
LISTA LUCRĂRILOR ȘTIINȚIFICE

Prof.univ.dr.ing.habil. Lăcrămioara Rusu

A. Teza de abilitare

Titlul tezei: “Innovative materials and processes with application in environmental protection” (susținere publică 22.09.2022).

Domeniu: Ingineria Mediului

Acordare atestat conform OME 6353/05.12.2022.

B. Teza de doctorat

Titlul tezei: „Contribuții la studiul proceselor de recuperare a unor metale din catalizatori uzati”

Conducător de doctorat: Prof.univ.dr.ing. Ion Balasanian, Facultatea de Chimie Industrială, Universitatea Tehnică „Gheorghe Asachi” din Iași

Domeniu: Inginerie Chimică

Titlul științific de doctor conferit prin OMEN nr. 3467/16.03.2001

C. Brevete de invenție

1. Nedeff, V., Ciobanu, D., Macoveanu, M., Chiriac, A, **Rusu, L.**, Simion, A.I. (2017). Ecological aerobic process for the biodegradation of the mixture formed by the use of excess by-products from the wood working industry and beer making industry, and the resulting products: ecologicalorganic biofertilizers/ Procedeu ecologic aerob de biodegradare a amestecului format din valorificarea subproduselor excedentare din industria lemnului și industria berii, cu produsele realizate; biofertilizatori organici ecologici, **RO129229-A2**, C05F 5/00 (2006.01)
2. Nedeff, V., Ciobanu, D., Macoveanu, M., Chiriac, A, **Rusu, L.**, Simion, A.I. (2017). Anaerobic biodegrading process for industrial organic by-products mixture and ecological organic biofort-type products obtained thereby/ Procedeu de biodegradare anaerob pentru amestecul format din subprodusele organice industriale și produsele tip biofort organic ecologic realizate, **RO129161-A2**, C05F 5/00 (2006.01)

C. Cărți

1. **Rusu L.**, Suceveanu E-M., Tehnologii de membrană. Considerații teoretice și aplicații., Editura Performantica, Iași, **2024**, ISBN 978-630-328-089-9, 299 pag.
2. **Rusu L.**, Ștefănescu I.A., Biotehnologii in protectia mediului. Metode de investigare, Editura Alma Mater, Bacău, **2015**, ISBN: 978-606-527-484-6, 197 pag.
3. **Rusu L.**, Harja M. Procese unitare chimice și biochimice, I. Procese unitare chimice, vol. I, Editura Pim, Iași, **2007**, ISBN general 978-973-716-744-6, ISBN 973-716-745-7, 321 pag.
4. Dabija A., **Rusu L.**, Alexa I.C., Enzimologie industrială , Editura Alma Mater, Bacau, **2007**, ISBN 978-973-1833-32-3, 192 pag.
5. **Istrati (Rusu), L.**, Harja M. Biotehnologii în protecția mediului, Ed. Tehnică – Info Chișinău, Republica Moldova, **2005**, ISBN 9975-63-147-7, 280 pag.
6. Harja M., **Istrati (Rusu) L.**, Smocot R., Tehnologia lanțurilor anorganici, Editura Tehnică, Științifică și Didactică CERMI, Iași, **2003**, ISBN 973-667-004-X, 278pag.,

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7. Miron N.D., **Istrati (Rusu) L.**, Chimie generală – Tehnici de laborator, Ed. Tehnica–Info Chișinău , Republica Moldova, **2002**, ISBN 9975-63-147-9, 218 pag.

