

Rezultatele activității de cercetare în perioada 2021-2025

1. Articole științifice, publicate în reviste de specialitate recunoscute la nivel național și internațional;

1.1. Articole publicate în reviste cotate ISI

1. Paunescu R., Bonciu E., Rosculete E., Paunescu G., Rosculete C., Babeanu C., The Variability for the Biochemical Indicators at the Winter Wheat Assortment and Identifying the Sources with a High Antioxidant Activity, *Plants*, **10** (11), 2443, 2021
2. Dinu M., Soare R., Babeanu C., Hoza G., Sima R., Nutraceutical value and production of the sweet potato (*Ipomoea batatas* L.) cultivated in South-West of Romania, *Journal of Central European Agriculture*, 2021, 22(2), 285-294, 2021
3. Buzatu-Goanta C., Corneanu M., Babeanu C., *Salix* accessions with potential for new hybrids. A case study from Banat area, *Scientific papers-Series E-Land Reclamation Earth Observation & Surveying Environmental Engineering*, 10, 214-220, 2021
4. Dinu M., Soare R., Hoza G., Becherescu A.D., Babeanu C., Bioactive compounds content and antioxidant activity in the leaves of some sweet potato cultivars (*Ipomoea batatas* L.), *Scientific Papers-Series B, Horticulture* 65 (1), 423-430, 2021
5. Soare R., Dinu M., Babeanu C., Soare M., Biochemical changes during the storage of sweet potato roots, *Scientific Papers Series B, Horticulture*, 66, 526-532, 2022
6. Dinu M., Soare R., Babeanu C., Botu M., Evaluation of productivity components and antioxidant activity of different types of garlic depending on the morphological organs, *HORTICULTURAE*, 9 (9), 1039, 2023
7. Dinu M., Soare R., Babeanu C., Hoza G., Botu M., Effects of organic farming system on some nutritional parameters of tomatoes fruits at different ripening stages, *CHILEAN JOURNAL OF AGRICULTURAL RESEARCH*, 83(3), 293-306, 2023
8. Soare R., Dinu M., Babeanu C., Effect of biofertilizers on quality of sweet corn, *Scientific Papers-Series B, Horticulture*, 67(1), 696-702, 2023
9. Popa P.M., Babeanu C., Cosmulescu S.N., Evaluation of chemical compounds in local garlic genotypes from Southwestern Romania, *APPLIED SCIENCES-BASEL*, 14(16), 6899, 2024
10. Soare R., Dinu M., Babeanu C., Niculescu M., Soare M., Botu M., Quantitative and qualitative production of species *Cucumis metuliferus* and the potential for adaptation in the context of current climate change, *PLANTS-BASEL*, 13(13) 1854, 2024

