

LISTA DE LUCRARI 2015-2025

a) Articole/studii, publicate în reviste din fluxul științific internațional principal

c.1. Articole indexate WOS

1. Gorincioi, E., Vicol, C., Bolocan, N., Cimpoi, C., Barba, A., Nica, S., Duca, Gh. Harnessing Synergy: Investigation of the Antioxidant Interactions Between *trans*-Resveratrol and L-Ascorbic Acid by Spectroscopic and DFT Method. *Acta Chimica Slovenica*, 2025, 72, 654-665. <https://doi.org/10.17344/acsi.2025.9292>.
2. Rad, R., Costea, L.M., Meghesan A., Cimpoi, C. LC- MS/MS analysis and validation of pesticides residue in vegetables asserted to be organic. *Journal of Liquid Chromatography and Related Technologies*, 2025. <https://doi.org/10.1080/10826076.2025.2479790>
3. Bükler, E., Kayabaş Avşar, A., Yildirim, E., Casoni, D., Cobzac, S.C.A., Cimpoi, C. (2025) Unveiling the potential of three endemic *Gypsophila* L. (Caryophyllaceae) as promising carbonic anhydrase inhibitors - bio-metabolic profiles and *in vitro* evaluation of enzyme inhibition and antioxidant capacity. *Antioxidants*, 14(2), 219; <https://doi.org/10.3390/antiox14020219>
4. Rad, R., Hosu, A., Cimpoi, C. (2025). Matrix-matching calibration as a new approach for quantitation of monosodium glutamate in food seasoning powders using high performance thin layer chromatography. *Journal of Food Composition and Analysis*, 139, 107153. <https://doi.org/10.1016/j.jfca.2024.107153>
5. Baumli, J., Mărincean A.-I., Cimpoi, C. Scanning of chicoric acid in different parts of *Cichorium intybus* by high-performance thin-layer chromatography with quantitation by image analysis. (2024) *Journal of Planar Chromatography-Modern TLC*, C 37, 491–497. <https://doi.org/10.1007/s00764-025-00332-4>
6. Roman, I., Moldoveanu, C.-A., Drăgan, Ș., Baumli, J., Cimpoi, C., Toma, V.-A. (2024). Neurotrophic effects of iridoid glycosides from *Lamium album* L. as natural GLP1-R modulators in repeated restraint stress. *Studia UBB Chemia*, LXIX(3), 35-53. <https://doi.org/10.24193/subbchem.2024.3.03>
7. Baumli, J., Antal, N., Casoni, D., Cimpoi, C. (2023). Use of Secondary Metabolites Profiling and Antioxidant Activity to Unravel the Differences between Two Species of Nettle. *Plants*, 12, 3233. <https://doi.org/10.3390/plants12183233>.
8. Scrob, T., Filip, G.A., Baldea, I., Varodi, S.M., Cimpoi, C. (2023). Sweeteners' influence on *in vitro* α -glucosidase inhibitory activity, cytotoxicity, stability and *in vivo* bioavailability of the anthocyanins from lingonberry jams. *Foods*, 12, 2569. <https://doi.org/10.3390/foods12132569>
9. Tarna, A., Cimpoi, C., Hosu, A. (2023). Integrated methods for fingerprinting of monofloral honeys. *Journal of Liquid Chromatography and Related Techniques*. <https://doi.org/10.1080/10826076.2023.2224024>
10. Szasz, M., Casoni, D., Cimpoi, C. (2023). Study on binding affinity profile, bioactivity, and lipophilicity of selected antipsychotic drugs. *Journal of Liquid Chromatography and Related Techniques*. <https://doi.org/10.1080/10826076.2023.2216780>
11. Hosu, A., Cimpoi, C. (2022). A cost-effective and rapid method base on high-performance thin-layer chromatography in evaluating the roasted coffee adulteration. *Studia Universitatis Babeș-Bolyai Chemia*, LXVII(4), 11-17. DOI:10.24193/subbchem.2022.4.01
12. Costea, L.M., Rad, R., Cimpoi, C., Meghesan, A. (2022). Determination of 2,4-dichlorophenoxyacetic acid (2,4-D) from tomatoes by LC-MS/MS analysis. *Studia*

