BOUROSH, P.; MICU, A.; FONARI, M. Coordination polymers of Zn and Cd based on two izomeric azinic ligands: synthesis, crystal structures and luminescent properties. In: *Russian Journal of Coordination Chemistry*, 2019, Vol. 45, No. 1, pp. 11–21. (IF=0,674).
  14. a) ЛОЗОВАН, В.; КОРОПЧАНУ, Э.Б.; БОУРОШ, П.Н.; МИКУ, А.; ФОНАРЬ, М.С. Синтез, кристаллическая структура и люминесцентные свойства координационных полимеров Zn и Cd на основе двух изомерных азиновых лигандов. *Коорд. Химия*, 2019, **45**(1), 13–23. ISSN (PRINT) 0132-344X (IF:0,674).  
b) LOZOVAN, V.; COROPCEANU, E.; BOUROSH, P.; MICU, A.; FONARI, M. Coordination polymers of Zn and Cd based on two izomeric azinic ligands: synthesis, crystal structures and luminescent properties. *Russian Journal of Coordination Chemistry*, 2019, **45**(1), 11–21. ISSN (PRINT) 1070-3284 (IF:0,674).
  15. a) УРЕКЕ, Д.; БУЛХАК, И.; РИЖА, А.; КОРОПЧАНУ, Э.; БОУРОШ, П. Синтез и структура соли дианилинглиоксима и его биядерных комплексов Zn(II) и Mn(II) с 1,3-бензолдикарбоновой кислотой. *Координационная химия*. 2019, **45**(12), 720-733. ISSN (PRINT) 0132-344X (IF:0,674).  
b) URECHE, D.; BULHAC, I.; RIJA, A.; COROPCEANU E.; BOUROSH, P. Dianineglyoxime Salt and Its Binuclear Zn(II) and Mn(II) Complexes with 1,3-Benzenedicarboxylic Acid: Synthesis and Structures. *Russ. J. Coord. Chem.* 2019, **45**(12), 843-855. ISSN (PRINT) 1070-3284 (IF:0,674).

- *articole în alte reviste editate în străinătate*

1. CIOCARLAN, N.; CIOCARLAN, A.; DRAGALIN, I.; ARICU, A.; ZINICOVSCAIA, I.; GUNDORINA, I. GC–MS and neutron activation (NAA) analysis of medicinal *Teucrium L.* species. In: *Progress of Cryogenics and Isotop Separation*, 2019, vol. 22, Nr. 1, PP. 55-62.