11. Soare R., Dinu M., Babeanu C., Botu M., The influence of foliar fertilization with humic acids - based products on the quality of tomato fruits, Scientific Papers-Series B, Horticulture, 68(1), 511-515, 2024
12. I. Quaratesi, V. Ferrara, I. Călinescu, P. Chipurici, I. Popa, C. Carșote, P. La Manna, E. Badea * (corresp. author), Sustainable vegetable tanning: Ultrasound-assisted tannin extraction of oak bark and analytical approaches to collagen–tannin interactions, International Journal of Biological Macromolecules 2025, Volume 330, Part 3, 148194, 10.1016/j.ijbiomac.2025.148194.
13. I. Quaratesi , P. Chipurici, V. Ferrara, C. Casas, A. Bacardit, N. Proietti, C.Talotta, C. Gaeta, V. Iuliano, I. Bruno, A. Pauciulo, R. Gliubizzi, I. Călinescu and E. Badea* (corresp. author), Biodegradable Alginate Derivatives Obtained by Eco-Friendly Ultrasound Technology for More Sustainable Leather Tanning, Green Chemistry 2025, 27 (35) 10567-10581, 10.1039/D4GC06571A
14. Quaratesi, I. Călinescu, P. Chipurici, E.-G. Dumbravă, A. Cucos, M. Yassine Zaki, P. La Manna, A. Bercea, M. S. Stan, S. Michalik, C. Pearce, M. Odlyha, G. Burca, E. Badea* (corresp. author), Ultrasound-Assisted Synthesis of β -Cyclodextrin/Hydroxyapatite Composites as a Green and Safe Additive for Enhancing Leather Properties, Journal of Molecular Structure, 2025, Volume 1328, 141299, ISSN 0022-2860, 10.1016/j.molstruc.2024.141299.
15. M. Stanca, E. Badea*(corresp. author), C. Gaidau, I. Quaratesi, G.E. Ionita, N. Proietti, B. Lungu, T. Zaharescu, Changes in collagen matrix of raw hide induced by gamma irradiation, Rad. Phys. Chem. 228, 2025, 112394, 10.1016/j.radphyschem.2024.112394.
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I. Quaratesi, E. Badea, I. Călinescu, N.P. Sardroudi, G. Zengin, C. Casas, A. Bacardit, A. Eco-friendly alternatives in leather production: performance of biodegradable alginate-based retanned leather compared to conventional leathers and plant-based materials. Appl. Sci. 2024, 14, 10263. 10.3390/app142210263
17. I.Quaratesi, M.C. Micu, E. Rebba, C. Carsote, N. Proietti, V. Di Tullio, R. Porcaro, E. Badea* (corresp. author), Cleaner Leather Tanning and Post-Tanning Processes Using Oxidized Alginate as Biodegradable Tanning Agent and Nano-Hydroxyapatite as Potential Flame Retardant. Polymers 2023, 15, 4676. 10.3390/polym15244676
18. C. Gaeta, I. Quaratesi, I. Bruno; A. Pauciulo; A. R. Bartiromo, Elena Badea* (corresp. author), C. Carsote, P. Neri, C.Talotta, R. Gliubizzi, V. Di Tullio, N. Proietti, A. Cepparrone, F. Nuti, Side-chain Poly[2]pseudorotaxanes containing β -cyclodextrin for more sustainable tanning process, Polymer Testing, Volume 129, 2023, 108268, ISSN 0142-9418, 10.1016/j.polymertesting.2023.108268
19. I.S. Czirok, E. Jakab, Z. Czégény, E. Badea* (corresp. author), B. Babinszki, S. Tömösközi, Z. May, Z. Sebestyén, Thermal characterization of leathers tanned by metal salts and vegetable tannins, J. Anal. Appl. Pyrol., 2023, 106035, 10.1016/j.jaap.2023.106035

