

A N E X A 4 . 1

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L I S T A**lucrărilor științifice în domeniul disciplinelor din postul didactic****A. Teza de doctorat**

1. Doctorat (PhD) în Biologie (Microbiologie - *Cum Laude*), **2004 – 2008**, Universitatea Babeș-Bolyai, Facultatea de Biologie și Geologie, Cluj-Napoca, Romania. Titlul tezei: *Cercetări fiziologice și moleculare asupra bacteriilor fixatoare de azot, libere, aerobe = Physiological and molecular research on the free, aerobic nitrogen fixing bacteria*. Coordonator științific: prof. univ. dr. Mihai Drăgan-Bularda.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

B1. *Cărți în editurile universităților din consorțiu sau în alte edituri din țară:*

1. Farkas, A., **Carpa R.**, Butiuc-Keul, A., **2022**, *Biotehnologii Generale, Ghid de Lucrări Practice*, Ed. Presa Univ. Clujeana, ISBN: 978-606-37-1596-9, e-book.
2. **Carpa R.**, **2020**, *Biotehnologii în Industria Cosmetică, Lucrări Practice*, Ed. Presa Univ. Clujeană, 182 pp.
3. **Carpa R.**, Dragan-Bularda M., Muntean V., **2014**, *Microbiologie Generală, Lucrări Practice*, Ed. Presa Universitară Clujeana, Cluj-Napoca, 217.

B2. *Capitole în cărți, în edituri internaționale:*

1. Dobrota CT, Butiuc-Keul A, **Carpa R**, **2020**, Adaptive Strategies of *Betula* Species to Environmental Stress, In: Bertelsen C.T., Ed, *Betula Ecology and Uses*, Nova Science Publishers, New York, pp. 37-64.
2. Dejeu, C., **Carpa, R.**, **2020**, Ecological Impact of Hydropower Building Yards in Romania, In: Ed. Milanović Pešić, A., Jakovljević, D., *Water Resources Management: Methods, Applications and Challenges*, Nova Science Publishers, New York, pp. 153-194.

B3. *Capitole în cărți, în edituri naționale:*

3. **Carpa, R.**, **2021**, Microbiologia la Facultatea de Biologie și Geologie, Universitatea Babeș-Bolyai din Cluj-Napoca, în: *Științele biologice din România*, Coordonatori: Simionescu M., Popescu O., Ed. Academiei Române, pp. 311-317.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani**C1. Articole publicate în reviste cotate ISI, ca autor principal:**