2. LUPAȘCU, G.; CIOCĂRLAN, A.; DRAGALIN, I.; LUPAȘCU, L. Antimicrobial activity of the volatil coriander oil (*Coriandrum sativum l.*). Rom. J. Biol. – Plant Biol., 2019, **64**, nos. 1–2, p. 31–42, Bucharest, România.
3. PETUHOV, O.; LUPASCU, T.; BEHUNOVÁ, D.; POVAR, I.; MITINA, T.; RUSU, M. Microbiological Properties of Microwave-Activated Carbons Impregnated with Enoxil and Nanoparticles of Ag and Se. In: *Journal of Carbon Research*, Special Issue "Biomedical Applications of Carbon Materials". 2019, 5(2), 31; <https://doi.org/10.3390/c5020031>.
4. POVAR, I.; SPINU, O.; ZINICOVSCAIA, I.; PINTILIE, B.; UBALDINI, S. Revised Pourbaix diagrams for the vanadium – water system. *Journal of Electrochemical Science and Engineering*. 2019, **9** (2), 75-84. ISSN 1847-9286. <http://dx.doi.org/10.5599/jese.620>.
5. POVAR, I.; ZINICOVSCAIA, I.; SPINU, O.; PINTILIE, B. Thermodynamic Stability Areas of Polyvanadates of Alkaline Earth Metals. In: *Journal of Chemistry*. 2019, Article ID 7091781, 6 pages. ISSN: 2090-9071 (Online). <https://doi.org/10.1155/2019/7091781>.
6. RUPSKA, T.V.; GOLOVAN, A. P.; ANDRIYKO, L. S.; LUPASCU, T.; OSTROVSKA, G.V.; TUROV, V. V. Composite systems for medical applications based on methyl methylsilica and biologically active substances. In: *New Materials, Compounds and Applications*. Vol. 2, No.3, 2018, pp. 231-242.
7. SUCMAN, N., POGREBNOI, V., BOLDESCU, V., MACAEV, F. Diastereoselective synthesis of 3,4-dibenzoil-3,4-dihydro-1*H*-spiro[benzo[cd]indol-5,3'-indoline]-2,2'(2*ah*)-diones. *UAZIMDER* 2019, **1**, 20-23. ISSN: 2667-7571.
8. SPATARU, P.; FERNANDEZ, F.; POVAR, I.; SPATARU, T. Behaviour of Nitrogen Soluble Forms in Natural Water in the Presence of Anionic and Cationic Surfactants and Mineral Substrates. *Advances in Sciences and Engineering*. 2019, **11** (2), 70-77. ISSN: 2046-0392. <https://doi.org/10.32732/ase>
9. ГОЛОВАНЬ, А.П.; ЛУПАШКУ, Т.Г.; КРУПСКАЯ, Т.В.; ЛУПАШКУ, Г.А; ТУРОВ, В.В. Влияние композитов на основе танинов и гидрофобного кремнезема на всхожесть и морфологические параметры овощных культур. *Хімія, фізика та технологія поверхні*. 2019, **10**(3), с. 272-280.
10. КОВАЛЕВ, В., КОВАЛЕВА, О., УНГУРЯНУ, Д. Изучение условий получения высококалорийного биогаза при повышенном давлении. *Bulletin of Vologda State University*. Science Journal, Vologda, RF, 2019, **3**(5), pp. 46-52. ISSN 2658-3399.
11. КУРЛАТ, С.Н. Синтез, цитотоксичность, антиоксидантная и анти-вич активность новых бензо- и имидазолиевых солей на основе (+)-3-карена. *Известия уфимского научного центра РАН*, 2019, **4**, 60–63. ISSN: 2222-8349. doi:10.31040/2222-8349-2019-0-4-60-63.

**- articole din reviste naționale**

**- Categoria A**

1. ARICU, A.; NASTAS, R.; COCU, M. The institute of chemistry at 60 years anniversary. brief history, achievements and perspectives. *Chemistry Journal of Moldova*. 2019, Vol. 14, nr. 1, PP. 8-31. ISSN 1857-1727.
2. ARSENE, I.; GORINCHOY, N. DFT study of the entire reaction cycle of H<sub>2</sub>O<sub>2</sub> decomposition and O<sub>2</sub> generation catalyzed by Fenton reagent. In: *Chemistry Journal of Moldova*, 2019, 14(1), 10 pp. <http://dx.doi.org/10.19261/cjm.2018.543>.
3. BLAJA S. Synthesis of new di- and tri-norlabdane compounds with 2-amino-1,3-thiazole units. *Chemistry Journal of Moldova*, 2019, Vol. **14**, Nr 2, p. 72-79. ISSN 1857-1727. DOI: 10.19261/cjm.2019.609.
4. VITIU, A.; Novel iron(II) and copper(II) polymeric coordination compounds with N,N'-bipyridine-type ligands: synthesis and characterization. *Chemistry journal of moldova. General, Industrial and Ecological Chemistry*. 2019, **14**(1), 120-127. DOI: [10.19261/cjm.2019.569](http://dx.doi.org/10.19261/cjm.2019.569).