13. Scrob, T., Varodi S.M., Vintilă G.A., Casoni, D., Cimpoiu, C. (2022). Estimation of degradation kinetics of bioactive compounds in several lingonberry jams as affected by different sweeteners and storage conditions. *Food Chemistry: X*, 16, 100471. <https://doi.org/10.1016/j.fochx.2022.100471>
14. Scrob, T., Covaci, E., Hosu, A., Tanaselia, C., Casoni, D., Török, A. I., Frentiu, T., Cimpoiu, C. (2022). Effect of in vitro simulated gastrointestinal digestion on some nutritional characteristics of several dried fruits. *Food Chemistry*, 385, 132713. <https://doi.org/10.1016/j.foodchem.2022.132713>
15. Scrob, T., Hosu, A., Cimpoiu, C. (2022). Sweeteners from different lingonberry jams influence on bioaccessibility of vitamin C, anthocyanins and antioxidant capacity under in vitro gastrointestinal digestion. *Antioxidants*, 11, 442. <https://doi.org/10.3390/antiox11030442>
16. Hosu, A., Cimpoiu, C. (2022). High-performance thin-layer chromatography evaluation of the counterfeiting of vanilla flavoring. *JPC-Journal of planar chromatography-modern TLC*, 35, 1-5. <https://doi.org/10.1007/s00764-022-00179-z>
17. Cimpoiu, C., Milna, A., Danciu, V., Hosu, A. (2021). The influence of assortment of beer on their antioxidant / pro-oxidant capacity and phenolic fingerprint. *Studia Universitatis Babes-Bolyai Chemia*, LXVI, 23-40. <https://doi.org/10.24193/subbchem.2021.2.02>
18. Vicol, C., Cimpoiu, C., Duca, G. (2021). Investigation of synergic/anti-synergic interactions of dihydroxifumaric acid and ascorbic acid with DPPH. *Studia Universitatis Babes-Bolyai Chemia*, LXVI, 49-58. <https://doi.org/10.24193/subbchem.2021.2.04>
19. Seck, I., Hosu, A., Cimpoiu, C., Ndoye, S.F., Ba, L.A., Sall, C., Seck, M. (2021). Phytochemicals content, screening and antioxidant/pro-oxidant activities of *Carapa procera* (barks) (Meliaceae). *South African Journal of Botany*, 137, 369-376. <https://doi.org/10.1016/j.sajb.2020.11.019>
20. Hosu, A., Cimpoiu, C. (2020). Evaluation of various biological activities of natural compounds by TLC/HPTLC. *Journal of Liquid Chromatography & Related Technologies*, 43(9-10), 305-318. <https://doi.org/10.1080/10826076.2020.1725548>
21. Bora F.D., Calugar A., Bunea C.I., Petrescu Mag V., Cimpoiu, C., Filimon V.R. (2019). Trace metal concentration and human health. Risk assessment in distilled alcoholic beverages in Romania. *Studia UBB Chemia*, LXIV, 4, 157-176. DOI:10.24193/subbchem.2019.4.12
22. Scrob T., Hosu A., Cimpoiu, C. (2019). The Influence of in Vitro Gastrointestinal Digestion of Brassica oleracea Florets on the Antioxidant Activity and Chlorophyll, Carotenoid and Phenolic Content. *Antioxidants* 8(212) 1-11.
23. Scrob T., Hosu A., Cimpoiu, C. (2019) Trends in analysis of vegetables by high performance TLC. *Journal of Liquid Chromatography & Related Technologies*, 42(9-10), 249-257
24. Donici A., Gal E., Cimpoiu, C., Bunea C.I., Bora F.D. (2018). Multi-element composition of red and white wines from Bujoru, Smulti and Oancea wine center, Romania. *Studia UBB Chemia*, LXIII, 4, 113-128. DOI:10.24193/subbchem.2018.4.09
25. Farcas A.D., Mot A.C., Zagrean-Tuza C., Toma V., Cimpoiu, C., Hosu A., Parvu M., Roman I., Silaghi-Dumitrescu R. (2018). Chemo-mapping and biochemical-modulatory and antioxidant/prooxidant effect of *Galium verum* extract during acute restraint and dark stress in female rats. *PLoS ONE* 13(7): e0200022. <https://doi.org/10.1371/journal.pone.0200022>
26. Danciu V., Hosu A., Cimpoiu, C. (2018). Thin-layer chromatography in spices analysis. *Journal of Liquid Chromatography & Related Technologies* 41(6), 282-300. DOI: 10.1080/10826076.2018.1447895