1. Oravetz, K.; Diaconeasa, Z.; **Carpa, R.**; Rakosy-Tican, E.; Cruceriu, D. **2024**, The Antioxidant, Antimicrobial, and Antitumor Properties of Flavonol-Rich Extracts from *Allium ursinum* (Wild Garlic) Leaves: A Comparison of Conventional Maceration and Ultrasound-Assisted Extraction Techniques. *Int. J. Mol. Sci.* 2024, 25, 12799. <https://doi.org/10.3390/ijms252312799>
2. Andreica, A.M., Balea, A., Pojar-Feneșan, M., **Carpa, R.**, **2024**, GC-MS comparative chemical composition of essential oils and volatile compounds of *Eryngium planum* L. using classical hydrodistillation, ultrasound-assisted hydrodistillation and headspace solid-phase microextraction. Antimicrobial activity, *Studia UBB Chemia*, LXIX, 1, 147-161 DOI:10.24193/subbchem.2024.1.09
3. Crintea, A., **Carpa R.**, Mitre, A.O., Pethő, R.I., Chelaru, V.F., Nădășan, S.M., Neamti, L., Dutu, A.G., **2023**, Nanotechnology involved in treating urinary tract infections: An overview, *Nanomaterials*, 13(3), 555; <https://doi.org/10.3390/nano13030555>
4. Balea A., Ciotlaus, I., Pojar-Fenesan, M., **Carpa, R.**, **2023**, Comparative chemical and antimicrobial characterization of non-ozonated and ozonated vegetable oils. *Studia UBB Chemia*, LXVIII, 1, 285-301. DOI:10.24193/subbchem.2023.1.21
5. **Carpa, R.**, Farkas, A.C., Dobrota, C., Butiuc-Keul, A.L., **2023**, Double network chitosan-based hydrogels with improved mechanical, conductive, antimicrobial and antibiofouling properties, *Gels*, 9(4), 278; <https://doi.org/10.3390/gels9040278>
6. Barbu, I.A., Ciorîță, A., **Carpa, R.**, Mot, A.C., Butiuc-Keul, A., Marcel Pârvu, M., **2023**, Phytochemical Characterization and Antimicrobial Activity of Several *Allium* Extracts, *Molecules*, 28 (10), 3980. <https://doi.org/10.3390/molecules28103980>
7. **Carpa, R.**, Remizovschi, A.; Culda, A-C; Butiuc-Keul A-L., **2022**, Inherent and composite hydrogels as promising materials to limit the antimicrobial resistance. *Gels*, 8, 70. <https://doi.org/10.3390/gels8020070>
8. Prodan D., Filip M., Vlassa, M., Moldovan, M., **Carpa, R.**, **2022**, Chromatographic profile of major whey proteins in some dairy beverages based on Milk Serum, *Turkish Journal of Chemistry*, 46: 6, Article 20. <https://doi.org/10.55730/1300-0527.3497>
9. Remizovschi A., **Carpa R.**, **2021**, Biologically-oriented mud volcano database: muddy_db, *PeerJ* 9:e12463 <https://doi.org/10.7717/peerj.12463>.
10. Paskucz S., **Carpa R.**, Culda C.A., Butiuc-Keul A.L., Dobrota C., Berchez O., Rusu T., **2021**, Biochemical composition of blackcurrant fruits in a plantation from Jibou area, *AgroLife Scientific Journal*, 10, 1, 179-185. ISSN 2285-5718; ISSN CD-ROM 2285-5726; ISSN ONLINE 2286-0126; ISSN-L 2285-5718
11. Bacali, C., **Carpa, R.**; Buduru, S.; Moldovan, M.L.; Baldea, I.; Constantin, A.; Moldovan, M.; Prodan, D.; Dascalu, L.M.; Lucaciu, O.; Catoi, F.; Constantiniuc, M.; Badea, M., **2021**, Association of Graphene Silver Polymethyl Methacrylate (PMMA) with Photodynamic Therapy for Inactivation of Halitosis Responsible Bacteria in Denture Wearers. *Nanomaterials*, 11, 1643. <https://doi.org/10.3390/nano11071643>
12. Dejeu C., **Carpa R.**, Remizovschi A., Bond, J., **2021**, The widespread alteration of rivers in the Romanian Carpathians and the undisturbed Râul Alb, *River Research and Applications*, <https://doi.org/10.1002/rra.3770>
13. Remizovschi, A., **Carpa R.**, Forray F.L., Chiriac, C., Roba, C.A., Beldean-Galea, S., Andrei, A.S., Szekeres, E., Baricz, A., Lupan, I., Knut, R., Coman, C., **2020**, Mud volcano and the presence of PAHs, *Scientific Reports*, 10:1253.