Editor invitat (volum editat)

1. Dabija A., Codină G.G., Rusu L., Special Issue "Unconventional Raw Materials for Food Products, Applied Sciences, Ed. MDPI, 2023, ISBN 978-3-0365-8554-3 (Hbk), ISBN 978-3-0365-8555-0 (PDF), 248 pag., doi.org/10.3390/books978-3-0365-8555-0

Editor invitat

1. Dabija A., Codină G.G., **Rusu L.**, Applied Sciences (ISSN 2076-3417) FI: 2.700 (2021-2022), număr special "Unconventional Raw Materials for Food Products";
2. **Rusu L.**, Polymers (ISSN: 2073-4360), FI: 5.000 (2022-2023), număr special "Innovative Materials Based on Natural Polymers: Synthesis, Characterization and Applications,,.
3. **Rusu L.**, Polymers (ISSN: 2073-4360), FI: 5.000 (2024), număr special "Innovative Materials Based on Natural Polymers: Synthesis, Characterization and Applications, 2nd Edition"

E. Articole publicate în reviste din fluxul științific internațional principal

E.1. Articole publicate în reviste cotate ISI

1. Niță, N. T., Suceveanu, E. M., Nedeff, F. M., Tița, O., & **Rusu, L.* (2024)**. Biocomposite Material Based on *Lactococcus lactis* sp. Immobilized in Natural Polymer Matrix for Pharmaceutical Removal from Aqueous Media. *Polymers*, eISSN 2073-4360, 16(13), 1804.
<https://doi.org/10.3390/polym16131804>
WOS:001268242500001
2. Vasiliu L., Lazar L., Rusu L., Harja M. **(2024)**. Effect of alternative raw materials over clincker quality and CO₂ emissions, *Scientific Study & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, 25(3), 325-334.
WOS:001334270100008
3. Tița, O., Constantinescu, M. A., **Rusu, L.***, & Tița, M. A. **(2024)**. Natural Polymers as Carriers for Encapsulation of Volatile Oils: Applications and Perspectives in Food Products. *Polymers*, eISSN 2073-4360,16(8), 1026.
<https://doi.org/10.3390/polym16081026>
WOS:001210398300001
4. Opruța, T., Tița, M., Constantinescu, A., **Rusu, L.**, & Tița, O. **(2024)**. Characterization of *Juniperus communis* L. essential oil obtained from berries harvested from the Balkan area. *Scientific Study & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, 25(1), 91-99.
WOS:001196254200001
5. Suteu, D., Blaga, A. C., **Rusu, L.***, & Tanasa, A. M. **(2024)**. *Saccharomyces pastorianus* Residual Biomass Immobilized in a Polymer Matrix as a Biosorbent for Reactive Dye Removal: Investigations in a Dynamic System. *Polymers*, eISSN 2073-4360, 16(4), 491.
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6. Dabija A.*, **Rusu L.**, Codina G.G. (2023). Studies on the Manufacturing of Food Products Using Unconventional Raw Materials, *Applied Sciences*, eISSN: 2076-3417. 13 (13), 7990.
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7. **Rusu, L.***, Suceveanu, E. M., Blaga, A. C., Nedeff, F. M., & Șuteu, D. (2023). Insights into Recent Advances of Biomaterials Based on Microbial Biomass and Natural Polymers for Sustainable Removal of Pharmaceuticals Residues. *Polymers*, eISSN 2073-4360, 15(13), 2923.
<https://doi.org/10.3390/polym15132923>
WOS:001028305700001
 8. Țița, M. A., Constantinescu, M. A., Oprea, T. I., Bătușaru, C., **Rusu, L.***, & Țița, O. (2023). Kefir Enriched with Encapsulated Volatile Oils: Investigation of Antimicrobial Activity and Chemical Composition. *Applied Sciences*, 13(5), 2993. eISSN: 2076-3417,