### **- Categoria B**

1. BULIMAGA, V.; RUDIC, V.; ZOSIM L.; LOZAN V.; GORINCIOI, V.; BULIMAGA, M-B; MACARI, M. Studiu comparativ asupra acumulării stronțului, cuprului și fierului la cultivarea cianobacteriei *spirulina platensis* în prezența unor heterocompuși coordinați. *Studia Universitatis Moldaviae*, 2019, nr.1(121), Seria “Științe reale ale naturii” ISSN 1814-3237 ISSN online 1857-498X, p.42-47.
2. CIOCARLAN, A.; ARICU, A.; GEANĂ, E.-I. Investigating the therapeutic potential of some medicinal plant and wild fruits based on terpenic ursolic and oleanolic acids. *Cient Periodique Nutrition*. 2019, Vol. 3, Nr 5, PP. 1-12.
3. GÎRBU, V. Funcționalizarea radicalică a legăturilor C-H în compușii naturali. *Studia Universitatis Moldaviae, Seria științe reale și ale naturii*. 2018, 6 (116), PP. 77-88. ISSN 1814-3237.
4. COVACI, Olga.  $\alpha$ -Benzildioximați ai fierului(II) cu liganzi heterociclici ce conțin azot. In: *Studia Universitatis Moldaviae. Seria “Științe reale și ale naturii”*, 2018, nr. 1 (111), p. 156-161. ISSN 1811 3237, online 1837 198X.
5. GÎRBU, V. Funcționalizarea Radicalică a Legăturilor C-H în Compușii Naturali. In: *Studia Universitatis Moldaviae, Seria Științe reale și ale naturii*, 2018, nr. 6 (116), pp. 77-88. ISSN 1814-3237. (n-a fost inclus în raportul pentru a. 2018).
6. LUPAȘCU, L.; TÎMBALIUC, N.; LUPAȘCU, G.; GAVZER, S.; SLĂNINĂ, V. Activitățile antioxidante și antimicrobiene ale extractelor intacte și oxidate, izolate din ceai verde comercial. *Buletinul Academiei de Științe a Moldovei. Științele vieții*, 2019, nr. 2 (338) p. 144-151.
7. NASTAȘ, R.; GOREACIOC, T.; GÎNSARI, I.; CEBOTARI, I.; LUPAȘCU, T.; SANDU, M.; TĂRÎȚĂ, A.; MITINA, T. Testarea cărbunilor activi autohtoni pentru eliminarea ionilor de nitrit din apă. *Buletinul A.Ș.M. Științele vieții*, 2019, Chișinău, Republica Moldova, nr. 2 (338), p. 171-179. ISSN 1857-064X.
8. КОВАЛЕВ, В., КОВАЛЕВА, О., НЕННО, В. Разработка процессов очистки и кондиционирования биогаза. *Studia Universitatis Moldaviae. Ser. Șt. reale și ale naturii*. 2019, 1(121), 141-148. ISSN 1814 3237.
9. КОВАЛЕВ, В., КОВАЛЕВА, О., НЕННО, В. Повышение энергетических характеристик биогаза: Часть 1. Технологические факторы, влияющие на процесс метаногенеза. *Intellectus*. 2019, Nr.1-2, 143-151. ISSN 1857-0496.

### **- Categoria C**

1. MAFTULEAC, A.; SPATARU, P.; BOLOTIN, O. Spectroscopia infraroșie și analiza Roentgen în studierea cernoziomului din Republica Moldova. *Buletinul Institutului de Geologie și Seismologie al AȘM*. 2017, 2, 82-87. ISSN: 1857-0046.
2. SPATARU, P.; VOLONTIR, N.; SPINU, O. Problema deșeurilor și gunoiului abordată cu elevii în procesul educațional. *Didactica Pro*. 2019, 4-5, 91-95. <https://doi.org/10.5281/zenodo.3525247>

### **- articole din alte reviste naționale**

1. BULHAC, I., DANILESCU, O. Compuși coordinați ai unor metale tranziționale 3d cu baze Schiff heterociclice. Sinteză, structură, proprietăți. *Învățământ superior: tradiții, valori, perspective” conferința științifică națională cu participare internațională*. 27-28 septembrie 2019, Chișinău, vol. I, pp. 12-17. ISBN 978-9975-76-284-7.
2. POVAR, I.; SPATARU, T.; SPATARU, P.; SPINU, O. O soluție ecologică și economică pentru sedimentele organice provenite din apele uzate. *Managementul Deșeurilor*. Anul VI, 2019, 3 (23), 36-39. ISSN 2345-105-x
3. SPATARU, P.; POVAR, I.; MAFTULEAC, A. Un semnal de alarma privind starea dezastruoasă a râurilor mici din Republica Moldova. In: *Economics, Social and Engineering Sciences - EcoSoEn*. 2018, 1 (2), 279-285. ISSN 2587-344X.