14. Bercean (Vitan), D.E., **Carpa R.**, Prodan, D., Moldovan, M., Borzan, C., **2020**, Preliminary study on scanning electron microscopy as an additional mean to assess the effectiveness of sterilization of endoscopes used in digestive tract examination, *Revista de Chimie*, 71, 2, 280-287.
15. Ungurean C., **Carpa R.**, Câmpean R., Maior M.C., Olah N.K., **2020**, Phytochemical and microbial analyses of *Berberis sp.* extracts, *Romanian Biotechnological Letters*, 25, 6, 2132-2139, DOI: 10.26327/RBL2018.232.
16. Popa, D., **Carpa R.**, Moldovan, M., Prodan, D., Varvara, S., Golumbeanu, M.; Popa, M., **2019**, Culturable bacterial communities from the spoiled walls of the heritage buildings, *Journal of Environmental Protection and Ecology*, 20 (2): 773-780.
17. Paskucz, S., **Carpa R.**, Culda, C.A., Rusu, T., **2019**, Physico-chemical parameters and enzymatic activities on tilled soils from Jibou area, Romania, *Scientific Papers-Series A-Agronomy*: 62 (1), 111-117.
18. Paskucz S., **Carpa R.**, Remizovschi, A., Rusu T., **2018**, Research on sulphur-bacteria and physical-chemical parameters from sulphurous waters of Jibou area, *Scientific Papers. Series E. Land and Reclamation, Earth Observation&Surveying, Environmental Engineering*, VII, 240-246.
19. Lupan I., **Carpa R.**, Oltean A.P., Kelemen B.S., Popescu O., **2017**, Release of Antibiotic Resistant Bacteria by a Waste Treatment Plant from Romania, *Microbes and Environments*, 32(3), 219-225. doi:10.1264/jsme2.ME17016.
20. **Carpa R.**, Maior M.C., Dejeu C., **2017**, Romanian ecosystems need EU protection, *Science*, 358(6365):880-881. (*Letter*) DOI: 10.1126/science.aar2216
21. Orban M.G., Plugaru S., Rusu T., **Carpa R.**, **2017**, Researches and studies regarding the microbial indicators of water pollution of Castailor Creek, Bistrita, *Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering*, VI, 39-44. DOI: 10.17930.
22. **Carpa R.**, Keul, A., Muntean, V., Dobrotă, C., **2014**, Characterization of halophilic bacterial communities in Turda Salt Mine (Romania), *Origins of Life and Evolution of Biosphere*, 44, 3, 223-230.

C2. Articole publicate în reviste cotate ISI, ca și coautor:

23. Andreica A.M., Vlassa, M.C., **Carpa, R.**, Petean, I., **2025**, Green synthesis of silver nanoparticles using *Galium verum* L. aqueous extract and evaluation of its antimicrobial activity, *Studia UBB Chemia*, LXX, 1, 87-100, DOI:10.24193/subbchem.2025.1.06
24. Safta D.A., Vlase, A.M., Pop A., Cherfan, J., **Carpa, R.**, Iurian, S., Bogdan, C., Vlase, L., Moldovan, M.L., **2025**, Optimized *Sambucus nigra* L., *Epilobium hirsutum* L., and *Lythrum salicaria* L. Extracts: Biological Effects Supporting Their Potential in Wound Care, *Antioxidants*, 14 (5), 521. <https://doi.org/10.3390/antiox14050521>
25. Muntean, A., Sarosi C., Petean, I., Cuc, S., **Carpa, R.**, Chis, I.A., Ilea, A., Delean, A.G., Moldova, M., **2024**, Developing bioactive hydrogels with peptides for dental application, *Biomedicines* 2024, 12, 694. <https://doi.org/10.3390/biomedicines12030694>
26. Mohajon, D.R., Prodan D., Moldovan, M., Petean, I., Cuc, S., Filip, M., **Carpa, R.**, Gheorghe, G.F., Saroși, C.L., **2024**, Formulation and characterization of new experimental dental composites with zirconium filling in different forms, *Materials*, 17, 2711, <https://doi.org/10.3390/ma17112711>