<https://doi.org/10.3390/app13052993>
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 9. Daraban, G. M., **Rusu, L.***, Dinica, R. M., Roșca, M., Badeanu, M., Mihaila, M. D. I., & Suteu, D.* (2022). Exploring the Antioxidant and Bioinsecticidal Activity of Spontaneous Flora Vegetal Extracts for Plant Protection and Prevention of Soil Contamination. *Separations*, ISSN:2297-8739, 9(9), 260.
<https://doi.org/10.3390/separations9090260>
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 10. **Rusu, L. ***, Grigoraș, C. G., Simion, A. I., Suceveanu, E. M., Schnakovszky, C., & Favier, L. (2022). Investigation into Biosorption of Pharmaceuticals from Aqueous Solutions by Biocomposite Material Based on Microbial Biomass and Natural Polymer: Process Variables Optimization and Kinetic Studies. *Polymers*, eISSN 2073-4360, 14(16), 3388.
<https://doi.org/10.3390/polym14163388>
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 11. **Rusu, L.***, Grigoraș, C. G., Simion, A. I., Suceveanu, E. M., Dediu Botezatu, A. V., & Harja, M. (2022). Biosorptive Removal of Ethacridine Lactate from Aqueous Solutions by *Saccharomyces Pastorianus* Residual Bio-mass/Calcium Alginate Composite Beads: Fixed-bed Column Study. *Materials*, eISSN:1996-1944, 15(13), 4657.
<https://doi.org/10.3390/ma15134657>
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 12. **Rusu, L.***, Grigoraș, C. G., Simion, A. I., Suceveanu, E. M., Istrate, B., & Harja, M. (2022). Biosorption Potential of Microbial and Residual Biomass of *Saccharomyces pastorianus* Immobilized in Calcium Alginate Matrix for Pharmaceuticals Removal from Aqueous Solutions. *Polymers*, eISSN 2073-4360, 14(14), 2855.
<https://doi.org/10.3390/polym14142855>
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 13. **Rusu, L.***, Grigoraș, C. G., Simion, A. I., Suceveanu, E. M., Blaga, A. C., & Harja, M. (2022). Encapsulation of *Saccharomyces pastorianus* Residual Biomass in Calcium Alginate Matrix with Insights in Ethacridine Lactate Biosorption. *Polymers*, eISSN:2073-4360, 14(1), 170.;
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 14. Istrate, A. M., Dabija, A., Codină, G. G., & **Rusu, L.*** (2021). Influence of hemp flour on dough rheology and bread quality. *Scientific Study & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, 22(4), 521-531.
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 15. **Rusu, L.***, Grigoraș, C. G., Simion, A. I., Suceveanu, E. M., Șuteu, D., & Harja, M. (2021). Application of *Saccharomyces cerevisiae*/calcium alginate composite beads for cephalixin antibiotic biosorption from aqueous solutions. *Materials*, eISSN:1996-1944, 14(16), 4728.
<https://doi.org/10.3390/ma14164728>
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 16. **Rusu, L.***, Grigoraș, C. G., Suceveanu, E. M., Simion, A. I., Dediu Botezatu, A. V., Istrate, B., & Doroftei, I. (2021). Eco-friendly biosorbents based on microbial biomass and natural