- **articole în culegeri (naționale / internaționale):**

1. CIOBANU N. Sinteza monastrolului cu utilizarea lichidelor ionice (reactivi organici). *Conferinta stiintifica a doctoranzilor al USM "Dimitrie Cantemir"*, ed. VIII. 25-28 May. 2019, **1**, 38-44.
2. POVAR, I.; SPINU, O. Methods of extracting of the valuable metals from industrial wastewater. *Lucrările Conferinței științifice internaționale „Perspectivele și problemele integrării în Spațiul European al Cercetării și Educației”*, 7 iunie, 2018, Cahul, Republica Moldova, 308-312. ISBN 978-9975-88-040-4. (in Russian)
3. POVAR, I.; SPINU, O.; PINTILIE, B. Thermodynamic analysis of the degree of precipitation of poorly soluble hydroxides and salts in industrial waste water. In: *International Scientific Environmental Conference „Waste, the reasons of their education and prospects for use”*, March 26-27, 2019, Krasnodar, Russia, 230-233. ISBN 978-5-00097-843-6.
4. POVAR, I.; UBALDINI, S.; LUPASCU, T.; SPINU O.; PINTILIE, B. The solution chemistry of the Copper (II) - Ammonia - Thiosulfate aqueous system. *Proceedings Book of the 21<sup>ST</sup> International Symposium “The Environment and Industry”*, 20-21 September 2018, Bucharest, Romania, 162-169. <http://doi.org/10.21698/simi.2018.fp20>
5. SÎRBU, T.; TIMUȘ, I.; GORINCIOI, V.; MASLOBOROD, S. Efectul nanoparticulelor Fe<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>ZnO<sub>4</sub> și Fe<sub>2</sub>CuO<sub>4</sub> asupra activității Biosintetice a Micromicetelor. В: *Международная научная конференция “Защита Растений в Традиционном и Экологическом Земледелии*. Кишинев, Республика Молдова, 10-12 декабря 2018, с.371-374. (n-a fost inclus în raportul a. 2018).
6. SUCMAN, N.; POGREBNOI, V.; BOLDESCU, V.; MACAEV, F. Synthesis and Separation of the Spiro[oxindole-cyclopropane] Diastereomers with Anti-HIV-1 or Anti-HIV-2 activity. In: *2nd Articles of the 2<sup>nd</sup> International congress on engineering and life science*. Turkey, Kastamonu, 11-14 Apr. 2019. Accepted to publishing. ISBN: 978-605-4697-20-5.
7. ȚÎMBALIUC, N., CIBOTARU, S., LUPAȘCU, T. Cercetări privind utilizarea adsorbanților carbonici autohtoni pentru imobilizarea metaboliților. Conferința științifică internațională „Perspectivele și problemele integrării în Spațiul European al Cercetării și Educației”, 6 iunie 2019, Cahul, R. Moldova, vol. VI, Partea 1, p. 337-341. ISSN 2587-3563.
8. KANAROVSKII, E.Y., YALTYCHENKO, O.V., GORINCHOY, N.N. Theoretical Model of Lipid Peroxidation Kinetics for Complexes of Cytochrome *c* and Cardiolipin with Participation of Antioxidants. In: Tiginyanu I., Sontea V., Railean S. (eds), *Proceedings of the 4<sup>th</sup> International Conference on Nanotechnologies and Biomedical Engineering (ICNBME-2019)*, vol 77. Springer, Cham, September 18-21, 2019, pp. 561–565. DOI: [https://doi.org/10.1007/978-3-030-31866-6\\_100](https://doi.org/10.1007/978-3-030-31866-6_100)
9. VITIU, A., CHIȘCA, D., GORINCIOI, E., COROPCEANU, E., BOUROSH, P. Synthesis and Biological Properties of the Novel Coordination Compound with Rhodanine-3-Acetic Acid. *Proceedings of the 4th International Conference on Nanotechnologies and Biomedical engineering (ICNMBE-2019)*, September 18-21, 2019, Chisinau, Moldova, vol. **77**, pag. 713-718.
10. КОВАЛЕВ, В., КОВАЛЕВА, О., НЕННО, В. Комбинированный энергоэффективный процесс получения биогаза. В: *Hydropower Impact on River Ecosystem Functioning. Proc. Intl. Conf. Eco-TIRAS*, Tiraspol, Moldova, Oct 2019, pp. 156-159. ISBN 978-9975-56-690-2.
11. КОВАЛЕВА, О., КОВАЛЕВ, В., НЕННО, В. Новые биохимические процессы для улучшения состояния природных водных экосистем. *Hydropower Impact on River Ecosystem Functioning. Proc. Intl. Conf. Eco-TIRAS*, Tiraspol, Moldova, Oct 2019, pp. 160-164. ISBN 978-9975-56-690-2.
12. ЛУПАШКУ, Г., ЧЕКЫРЛАН, А.; ДРАГАЛИН, И.; ЛУПАШКУ, Л. Влияние эфирных масел кориандра (*Coriandrum sativum* L.) на фитопатогенные микроорганизмы в чистой культуре. *Лекарственное растениеводство: от опыта прошлого к современным*