27. Meghesan-Breja A., Hosu A., Cimpoiu C. (2017). Identification and Quantification of some pesticide metabolites from vegetables by GC-TOF-MS and LC-MS-QQQ. *Studia UBB Chemia*, LXII, 3, 19-34.
28. Hosu A., Cimpoiu C. (2017). Thin-layer chromatography applied in quality assessment of beverages derived from fruits. *Journal of Liquid Chromatography & Related Technologies* 49(5-6), 239-246.
29. Hosu A., Cimpoiu C., Luminita D., Moldovan B. (2016). Study of the Antioxidant Property Variation of Cornelian Cherry Fruits during Storage Using HPTLC and Spectrophotometric Assays. *Journal of Analytical Methods in Chemistry*, Volume 2016, Article ID 2345375, 5 pages. <http://dx.doi.org/10.1155/2016/2345375>.
30. Porteka B., Mot A.C., Cimpoiu C., Hosu A., Bischin C., Damian G., Fischer Fodor E., Silaghi Dumitrescu R. (2016). Selective Protective Effect of Antioxidant-rich Rumex acetosa Extracts, *Revista de Chimie (Bucharest)*, 67(5), 833-837.
31. Hosu A. Floare-Avram V., Magdas A.D., Feher I., Inceu M., Cimpoiu C. (2016). The Influence of the Variety, Vineyard, and Vintage on the Romanian White Wines Quality. *Journal of Analytical Methods in Chemistry*, Volume 2016, Article ID 4172187, 10 pages, <http://dx.doi.org/10.1155/2016/4172187>.
32. Danciu V., Hosu A., Cimpoiu C., (2016). Comparative evaluation of antioxidant activity using 1,1-diphenyl-2-picrylhydrazyl and 2,2'-azino-bis(3-Ethylbenzothiazoline-6-Sulphonic Acid) methods, *Journal of Planar Chromatography-Modern TLC*, 29(4), 306-309.
33. Moldovan B., Hosu A., David L., Cimpoiu C., (2016). Total phenolics, total anthocyanins, antioxidant and pro-oxidant activity od some red fruits teas, *Acta Chimica Slovenica*, 63(2), 213-219.
34. Hosu A., Cimpoiu C., (2016). HPTLC fingerprinting: A useful tool for white wines authentication. *Journal of Liquid Chromatography & Related Technologies*, 39(5-6), 303-307.
35. Hosu A., Cimpoiu C. (2015). A simple TLC method for evaluation of nicotine in cigarettes. *Studia UBB Chemia*, LX, 4, 107-114.
36. Hosu A., Danciu V., Cimpoiu C. (2015). Validated HPTLC fingerprinting and antioxidant activity evaluation of twenty-seven Romanian red wines, *Journal of Food Composition and Analysis*, 41, 174-180.
37. Muresan B., Cimpoiu C., Hosu A., Bischin C., Gal E., Damian G., Fischer-Fodor E., Silaghi-Dumitrescu R. (2015). Antioxidant content in romanian traditional distilled alcoholic beverages. *Studia UBB Chemia*, LX, 2 (Tom II), 355-370.
38. Meghesan-Breja A., Cimpoiu C., Hosu, A., (2015). Multiresidue analysis of pesticides and metabolites from fruits and vegetables by gas chromatography-time-of-flight mass spectrometry. *Acta Chromatographica*, 27(4), 657-685.
39. Avram V., Floare C.G., Hosu A., Cimpoiu C., Măruțoiu C., Moldovan Z., (2015). Characterization of Romanian Wines by Gas Chromatography-Mass Spectrometry. *Analytical Letters*, 48(7), 1099-1116.
40. Inceu M., Sandu I., Hosu A., Pascu L.F., Cimpoiu C., (2015) Study Concerning Pesticide Residues in Twenty-seven Romanian White Wines. *Revista de Chimie (Bucharest)*, 66(3), 368-372.
41. Hosu A., Pop B., Cimpoiu C. (2015). The Forensic Analysis of Pigments from Some Inks by HPTLC. *Journal of Liquid Chromatography & Related Technologies*, 38, 1109-1112.
42. Meghesan-Breja A., Măruțoiu C., Cimpoiu C., (2015). Multi-residues Analysis for 88 Pesticides and Metabolites from Soil by Gas Chromatography-time - of - Flight Mass Spectrometry. *Revista de Chimie (Bucharest)*, 66(1), 32-38.

c.2. Articole indexate BDI

1. Bora F.D., Donici A., Voica C., Rusu T., Cozmuța L.M., Cozmuța A.M., Cimpoi C., Mihăiescu D.E. (2016). The determination of $^{206}\text{Pb}/^{207}\text{Pb}$, $^{208}\text{Pb}/^{206}\text{Pb}$ and $^{87}\text{Sr}/^{86}\text{Sr}$ isotope ratios by ICP-MS for fingerprinting the South-East Romanian wines, *AAB Bioflux*, 8(3), 129-142.
2. Bora F.D., Donici A., Voica C., Rusu T., Cimpoi C., Nicula C., Peter A., Bunea C.I., Pop N., Mihăiescu D.E. (2016). Inductively coupled plasma-mass spectrometry (ICP-MS) characterization of some white wines from Dealu Bujorului Vineyard by their mineral content, *AAB Bioflux*, 8(3), 156-175.

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