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17. Horciu, L. I., Zaharia, C., Blaga, A. C., **Rusu, L.**, & Suteu, D. (2021). Brilliant Red HE-3B Dye Biosorption by Immobilized Residual Consortium *Bacillus* sp. Biomass: Fixed-Bed Column Studies. *Applied Sciences*, eISSN: 2076-3417, 11(10), 4498., <https://doi.org/10.3390/app11104498>
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18. Daraban, G. M., Zaharia, C., **Rusu, L.**, Puitel, A. C., Badeanu, M., & Suteu, D. (2021). Ultrasonic extraction for preparation of plant extracts with bioinsecticidal effects on pest from seed deposits. *Studia Universitatis Babes-Bolyai, Chemia*, ISSN:1224-7154, 66(2), 309-324., DOI:10.24193/subbchem.2021.2.27
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19. Suteu, D., **Rusu, L.**, Zaharia, C., Badeanu, M., & Daraban, G. M. (2020). Challenge of utilization vegetal extracts as natural plant protection products. *Applied Sciences*, eISSN: 2076-3417, 10(24), 8913. <https://doi.org/10.3390/app10248913>
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20. Horciu, I. L., Blaga, A. C., **Rusu, L.**, Zaharia, C., & Suteu, D. (2020). Biosorption of reactive dyes from aqueous media using the *Bacillus* sp. residual biomass. *Desalination and Water Treatment*, ISSN:1944-3994 (Print), ISSN:1944-3986(Online), 195, 353-360. doi: 10.5004/dwt.2020.25901
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21. Alio, M. A., Tugui, O. C., **Rusu, L.**, Pons, A., & Vial, C. (2020). Hydrolysis and fermentation steps of a pretreated sawmill mixed feedstock for bioethanol production in a wood biorefinery. *Bioresource technology*, ISSN:0960-8524, eISSN:1873-2976, 310, 123412. <https://doi.org/10.1016/j.biortech.2020.123412>
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22. Nica, I., Biliuta, G., Zaharia, C., **Rusu, L.**, Coseri, S., & Suteu, D. (2020). Fixed-bed-column studies for methylene blue removal by cellulose cellets. *Environmental Engineering & Management Journal (EEMJ)*, ISSN: 1582-9596, 19(2), 269-279.
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23. Dabija, A., Oroian, M., Codină, G. G., & **Rusu, L.*** (2020). Assessment the influence of the main technological factors on yogurt quality. *Scientific Study & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, 21(1), 83-94.
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24. Hultuana, E. D., Favier, L., **Rusu, L.**, Cretescu, I., Ciobanu, G., & Harja, M. (2020). Packed column simulation for CO₂ chemisorption in activated solutions. *Environmental Engineering & Management Journal (EEMJ)*, ISSN: 1582-9596, 19(2), 325-333.
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25. Vrinceanu, N., Hlihor, R. M., Simion, A. I., **Rusu, L.***, Fekete-Kertész, I., Barka, N., & Favier, L. (2019). New evidence of the enhanced elimination of a persistent drug used as a lipid absorption inhibitor by advanced oxidation with UV-A and nanosized catalysts. *Catalysts*, eISSN 2073-4344, 9(9), 761. <https://doi.org/10.3390/catal9090761>
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26. Favier, L., **Rusu, L.***, Simion, A. I., Hlihor, R. M., Pacala, M. L., & Augustyniak, A. (2019). Efficient degradation of clofibric acid by heterogeneous photocatalytic oxidation process.