27. Dobrota, C., Marian, A., **Carpa, R.**, Rosoiu, C.L., Forray, F.L., **2024**, Cavity ring down spectroscopy as a tool for monochromatic light action on tomato plants in bio-regenerative life support systems, Academy of Romanian Scientists, Annals Series on Biological Sciences, 13,1, 53-65, ISSN: 2285-4177. DOI 10.56082/annalsarscibio.2024.1.53
28. Dobrota, C.T., Florea, A.D., **Carpa, R.**, Soritau, O., Tomoaia, G., Ossi Horovitz, Mocanu, A., Rosoiu, C.L., Tomoaia-Cotisel, M., **2024**, Antimicrobial effect of toothpastes containing birch extract and nano-hydroxyapatites, Academy of Romanian Scientists, Annals Series on Biological Sciences, 13,1, 66-80, ISSN: 2285-4177. DOI 10.56082/annalsarscibio.2024.1.66
29. Prodan D., Moldovan, M., Cuc, S., Sarosi C.L., I Petean, I., Filip, M., **Carpa, R.**, Doukeh, R., Mirica, I.C., **2024**, Advanced Dentistry Biomaterials Graphene Oxide. Polymers, 16 (12), 1743. <https://doi.org/10.3390/polym16121743>
30. Polianciuc, S.I., Ciorîță, A., Soran, M.L., Lung, I., Kiss B., Ștefan, M.G., Leucuța, D.C., Gurzău, A.E., **Carpa, R.**, Colobatiu, L.M., Loghin, F., **2024**, Antibiotic Residues and Resistance in three Wastewater Treatment Plants from Romania, Antibiotics, 13, 8, 780. <https://doi.org/10.3390/antibiotics13080780>
31. Kirgiz M.S., Mirza, J., Cuc S., Prodan D., Sarosi C., Perhaita, I., **Carpa R.**, Moldovan, M., Popa D., Varvara S., Popa, M., **2023**, Physico-antibacterial feature and SEM morphology of bio-hydraulic lime mortars incorporating nano graphene oxide and binary combination of nano graphene oxide with nano silver, fly ash, zirconium, and titanium powders, Buildings, 13, 1, 172. <https://doi.org/10.3390/buildings13010172>
32. Popescu, V., Prodan D., Cuc, S., Saroși, C., Furtos, G., Moldovan, A., **Carpa R.**, Bombos D., **2023**, Antimicrobial poly (lactic acid)/ copper nanocomposites for food packaging materials, Materials, 16(4), 1415; <https://doi.org/10.3390/ma16041415>
33. Crintea, A., Motofelea A.C., Șovrea, A.S., Constantin, A.M., Crivii, C.B., **Carpa, R.**, Dutu, A.G., **2023**, Dendrimers: Advancements and Potential Applications in Cancer Diagnosis and Treatment-An Overview, Pharmaceutics, 15(5), 1406. <https://doi.org/10.3390/pharmaceutics15051406>
34. Vacar C.L., Ciorita A., Tudoran C., Podar D., **Carpa R.**, Leostean C., Kacsá, I., Mircea, C. **2023**, Compact cold atmospheric pressure plasma cleaner suited for inhibiting bacterial biodeteriogens from paper archives, Journal of Cultural Heritage, 62, 198-205. <https://doi.org/10.1016/j.culher.2023.05.027>
35. Florea, A.-D., Dobrota, C.T., **Carpa, R.**, Racz, C.-P.; Tomoaia, G., Mocanu, A., Avram, A., Soritau, O., Pop, L.C., Tomoaia-Cotisel, M., **2023**, Optimization of Functional Toothpaste Formulation Containing Nano-Hydroxyapatite and Birch Extract for Daily Oral Care. Materials, 16, 7143. <https://doi.org/10.3390/ma16227143>
36. Florea, D.A., Dobrota, C.T., **Carpa, R.**, Riga, S., Tomoaia-Cotisel, M., **2022**, Current status and trends in oral health care technologies. A perspective review, International Journal of Medical Dentistry, 26, 1, 38-50.
37. Butiuc-Keul A-L., Farkas, A., **Carpa, R.**, Dobrota C., Iordache, D., **2022**, Development of smart fruit crops by genome editing, Turkish Journal of Agriculture and Forestry, 46, 129-140.
38. Farkas, A., Coman, C., Szekeres, E., Teban A., **Carpa, R.**, Butiuc-Keul, A., **2022**, Molecular typing reveals environmental dispersion of antibiotic resistant enterococci under anthropogenic pressure, Antibiotics 11(9), 1213; <https://doi.org/10.3390/antibiotics11091213>.
39. Tisler, C.E.; Chifor, R., Badea, M.E.; Moldovan, M.; Prodan, D.; **Carpa, R.**, Cuc, S., Chifor, I.; Badea, A.F. **2022**, Photodynamic Therapy (PDT) in Prosthodontics: Disinfection of Human Teeth Exposed to *Streptococcus mutans* and the Effect on the Adhesion of Full Ceramic Veneers,