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21. Z. Sebestyén, E. Badea, C. Carsote, Z. Czégény, T Szabó, B Babinszki. E Jakab, Characterization of historical leather bookbindings by various thermal methods (TG/MS, Py-GC/MS, and micro-DSC) and FTIR-ATR spectroscopy, *J. Anal. Appl. Pyrol.* 2022, 162, 105428, 10.1016/j.jaap.2021.105428
22. C. Carsote, C. Sendrea, M.-C. Micu, Alina Adams, E. Badea* (corresp. author), Micro-DSC, FTIR-ATR and NMR-MOUSE study of the dose-dependent effects of gamma irradiation on vegetable-tanned leather, *Rad. Phys. Chem.* 2021,189, 109712, 10.1016/j.radphyschem.2021.109712
23. G. Brătulescu, " Simple and efficient green methods involving microwaves and mechanochemistry for synthesis of a Schiff ligand, 3, 3'-([1,1'-biphenyl]-4,4'-diylbis (azanylylidene)) bis(indolin-2-one) with antimicrobial activity ", *FARMACIA*, 2023, 71 (1), 109-115.
24. G. Brătulescu, " Green P(AAm-co-DADMAC) copolymeric material as catalyst for synthesis of potential phytohormones of phenylazophenoxy-acetic acids by phase transfer catalysis ", *Materiale Plastice*, 2022, 59(1), 70-77
25. V. M. Cimpoiășu, I. Pălărie, G. Brătulescu, C. Dascălu, P. Rotaru, " The optical birefringence study of [4-(4-chlorobenzyloxy)-3-methylphenyl] (p-tolyl) diazene dye ", *University Politehnica of Bucharest Scientific Bulletin-Series A-Applied Mathematics and Physics*, 2021, Vol. 83 (4), 205-216.
26. G. Brătulescu, " Conventional and green synthesis under solvent-free microwave irradiation of 2-(4-(phenyldiazenyl) phenoxy) acetic acid derivatives and their biological activity ", *FARMACIA*, 2021, 69(2), 267-273.
27. MIHAELA GABRIELA DUMITRU, Extraction and identification of natural rubber from the latex obtained from *Ficus carica*. Latex characterization. *MATERIALE. PLASTICE*, Vol.62, No.2, p 22-32, 2025, Factor impact 0,7 ISSN 0025-5289.
28. Smarandache, D., Godinho, B., Ionescu, C., Cioateră, N., Ferreira, A., Gama, N. Enzymatic synthesis of poly(erythritol sebacate). *Journal of Elastomers & Plastics*. 2025, 56(7), 935–952, <https://doi.org/10.1177/009524432513408>
29. Nicolaescu OE, Ionescu C, Samide A, Tigae C, Spînu CI, Oprea B. Advancements in Cyclodextrin Complexes with Bioactive Secondary Metabolites and Their Pharmaceutical Applications. *Pharmaceutics*. 2025; 17(4):506. <https://doi.org/10.3390/pharmaceutics17040506>
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33. Huseynova F.; Ionescu C.; Cuisinier F.; Huseynova I.; Mammadov A.; Barragan-Montero V. Could CH₃-M6P Be a Potential Dual-Functioning Candidate for Bone Regeneration? *Biomedicines* 2024, 12, 2697. <https://doi.org/10.3390/biomedicines12122697>
34. Ionescu C., Ciobanu G., Barragan-Montero V., An application of the Mitsunobu reaction in manose series, using triethyl methanetricarboxylate as pronucleophile. *Afinidad Journal of Chemical Engineering Theoretical and Applied Chemistry* (2023) 80(600), 180-187. <https://doi.org/10.55815/422392>
35. Ionescu C., Oprea B., Ciobanu G., Georgescu M., Bică R., Mateescu G.-O., Huseynova F., Barragan-Montero V. The Angiogenic Balance and Its Implications in Cancer and Cardiovascular Diseases: An Overview *Medicina* (2022) 58, 903, 1-19. <https://doi.org/10.3390/medicina58070903>
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38. Rizea S. C., Ionescu C., Pîrvu A., Barragan-Montero V., Neamțu J. Synthesis of a hydroxybisphosphonic-derived amphiphilic compound, *Rev. Roum. Chim.* (2021) 66(4), 375-380. DOI: 10.33224/rrch.2021.66.4.09
39. Azorubine: physical, thermal and bioactive properties of the widely employed food, pharmaceutical and cosmetic red azo dye material, Marian Leulescu, Andrei Rotaru, Anca Moanță, Gabriela Iacobescu, Ion Pălărie, Nicoleta Cioateră, Mariana Popescu, Marius Cătălin Criveanu, Emilian Morîntale, Mihaela Bojan, Petre Rotaru, *Journal of Thermal Analysis and Calorimetry*, 143 (6), 3945-3967, 2021.
40. Sunset Yellow: physical, thermal and bioactive properties of the widely employed food, pharmaceutical and cosmetic orange azo-dye material, Marian Leulescu, Ion Pălărie, Andrei Rotaru, Anca Moanță, Nicoleta Cioateră, Mariana Popescu, Gabriela Iacobescu, Emilian Morîntale, Mihaela Bojan, Maria Ciocîlteu, Iulian Petrișor, Petre Rotaru, *Journal of Thermal Analysis and Calorimetry*, 148 (4), 1265–1287, 2023.
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44. A. Dobrițescu, A. Samide, N. Cioateră, O. C. Mic, C. Ionescu, I. Dăbuleanu, C. Tigae, C. I. Spînu, B. Oprea, The inhibitory effect and adsorption properties of testagen peptide on copper surface in saline environment. Experimental and computational study, *Molecules*, volume 30, issue 15, 3141, 2025.
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48. A. Samide, G.E. Iacobescu, B. Tutunaru*, S. Iordache, Silver nanoparticles/polyvinyl alcohol film: studies of thermal characterization, AFM and corrosion protection by electrodeposition on 304L stainless steel, *J. Therm. Anal. Calorim.* (2021) 439, DOI:10.1007/s10973-020-10444-0, WOS:000604537200004.
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51. A. Samide, B. Tutunaru*, R.M. Varut , B. Oprea, S. Iordache, Interactions of some chemotherapeutic agents as epirubicin, gemcitabine and paclitaxel in multicomponent systems based on orange essential oil, *Pharmaceuticals* (2021) 14, 619, DOI:10.3390/ph14070619, WOS:000676449300001.
52. B. Tutunaru*, A. Samide, C.I. Spînu, C. Tigae, B. Oprea, Induced effect of gold nanoparticles (AuNPs) and halide ions on pyridoxine molecule stability, *Applied Sciences (Switzerland)* (2021) 11(20), 9470; <https://doi.org/10.3390/app11209470>.
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60. M. Mureseanu, N. Cioatera, G. Carja, Fe-Ce/Layered Double Hydroxide Heterostructures and Their Derived Oxides: Electrochemical Characterization and Light-Driven Catalysis for the Degradation of Phenol from Water, *Nanomaterials* 13 (2023) Art No 981.
61. D. Sarbu, N.G. Bizdoaca, N. Cioatera, C.I. Vladu, A. Rotaru, C.F. Pana, D.M. Patrascu, G. Florian, P. Rotaru, Thermal stability, rheological and morpho-structural properties of the magnetorheological fluid MRF122 employed in spherical joint mechanisms, *J. Thermal Anal. Calorim.* 148 (2023) 1289-1308.
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64. A.Reiss, N. Cioatera, A. Dobritescu, M. Rotaru, A.C. Carabet, F. Parisi, A. Ganescu, I. Dabuleanu, C.I. Spinu, P. Rotaru, Bioactive Co(II), Ni(II), and Cu(II) Complexes Containing a Tridentate Sulfathiazole-Based (ONN) Schiff Base, *Molecules* 26 (2021) 3062.
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1.2. Articole publicate în reviste internaționale indexate BDI