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27. Acatrinei–Insuratelu, O. A., Buftia, G., Lazar, I. M., & **Rusu, L. (2019)**. Aerobic composting of mixing sewage sludge with green waste from lawn grass. *Environmental Engineering and Management Journal*, ISSN 1582-9596, eISSN:1843-3707, 18(8), 1789-1798.
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28. Suteu, D., Biliuta, G., **Rusu, L.***, Coseri, S., Vial, C., & Nica, I. (2019). A regenerable microporous adsorbent based on microcrystalline cellulose for organic pollutants adsorption. *Desalination and Water Treatment*, ISSN:1944-3994, eISSN:1944-3986, 146, 176-187., doi: 10.5004/dwt.2019.23638
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29. Harja, M., Ciobanu, G., **Rusu, L.***, & Lazăr, L. (2018). Effectiveness factor approach for chemical absorption process. *Environmental Engineering & Management Journal (EEMJ)*, ISSN 1582-9596, eISSN:1843-3707, 17(4), 813-820.
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31. Dabija, A., Codină, G. G., Gâtlan, A. M., Sănduleac, E. T., & **Rusu, L.* (2018)**. Effects of some vegetable proteins addition on yogurt quality. *Scientific Study & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, 19(2), 181-192.
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32. Dabija, A., Codină, G. G., Ropciuc, S., Gâtlan, A. M., & **Rusu, L.* (2018)**. Assessment of the antioxidant activity and quality attributes of yogurt enhanced with wild herbs extracts. *Journal of Food Quality*, ISSN: 0146-9428, eISSN: 1745-4557, 2018, 5329386.
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35. **Rusu, L.***, Suceveanu, M., Șuteu, D., Favier, L., & Harja, M. (2017). Assessment of groundwater and surface water contamination by landfill leachate: a case study in Neamt county, Romania. *Environmental Engineering & Management Journal (EEMJ)*, ISSN 1582-9596, eISSN:1843-3707, 16(3), 633-641.
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36. Suteu, D., Coseri, S., & **Rusu, L. (2016)**. Kinetics studies on the adsorption behaviour of Basic Blue 9 dye on macroporous ion exchanger resins. *Desalination and Water Treatment*, ISSN:1944-3994, eISSN:1944-3986, 57(31), 14665-14673.
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39. **Rusu, L.***, Harja, M., Suteu, D., Dabija, A., & Favier, L. (2016). Pesticide residues contamination of milk and dairy products. A case study: Bacau district area, Romania. *Journal of Environmental Protection and Ecology*, ISSN:1311-5065, 17(3), 1229-1241.
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40. Dumitrescu, A. M., Jucan, V., **Rusu, L.**, Iordan, A. R., & Palamaru, M. N. (2015). The peat-template agent for Ni ferrite obtainment. *Revue Roumaine de Chimie*, ISSN: 0035-3930, 60(11-12), 1033-1037.
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41. Favier, L., Simion, A.I., **Rusu, L.**, Pacala, M. L., Grigoras, C., & Bouzaza, A. (2015). Removal of an organic refractory compound by photocatalysis in batch reactor-kinetic studies. *Environmental Engineering & Management Journal (EEMJ)*, ISSN 1582-9596, eISSN:1843-3707, 14(6), 1327-1328. DOI:10.30638/eemj.2015.144
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42. Kadmi, Y., Favier, L., Harja, M., Ionut Simion, A., **Rusu, L.**, & Wolbert, D. (2015). A new strategy for pentachlorophenol monitoring in water samples using ultra-high performance liquid chromatography-mass spectrometry tandem. *Environmental Engineering & Management Journal (EEMJ)*, ISSN 1582-9596, eISSN:1843-3707, 14(3), 567-574.
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43. Suteu, D., Biliuta, G., **Rusu, L.**, Coseri, S., & Nacu, G. (2015). Cellulose Cellets as new type of adsorbent for the removal of dyes from aqueous media. *Environmental Engineering & Management Journal (EEMJ)*, ISSN 1582-9596, eISSN:1843-3707, 14(3), 525-532. DOI:10.30638/eemj.2015.056
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44. **Rusu, L.***, Harja, M., Simion, A. I., Suteu, D., Ciobanu, G., & Favier, L. (2014). Removal of Astrazone Blue from aqueous solutions onto brown peat. Equilibrium and kinetics studies. *Korean Journal of Chemical Engineering*, ISSN: 0256-1115, eISSN: 1975-7220, 31(6), 1008-1015. DOI:10.1007/s11814-014-0009-3