- технологиям. Материалы седьмой Международной научно-практической конференции, мая 2019, Ucraina, Poltava, с. 151-153, 30-31
13. МИХНЯ, Н. И., ЛУПАШКУ, Г. А., ЛУПАШКУ, Т. Г., КРУПСКАЯ, Т.В., ТУРОВ, В.В. Влияние композитов на основе танинов и кремнезема на ряд сельскохозяйственно-ценных признаков томата. В: *Материалы V Международной научно-практической конференции, посвященной 45-летию создания Опытной станции «Маяк» Института овощеводства и бахчеводства НААН (в рамках IV научного форума «Неделя науки в Крутах – 2019»*, 12-13 марта 2019 г., с. Круты, Черниговская обл. Украина), с. 279-290.
  14. СУКМАН, Н.С.; АНДРУСЕНКО, Т.В. МАКАЕВ Ф.З. Изучение взаимодействия 2-гидрокси-юглона с различными альдегидами в присутствии эфира Ганча. Сборник материалов Международной научно-практической конференции «Наука, образование, культура» посвященной 28-ой годовщине Комратского государственного университета. 2019, т. 1, 135-138. ISBN 978-9975-3246-7-0.
  15. СЫРБУ Т.; ТИМУШ И.; ГОРИНЧОЙ В.; ПУШКАШУ Б.; МАСЛОБРОД С. Изменение антифунгальной активности микромицетов в присутствии наночастиц. *Аграрная Наука*. УДК 632.4:582.228, ISSN 0869-8155, 2019,(2), с. 110-114. doi.org/10.32634/0869-8155-2019-326-2-110-114.
  16. СЫРБУ Т.Ф.; ТИМУШ И.Н.; ГОРИНЧОЙ В.В.; МОЛДОВАН С.Е.; ЦУРКАН О.П. Рост микромицетов в присутствии наночастиц. *XV Міжнародної науково-практичної конференції*, 2019, 25-29 червня, Київ, р.50-52.
  17. TIMUȘ I.; GORINCIOI, V.; MOLDOVAN, C.; TURCAN, O. Efectul nanoparticulelor de Fe<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>ZnO<sub>4</sub> și Fe<sub>2</sub>CuO<sub>4</sub> asupra creșterii micromicetelor din genul *Aspergillus*, *Penicillium* și *Trichoderma*. *Tendențe Contemporane ale dezvoltării științei: viziuni ale tinerilor cercetători. Materiale Conferinței științifice a doctoranzilor*. Ediția a VIII-a, Volumul 1, 2019, 10 iunie, Chișinău, p. 156-161.