- Crowns, and Inlays: An *In Vitro* Study. *Biomedicines*, 10, 144. <https://doi.org/10.3390/biomedicines10010144>
40. Pop (Cherfan), A., Bogdan C., Fizesan, I., Iurian, S., **Carpa, R.**, Bacali C., Vlase, L., Benedec, D., Moldovan, M.L. **2022**, *In vitro* evaluation of biological activities of canes and pomace extracts from several varieties of *Vitis vinifera* L. for inclusion in freeze-drying mouthwashes, *Antioxidants*, 11(2), 218; <https://doi.org/10.3390/antiox11020218>
 41. Purcea Lopes, P.M., Moldovan, D., Moldovan, M., **Carpa, R.**, Saroși, C., Pășcuță, P., Mazilu Moldovan, A., Fechete, R., Popescu, V., **2022**, New composite hydrogel based on whey and gelatin crosslinked with copper sulphate, *Materials*, 15, 2611. <https://doi.org/10.3390/ma15072611>
 42. Butiuc-Keul, A., **Carpa, R.**, Podar, D. Szekeres E., Muntean V., Iordache D., Farkas A., **2021**, Antibiotic Resistance in *Pseudomonas spp.* Through the Urban Water Cycle. *Curr Microbiol.*, 78(4):1227-1237. doi: 10.1007/s00284-021-02389-w.
 43. Dobrota, C.T., **Carpa, R.**, Butiuc-Keul, A. **2021**, Analysis of designs used in monitoring crop growth based on remote sensing methods. *Turkish Journal of Agriculture and Forestry*. doi: 10.3906/tar-2012-79
 44. Ciorîță A, Zăgrean-Tuza C, Moț AC, **Carpa R.**, Pârvu M. **2021**, The Phytochemical Analysis of *Vinca* L. Species Leaf Extracts Is Correlated with the Antioxidant, Antibacterial, and Antitumor Effects. *Molecules*. 26(10):3040. <https://doi.org/10.3390/molecules26103040>
 45. Iurian S.M., Adespei D.R., Pop A., Fizeșan I., **Carpa R.**, Moldovan M.L., Loghin F., Achim M., Bogdan C., **2021**, Development of a mouthwash using freeze-drying technique: an optimization study, *Applied Sciences*, 11(20), 9609; <https://doi.org/10.3390/app11209609>.
 46. Mazilu (Moldovan) A., Popescu V., Sarosi C., Silaghi-Dumitrescu R., Chisnoiu A.M., Moldovan M., Silaghi Dumitrescu L., Prodan D., **Carpa R.**, Gheorghe G.F., Chisnoiu R.M., **2021**, Preparation and *in vitro* characterization of dental whitening gels based on bromelain, whey and quince extract, *Gels*, 7(4), 191; <https://doi.org/10.3390/gels7040191>.
 47. Butiuc-Keul, A., Farkas, A., **Carpa R.**, Iordache, D., **2021**, CRISPR-Cas system: The powerful modulator of accessory genomes in Prokaryotes, *Microbial Physiology*, <https://doi.org/10.1159/000516643>
 48. Prodan D., Moldovan M., Furtos G., Saroși C., Filip M., Perhaita I., **Carpa R.**, Popa M., Cuc S., Varvara S., Popa D., **2021**, Synthesis and characterization of some graphene oxide powders used as additives in hydraulic mortars. *Appl. Sci.*, 11(23), 11330; <https://doi.org/10.3390/app112311330>
 49. Moldovan, M., **Carpa, R.**, Fizeșan, I., Vlase, L., Bogdan, C., Iurian, S., Benedec D., Pop, A., **2020**, Phytochemical profile and biological activities of tendrils and leaves extracts from a variety of *Vitis vinifera* L. *Antioxidants*, 9, 5, 373-393. <https://doi.org/10.3390/antiox9050373>
 50. Dascalu, L.M.; Moldovan, M.; Prodan, D.; Ciotlaus, I.; Popescu, V.; Baldea, I.; **Carpa, R.**, Sava, S.; Chifor, R.; Badea, M.E., **2020**, Assessment and Characterization of Some New Photosensitizers for Antimicrobial Photodynamic Therapy (aPDT). *Materials*, 13, 3012.
 51. Dascalu, L.M.; Moldovan, M.; Prodan, D.; Ciotlaus, I., **Carpa, R.**, Ene R., Sava, S.; Chifor, R.; Badea, M.E., **2020**, Antimicrobial activity and chemical composition of two experimental gels based on essential oils, *Studia UBB Chemia* 65, 2, 57 – 67.
 52. Toth P., **Carpa, R.**, Iordache D.D., Culda C.A., Keul A.L., Roba C.A., Roșu C.D., **2020**, Quality assessment of drinking water from several private wells from Lazuri village (Satu Mare County, Romania), *Journal of Environmental Protection and Ecology*, 21, 1, 106 – 115.
 53. Bacali C., Olteanu D., **Carpa R.**, Moldovan M., Filip A., Baldea I., **2019**, Flexural Strength, Biocompatibility and Antimicrobial Activity of a Polymethyl Methacrylate Denture Resin