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45. Ciobanu, G., Harja, M., **Rusu, L.**, Mocanu, A. M., & Luca, C. (2014). Acid Black 172 dye adsorption from aqueous solution by hydroxyapatite as low-cost adsorbent. *Korean Journal of Chemical Engineering*, ISSN: 0256-1115, eISSN: 1975-7220, 31(6), 1021-1027. DOI:10.1007/s11814-014-0040-4
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46. **Rusu, L.***, Harja, M., Munteanu, C., Ciobanu, G., & Suteu, D. (2014). Red and brown peat use in removing pollutants from municipal and industrial wastewater. *Journal of Environmental Protection and Ecology*, ISSN 1311-5065, 15(4), 1690-1699.
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47. Buema, G., Cimpeanu, S. M., Sutiman, D., Bucur, R. D., **Rusu, L.**, Cretescu, I., Ciocinta, R.C. & Harja, M. (2013). Lead removal from aqueous solution by bottom ash. *Journal of Food, Agriculture & Environment*, ISSN 1459-0255, 11(1), 1137-1141.
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48. Simion, A. I., Dobrovici, P. E., **Rusu, L.***, Favier-Teodorescu, L., & Ciobanu, D. (2012). Mathematical modelling of the process of sugar beet pulp valorisation by acid hydrolysis. *Revue Roumaine de Chimie*, ISSN: 0035-3930, 57(11), 915-920.
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49. Suteu, D., & **Rusu, L.** (2012). Removal of methylene blue dye from aqueous solution using seashell wastes as biosorbent. *Environmental Engineering & Management Journal (EEMJ)*, ISSN 1582-9596, eISSN:1843-3707, 11(11), 1977-1985.
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50. Simion, A. I., Grigoraș, C. G., **Rusu, L.**, & Gavrilă, L. (2012). Modeling of the thermo-physical properties of liquids involved in food processing. *Environmental Engineering & Management Journal (EEMJ)*, ISSN 1582-9596, eISSN:1843-3707, 11(11), 2035-2045.
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51. Simion, A. I., Dobrovici, P. E., **Rusu, L.**, Gavrilă, L., & Ciobanu, D. (2012). New possibilities for the valorization of sugar industry by-products. *Revue Roumaine de Chimie*, ISSN: 0035-3930, 57(6), 577-586.
WOS:000320072100004
52. Harja, M., **Rusu, L.***, Bucur, D., & Ciocinta, R. C. (2012). Fly ash-derived zeolites as adsorbents for Ni removal from wastewater. *Revue Roumaine de Chimie*, ISSN: 0035-3930, 57(6), 587-597.
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53. Ciocinta, R. C., Harja, M., Bucur, D., **Rusu, L.**, Barbuta, M., & Munteanu, C. (2012). Improving soil quality by adding modified ash. *Environmental Engineering and Management Journal*, ISSN 1582-9596, eISSN:1843-3707, 11(2), 297-305.
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54. Harja, M., Barbuta, M., **Rusu, L.**, Munteanu, C., Buema, G., & Doniga, E. (2011). Simultaneous removal of astrazone blue and lead onto low cost adsorbents based on power plant ash. *Environmental Engineering & Management Journal (EEMJ)*, ISSN 1582-9596, eISSN:1843-3707, 10(3), 341-347.
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55. Harja, M., Ciocîntă, R. C., Barbuta, M., **Rusu, L.**, Simion, A. I., & Bistricianu, I. L. (2010). CaCO₃ controllable synthesis by double exchange method using CaCl₂ residual solutions. *Environmental Engineering & Management Journal (EEMJ)*, ISSN 1582-9596, eISSN:1843-3707, 9(11), 1571-1577.
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56. Harja, M., Cretescu, I., **Rusu, L.**, & Ciocinta, R. C. (2009). The influence of experimental factors on calcium carbonate morphology prepared by carbonation. *Revista de Chimie*, ISSN:0034-7752, 60(12), 1258-1263.
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57. Harja, M., Bărbuță, M., **Rusu, L.**, & Apostolescu, N. (2008). Utilization of coal fly ash from power plants I. Ash characterization. *Environmental Engineering & Management Journal (EEMJ)*, ISSN 1582-9596, eISSN:1843-3707, 7(3), 289-294.
DOI:10.30638/eemj.2008.037 **WOS:000257826200016**