1. C. Senfett, L. A. Remotti, K. Vizárová, R. Tiño, E. Badea, C. Carsote, P. Livi, F. Mozzoni, SAFECULT Erasmus+ project and the urgent need to have a European skills framework for disaster risk management in the field of written cultural heritage, *Conservation Update* 2 (2022), 23-35, DOI: <https://doi.org/10.48341/femk-db52>.
Indexat în AATA Abstracts of International Conservation Literature.
2. G. Brătulescu, " A conventional and green synthesis of 3,3'-([1,1'-biphenyl]-4,4'-diylbis(azanylylidene))bis(indolin-2-one) derivatives, potential monomers for Schiff base polymers, using an ionic liquid catalyst ", *Revista de Chimie*, 2023, 74 (4), 1-9
3. Mihaela Gabriela Dumitru, Biochemical and Sensory Evaluation of Arabica Coffee and Chickpea Blend: A Caffeine Reduced Alternative, *International Journal of Science and Research (IJSR)*, Volume 13, Issue 10 (2024), p 320- 325;
4. Ionescu, C., G. Ciobanu, N. Pălăduți, A. Moanță, Influence of zinc ions on the thermal stability of alpha-mannosidase. *Annals of the University of Craiova The Chemistry Series Volume L, No. 2 (2024) 35-39* (Communications at the 15th National Chemistry Symposium, Craiova, Romania, 29th of October, 2024).
5. Ionescu, C., G. Ciobanu Total phenolic content and antioxidant activity of *Pisum sativum* sprouts extract. *Annals of the University of Craiova, The Chemistry Series. Volume XLIX, No. 2 (2023) 49-52* (Communications at the 15th National Chemistry Symposium, Craiova, Romania, 26-27 of October, 2023).
6. Ionescu C., Ciobanu G.- A. Influence of heating on the activity of α -mannosidase, *Annals of the University of Craiova, The Chemistry Series, Volume XLIX, No. 1 (2023) 35-43*.
7. Ionescu C., Ciobanu G.- A. Effect of zinc ions and of EDTA on μ -mannosidase activity, *Annals of the University of Craiova, The Chemistry Series, Volume XLIX, No. 1 (2023) 51-58*.
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1.3. Articole publicate în reviste din țară indexate BDI / recunoscute CNCSIS – categoria: B și B+

1. Babeanu C., Ciobanu A., Total phenolic, total flavonoids content and antioxidant activity in fruits of four plum (*Prunus domestica* L.) cultivars, *Annals of the University of Craiova, The Chemistry Series, XLVII (2), 45-52, 2021*
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3. Babeanu C., The phenolic compounds content and antioxidant activity of some medicinal plants, *Annals of the University of Craiova - Agriculture, Montanology, Cadastre Series, 52 (1), 23-28, 2022*