Enhanced with Graphene and Silver Nanoparticles, Clinical Oral Investigations, <https://doi.org/10.1007/s00784-019-03133-2>.

54. Podar D., Macalik K., Réti K.O., Martonos I., Török E., **Carpa R.**, Weindorf D.C., Csiszar J., Szekely G., **2019**, Morphological, physiological and biochemical aspects of salt tolerance of halophyte *Petrosimonia triandra* grown in natural habitat, Physiology and Molecular Biology of Plants, 25 (6), 1335-1347.
55. Gherman T., Popescu V., **Carpa R.**, Rapa M., Gavril G.L., Dudescu M.C., Bombos D., **2018**, Potential use of *Galium verum* essential oil for antibacterial properties in gelatin based hydrogels prepared by microwave irradiation technique. Revista de Chimie, 69 (3), 575-580.
56. Gherman T., Popescu V., **Carpa R.**, Gavril G.L., Rapa M., Oprea E.E., **2018**, *Salvia officinalis* essential oil loaded gelatin hydrogel as potential antibacterial wound dressing materials, Revista de Chimie, 69 (2), 410-414.
57. Moldovan, M., Prodan D., Sarosi C., **Carpa R.**, Socaci C., Rosu, M.C., Pruneanu, S., **2018**, Synthesis, morpho-structural properties and antibacterial effect of silicatebased composites containing graphene oxide/hydroxyapatite, Materials Chemistry and Physics, 217, 48–53.
58. Popa, D., Varvara S., Moldovan M., Prodan D., **Carpa R.**, Varsta A., Popa M., **2018**, Study on the importance of physicochemical characteristics from the walls in the rehabilitation works of heritage buildings, Journal of Environmental Protection and Ecology, (Environmental protection and sustainable development) 19, (3), 1166–1174.
59. Moldovan M., Prejmerean C.A., Prodan D.F., Silaghi Dumitrescu L., **Carpa R.**, Pruneanu S., Sarosi L.C., **2017** Antibacterial activity and flexural strength for experimental composites with graphene, Dental Materials, 33:e54-e55, DOI: 10.1016/j.dental.2017.08.107.
60. Orasan O., Orasan R., Saplonțai-Pop A., Filip M, **Carpa R.**, Sarosi L.C., Moldovan M., Man S.C., **2017**, Antimicrobial activity and thiosulfates profile of a formulation based on *Allium cepa* L. extract, Open Chemistry. 15, 175-181.
61. Lupan I., Ianc M.B., Kelemen B.S., **Carpa R.**, Rosca-Casian O., Chiriac M.T., Popescu O., **2014**, New and old microbial communities colonizing a seventeenth-century wooden church, Folia Microbiologica, 59 (1) 45-51.