Notă: *- autor principal (prim autor/corespondent)

E.2. Articole publicate în reviste indexate în baze de date internaționale (BDI)

1. Turcov, D., Zbranca, A., Rusu, L., & Șuteu, D. (2021). Lycopene–Background, perspectives and challenges in dermato-cosmetic formulas. *Bull. Polytech. Inst. Iasi Sect. Chem. Chem. Eng*, 67 (71), No. 2, 9-21.
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F. Articole publicate în proceedings sau volume ale conferințelor internaționale

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G. Alte lucrări și contribuții științifice

G.1. Articole publicate în volume ale conferințelor naționale cu participare internațională

1. Ciobanu, D., **Rusu L.**, Simion, A.I., Geangalau, S., (2009). Functional food and quality of life. The effect of some dietetic bakery products on the human health, Proceedings of Congress of the Academy of Romanian Scientist "Quality of Life", Timișoara, România (ISBN: 978-973-638-410-3), p. 121-128.

G.2. Prezentarea de lucrări științifice la conferințe internaționale (selecție 2012-2024)

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62. **Rusu, L.**, Harja, M., Favier, L., Grigoras, C., Simion A., Suteu, D., (2012). Utilisation de la tourbe rouge et brune pour l'enlèvement des polluants des eaux usees municipales et industrielles, 7^{ème} Colloque Franco-Roumain de Chimie Appliquée COFrRoCA 2012, Bacău, 27-29 iunie 2012, www.cofroca.org, Publicare*: Actes du 7^{ème} Colloque Franco-Roumain de Chimie Appliquée COFrRoCA 2012, Alma Mater publishing House – Bacau, ISSN 2068-6382, 2012, p 187-188

G.3. Prezentarea de lucrări științifice la conferințe naționale cu participare internațională

1. Niță N. T., Suceveanu E. M., **Rusu L. ***, (2023). Biocomposite material based on Lactococcus Lactis – A new challenge in biosorption processes, Conference 'Ecology and Protection of Ecosystems' the XIVth Edition, 2nd – 4th of November 2023, Bacau, Romania, <https://epe.ub.ro/rezumate/EPE14.pdf>
2. Niță N. T., Suceveanu E. M., Nedeff F.M., **Rusu L.**, (2024). Kinetic studies of Ethacridine lactate biosorption from aqueous solutions using Lactococcus Lactis/calcium alginate system as biosorbent, „Zilele Școlii Doctorale – Inovare și Cercetare Doctorală”, 20-25 Mai 2024, Bacau, Romania.

G.4. Contracte de cercetare științifică

Director de proiect

1. **Soluții inovative și sustenabile pentru valorificarea deșeurilor de lemn rezultate de la fabricarea mobilei în vederea integrării în economia circulară**, (Acronim SustenWood) Contract de cercetare nr. 2/2024 (nr. înregistrare beneficiar 46/20.02.2024; nr. înregistrare executant 2738/22.02.2024), Beneficiar: SC WOODGRADE SRL, Executant: Universitatea „Vasile Alecsandri” din Bacău, Valoare contract = 57000 lei, Perioada: **2024-2025**
2. **Obținerea de Materiale cu Valoare Adaugată prin Valorificarea Subproduselor Industriale (AddValueMat)**, PN-III-P2-2.1-PED-2019-1063, Contract finanțare: **490PED / 2020**, Valoare contract = 200 000 lei, Perioada: **2020-2022**
3. Studiu privind influența factorilor poluanți de la S.C.PAL EKC S.R.L. asupra mediului, Nr. 3318 / 09.05.2005, 2005 – 2006
4. Obținerea unui îngrășământ ecologic pentru zonele montane. Grant de cercetare științifică, Beneficiar MCT, 1999.
5. Îngrășăminte lichide cu efect fungicid pentru cultura viței de vie și a pomilor fructiferi. Grant de cercetare științifică, Beneficiar MCT, 1997-1998.
6. Elaborarea tehnologiilor de recuperare a cuprului și magneziului și de obținere a stearatului de magneziu prin valorificarea catalizatorului uzat Cu-Mg-Al₂O₃; Contract de cercetare științifică, Beneficiar. SC Fibrex SA Săvinești, 1993-1995.
7. Tehnologie de obținere a auxiliarelor pentru industria firelor și fibrelor sintetice, a prelucrării maselor plastice și a cauciucului. Grant de cercetare științifică, Beneficiar MCT, 1993-1994.
8. Valorificarea catalizatorului uzat de la fabricarea margarinei, Grant de cercetare științifică, Beneficiar MCT, 1993.