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5. Babeanu C., Matei G., Influence of harvest time on carbohydrates content of Jerusalem artichoke (*Helianthus tuberosus* L.) tubers, , *Annals of the University of Craiova The Chemistry Series, XLVIII* (2), 14-21, 2022
6. Soare R., Dinu M., Babeanu C., Evaluation of some cucumber hybrids (*Cucumis sativus* l.) for quality traits, *Annals of the University of Craiova, Series Agriculture, Montanology, Cadastre*, 53(1), 284-290, 2023.
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8. Babeanu C., Balica (Piturca) Viorica, Phytochemical content and antioxidant activity in flesh and peel of three apple cultivars, *Annals of the University of Craiova The Chemistry Series, XLX* (1), 27-34, 2024.
9. Babeanu C., Corneanu M., Buzatu-Goanta C., Balica (Piturca) Viorica, Oxidoreductase enzymes activities and proline content in leaves of four *Salix* genotypes, *Annals of the University of Craiova The Chemistry Series*, 51(1), 88-93, 2025
10. D.D. Filip, C. Carsote, Z. I. Balta, G. Olariu, P. Scrobota, E. Badea, Insights into the mineral pigments (cinnabar, orpiment and lead- and copper-based pigments) employed in the creation of wooden Transylvanian icons dated eighteenth to early nineteenth centuries. *Annales Universitatis Apulensis. Series Historica* 27 (2023) <https://auash.uab.ro/AUASH/article-441?sfnsn=wa>
11. D. D. Filip, C. Carsote, Z. I. Baltă, P. Scrobotă, E. Badea, Local raw material sources in the colour palette of the Transylvanian icon painters. The Reproduction of Some Colored Earth Pigments of Local Provenience, *Terra Sebus. Acta Musei Sabesiensis*, 15, 2023, ISSN: 2066–9143.
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2. Brevete

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4. Comunicări științifice la conferințe/simpozioane

4.1. Studii comunicate la conferințe/simpozioane naționale

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4.2. Studii comunicate la conferințe/simpozioane internaționale

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3. Quaratesi Ilaria, Della Sala Paolo, Capacchione Clotilde, Talotta Carmen, Geremia Silvano, Hickey Neal, Gliubizzi Rocco, Bruno Immacolata, Sgarlata Carmelo, Migliore Rossella, Gaeta Carmine, Neri Placido, **Badea Elena**, β -Cyclodextrin host for the selective molecular recognition of isomers of Bisphenol S in water, 28th edition of the Progress in Organic and Macromolecular Compounds Conference, MACRO Iasi 2021, Volum rezumate <https://icmpp.ro/macroiiasi2021/proceedings.php>
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74. Ce-Modified Mesoporous TiO₂ Thin Films As Efficient Photoanodes For Photocatalytic Fuel Cell Systems, M. Mureseanu, V. Chivu, M. Osiac, V. Parvulescu, C. Bucur, N. Cioatera, New Cryogenic and Isotope Technologies for Energy and Environment - EnergEn 2023, Băile Govora, Romania, October 18-20, 2023
75. ZIRCONIA-BASED BIOMATERIALS: FROM COMPOSITION TO STRUCTURAL STABILITY, N. Cioatera, 3RD BIOMAH CONFERENCE BIOMATERIALS AND NOVEL TECHNOLOGIES FOR HEALTHCARE OCTOBER 18-21, 2022
76. Composite electrocatalysts for solid oxide fuel cell anode, N. Cioatera, S. Somacescu, M. Mureseanu, C.I. Spinu, The 13th International Symposium of the Romanian Catalysis Society, Baile Govora, Romania, 2022

5. Proiecte de cercetare pe baza de contract/grant obținute prin competiție

5.1. Proiecte de cercetare pe baza de contract/grant obținute prin competiție internațională

1. COST Action CA22155 - Network for forest by-products charcoal, resin, tar, potash (EU-PoTaRCh). 2023-2027.

2. CEEPUS RS-1816-03-2526, Reinforcement of research, professional, and education capacities for application in sample preparation of various origins before the corresponding analysis, 2025-2026

6.2. Proiecte de cercetare pe baza de contract/grant obținute prin competiție națională

6. Contracte de interes științific și/sau economic cu parteneri din țară și din străinătate

1. Contract de transfer tehnologic de tip know – how nr. I 15/23.02.2023, 2023, finanțator Laser Art SRL
2. Contract de transfer tehnologic de tip know – how nr. I 18/27.02.2023, 2023, finanțator Laser Art SRL