C3. Articole publicate în reviste indexate BDI, ca autor principal:

1. **Carpa R.**, Remizovschi A., Burtescu R.F., Culda C.A., Kryvtsova M., Hasynets Y., Butiuc-Keul A., Dobrota C., Farkas A., Olah, N.K., **2022**, Salicin content from *Salix alba* L. and *Salix purpurea* L. extracts and its antibacterial effects, Contributii Botanice, 57, 23-36.
2. Mirea, D.R., Rosalim, M.E., **Carpa, R.**, **2019**, *Staphylococcus* infections: methicillin high-resistance and incidence based on environmental factors and individual characteristics of the patients, Scientific Studies and Research. Biology (SSRB), Bacau, 28, 2, 22-27.
3. Culda C.A., **Carpa R.**, Dejeu, C., Butiuc A.L., **2019**, Microbial activity in mountain soils from Făgăraș zone, Studia Universitatis UBB, Biologia, 64, 2, 55-66
4. **Carpa R.**, Căndea, A., Remizovschi, A., Barbu-Tudoran L., Maior M.C., **2018**, Cellulase production and morphology of *Trichoderma reesei* in different experimental conditions, Studia Universitatis Babeș-Bolyai, Biologia, 63, 2, 115-129.
5. Remizovschi A., **Carpa R.**, Drăgan-Bularda, M., **2018**, Biological and geological traits of terrestrial mud volcanoes – a review, Analele Universitatii din Oradea - Fascicula Biologie, Tom XXV, 2, 102-114.
6. **Carpa R.**, Remizovschi A., **2018**, Bioluminescent assay for viability of *Azotobacter* sp. from different environments, SSR Biology, Bacau, 27, 2, 49-54.

7. **Carpa R.**, Reti K.O., Macalik K., Torok E., Remizovschi A., Szekely G., **2017**, Influence of salt content on enzymatic activities and halophytes distribution in Cojocna zone, Romania, *Studia Univ. Babeș-Bolyai, Biologia*, LXII, 2, 21-32. doi:10.24193/subbbiol.2017.2.02.
 8. **Carpa R.**, Dumitru D.V., Burtescu R.F., Maior M.C., Dobrota C.T., Olah N.K., **2017**, Biochemical analysis of *Datura stramonium* extract, *Studia Univ. Babeș-Bolyai, Biologia*, LXII, 2, 5-19. doi: 10.24193/subbbiol.2017.2.01
 9. Dumitru D.-V., Campeanu R., Olah N.-K., **Carpa R.**, **2016**, Biological analysis of *Ginkgo biloba* extract. *ELBA Bioflux* 8(2):34-43.
 10. Samasca G., Deleanu D., Sur G., Lupan I., Alexandru G., **Carpa R.**, **2016**, Is it necessary to screen *Helicobacter pylori* infection in patients with celiac disease and iron deficiency?, *Gastroenterology and Hepatology from Bed to Bench*, 9(4):345.
 11. Lupan I., Pirvan A., Sur G., Samasca G., Deleanu D., Abrudan C., Alexandru G., **Carpa R.**, **2016**, Immunopathology of pediatric celiac disease associated with *Helicobacter pylori* infection, *International Journal of Celiac Disease*, 4 (3): 80-81.
 12. Fetke R., **Carpa R.**, Drăgan-Bularda M., **2015**, Sanitary parameters of water from Secu and Valiug dam reservoirs, Caraș-Severin county, Romania., *Analele Universității Oradea, Fascicula Biologie*, Tom. XXII, 2, 63-69.
 13. **Carpa R.**, Mureșanu M., Maior M. C., Drăgan-Bularda M., **2014**, Enzymatic activity in soil samples from Gilău and Florești transect, Cluj, Romania, *ELBA Bioflux* 6 (2): 94-100.
 14. Fetke R., **Carpa R.**, Drăgan-Bularda M., **2013**, Enzymatic activities in sediments from Secu and Văliug-Gozna dam reservoirs, Caraș-Severin, Romania. *ELBA Bioflux* 5 (2):93-102.
- C4. *Articole publicate în reviste indexate BDI, ca și contributor:*
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E. Brevete obținute în întreaga activitate

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Semnătura:

E – Brevete (pentru întreaga activitate)