Membru în echipă

1. Environment and wastes – Sustainable development and wastes, No. 3/376/30.07.2007, Valoare =11000 lei, 2007 – 2008.
2. Elaborarea unor tehnologii de obținere de îngrășăminte chimice, corelată cu cercetările privind procesul de degradare și tehnologiile de conservare a solurilor din Podișul Moldovei. Contract de cercetare științifică, Beneficiar Comisia teritorială inter-disciplinară pentru cercetare –dezvoltare MOLDOVA I, Iași, 1998.
3. Obținerea unor compuși pentru sertizarea semințelor cu efect nutritiv, stimulent și antidăunător. Grant de cercetare științifică, Beneficiar Ministerul Cercetării și Tehnologiei, 1996-1997,
4. Valorificarea deșeurilor menajere din marile aglomerări urbane pentru obținerea unor îngrășăminte tip compost. Grant de cercetare științifică, Beneficiar Ministerul Cercetării și Tehnologiei, 1995-1997.
5. Valorificarea carbonatului de calciu rezidual de la obținerea îngrășămintelor complexe în industria farmaceutică și cosmetică. Grant de cercetare științifică, Beneficiar Ministerul Cercetării și Tehnologiei, 1995-1996.
6. Tehnologie de obținere a extractelor din plante pentru industria alimentară și cosmetică. Grant de cercetare științifică, Beneficiar Ministerul Cercetării și Tehnologiei, 1994-1995.
7. Obținerea unui îngrășământ azotos pentru utilizare în horticultură și legumicultură. Grant de cercetare științifică, Beneficiar Ministerul Cercetării și Tehnologiei, 1994-1995.
8. Soluție tehnologică privind modificarea tehnologiei de fabricare a îngrășămintelor cu fosfor prin atac nitric în vederea eliminării deșeurilor de carbonat de calciu. Grant de cercetare științifică, Beneficiar Ministerul Cercetării și Tehnologiei, 1994-1995.
9. Valorificarea catalizatorului uzat Zn-Cr în vederea reintroducerii lui în circuitul economic. Contract de cercetare științifică. Beneficiar SC Fibrex SA Săvinești, 1993-1994.
10. Obținerea îngrășămintelor azotoase cu un conținut de maxim 2% Zn. Grant de cercetare științifică, Beneficiar Ministerul Cercetării și Tehnologiei, 1992-1993.

Contracte de dezvoltare – finanțate de Uniunea Europeană**Manager proiect**

1. Titlu proiect: „Parteneriat pentru stagii de practică - Primul pas pentru o carieră în industria alimentară” Cod SMIS 108612, Programul Operațional Capital Uman 2014-2020, Axa prioritară 6, Obiectivul tematic 10, Prioritatea de investiții 10.iv, OS. 6.13 și 6.14, Apel nr. POCU/90/6.13/6.14– Stagii de practică elevi și studenți în sectorul agroalimentar, industrie și servicii.” **ID Cod SMIS 2014+:108612.**

Contract de finanțare nr: **POCU/90/6.13/6.14/108612/05.07.2018** (49063/05.07.2018), Perioada: **2018-2020**, Valoare = **621 259,51 lei**

Contracte de dezvoltare**Membru în echipă**

1. Titlu proiect: „Consolidarea strategiei de internaționalizare a UBc prin extinderea parteneriatelor și intensificarea mobilității academice”, Acronim **Inter_Connect_ UBc**; Contract de finanțare nr: CNFIS-FDI - 2023-0055, Perioada: **2023**, Valoare = **380.000 lei**.

Bacău

20.03.2025

Prof.univ. dr.ing.habil. Lăcrămioara Rusu