

Lista lucrărilor științifice (selecție) Conf.univ.dr.ing Lăcrămioara Rusu

Articole publicate în reviste cotate ISI

1. **Rusu L.***, Grigoras C.G.*, Simion A.I., Suceveanu E.M., Blaga A.C., Harja M.*, Encapsulation of *Saccharomyces pastorianus* Residual Biomass in Calcium Alginate Matrix with Insights in Ethacridine Lactate Biosorption, *Polymers*, 2022, ISSN: 2073-4360, 14(1), 170; <https://doi.org/10.3390/polym14010170>
2. Istrate Ana M., Dabija A., Codină G. G., **Rusu L. ***, Influence of hemp flour on dough rheology and bread quality, *Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry*, 2021, ISSN 1582-540X, 22 (4), p. 521 – 531
3. **Rusu L.***, Grigoras, CG., Simion, AI., Suceveanu, EM., Suteu, D., Harja, M., Application of *Saccharomyces cerevisiae*/Calcium Alginate Composite Beads for Cephalixin Antibiotic Biosorption from Aqueous Solutions, *MATERIALS*, 2021, eISSN:1996-1944, 14(16), Article number:4728, p.1-15
4. **Rusu, L.***, Grigoras, CG., Suceveanu, EM., Simion, AI., Botezatu, AVD., Istrate, B., Doroftei, I., Eco-Friendly Biosorbents Based on Microbial Biomass and Natural Polymers: Synthesis, Characterization and Application for the Removal of Drugs and Dyes from Aqueous Solutions, *MATERIALS*, 2021, eISSN:1996-1944, 14(17), Article number:4810, p.1-15
5. Horciu, L. I., Zaharia, C., Blaga, A.C., **Rusu, L.**, Suteu, D., Brilliant Red HE-3B Dye Biosorption by Immobilized Residual Consortium *Bacillus* sp. Biomass: Fixed-Bed Column Studies, *APPLIED SCIENCES-BASEL*, 2021, eISSN:2076-341711, (10), Article number:4498
6. Daraban, G.M., Zaharia, C., **Rusu, L.**, Puitel, A.C., Badeanu, M., Suteu, D., Ultrasonic extraction for preparation of plant extracts with bioinsecticidal effects on pest from seed deposits, *STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA*, 2021, ISSN:1224-7154, 66(2), p.309-324
7. Suteu D., **Rusu L.**, Zaharia C., Badeanu M., Daraban G. M., Challenge of Utilization Vegetal Extracts as Natural, Plant Protection Products – Review, *Applied Sciences-Basel*, 2020, ISSN: eISSN: 2076-3417, 10 (24), article number 8913; DOI:10.3390/app10248913
8. Horciu, I.L., Blaga A.C., **Rusu L.**, Zaharia C., Suteu D., Biosorption of reactive dyes from aqueous media using the *Bacillus* sp. residual biomass, *Desalination and Water Treatment*, 2020, ISSN:1944-3994 (Print), ISSN(Online):1944-3986, Vol: 195, p: 353-360, DOI: 10.5004/dwt.2020.25901
9. Abdou Alio M., Tugui O. C., **Rusu L.**, Pons A., Vial C., Hydrolysis and fermentation steps of a pretreated sawmill mixed feedstock for bioethanol production in a wood biorefinery, *Bioresource Technology*, 2020, 310 (2020) 123412
<https://doi.org/10.1016/j.biortech.2020.123412>
10. Nica, I., Biliuta, G., Zaharia, C., **Rusu, L.**, Coseri, S., Suteu, D., Fixed-bed-column studies for methylene blue removal by cellulose cellets *Environmental Engineering and Management Journal*, 2020, ISSN: 1582-9596, Volume: 19, Issue: 2, Pages: 269-279,
11. Dabija A., Oroian M., Codină G. G., **Rusu L.*** Assessment the influence of the main technological factors on yogurt quality, *Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry*, 2020, ISSN 1582-540X, 21 (1), pp. 083 – 094
12. Hultuana E. D., Favier L., **Rusu L.**, Cretescu I., Ciobanu G., Harja M., Packed column simulation for CO₂ chemisorption in activated solutions, *Environmental Engineering and Management Journal*, 2020, ISSN: 1582-9596, 19(2), p.325-333
13. Vrinceanu N., Hlihor R.M., Simion A. I., **Rusu L.**, Fekete-Kertész I., Barka N., Favier L., 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* 2019, ISSN

- 2073-4344; CODEN:CATACJ, 9, 761, 21 p.; Catalysts — Open Access Journal, doi:10.3390/catal9090761,
14. Favier L., Rusu L., Simion A.I., Hlihor R.M., Pacala M.L., Augustyniak A., Efficient degradation of clofibric acid by heterogeneous photocatalytic oxidation process, *Environmental Engineering and Management Journal*, 2019, ISSN 1582-9596, 18 (8), 1683-1692
 15. Acatrinei–Insuratelu O., Buftia G., Lazar I.M., Rusu L., Aerobic composting of mixing sewage sludge with green waste from lawn grass, *Environmental Engineering and Management Journal*, 2019, ISSN 1582-9596, 18 (8), 1789-1798
 16. Suteu D., Biliuta G., Rusu L., Coseri S., Vial C., Nica (Nebunu) I., A regenerable microporous adsorbent based on microcrystalline cellulose for organic pollutants adsorption, *Desalination and Water Treatment*, **2019**, ISSN:1944-3994 (Print), ISSN(Online):1944-3986, 146, 176–187, doi: 10.5004/dwt.2019.23638
 17. Dabija, A., Codină G.G., Gătlan A.M., **Rusu L.**, Quality assessment of yogurt enriched with different types of fibers, *CyTA - Journal of Food*, **2018**, ISSN: 1947-6337, 16 (1), 859-867
 18. Dabija, A., Codină G.G., Ropciuc S., Gătlan A.M., **Rusu L.**, Assessment of the Antioxidant Activity and Quality Attributes of Yogurt Enhanced with Wild Herbs Extracts, *Journal of Food Quality*, **2018**, ISSN: 0146-9428, Article ID 5329386, 12 pages, <https://doi.org/10.1155/2018/5329386>
 19. Dabija A., Codină G.G., Gătlan A.M., Todosi Sănduleac E., **Rusu L.**, Effects of some vegetable proteins addition on yogurt quality, *Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry*, **2018**, ISSN 1582-540X, 19 (2), 181-192
 20. Harja M., Ciobanu G., **Rusu L.**, Lazăr L., Effectiveness factor approach for chemical absorption process, *Environmental Engineering and Management Journal*, **2018**, ISSN: 1582-9596, 17(4), 813-820
 21. **Rusu, L.**, Suceveanu, M., Şuteu, D., Favier L., Harja, M., Assessment of groundwater and surface water contamination by landfill leachate: A case study in Neamt County, Romania, *Environmental Engineering and Management Journal*, **2017**, ISSN: 1582-9596, 16 (3), 633-641
 22. Ciobanu,G., Harja, M., **Rusu, L.**, Biomimetic hydroxyapatite-silver coatings on titanium surfaces, *Revue Roumaine de Chimie*, **2017**, ISSN: 0035-3930, 62(4-5), 449-454
 23. Kadmi, Y., Favier, L., Simion, A.I., **Rusu, L.**, Pacala, M.L., Wolbert, D., Measurement of pollution levels of N-nitroso compounds of health concern in water using ultra-performance liquid chromatography-tandem mass spectrometry, *Process Safety and Environmental Protection*, **2017**, ISSN:0957-5820 , 108, 7-17
 24. **Rusu, L.**, Harja, M., Suteu, D., Dabija A., Favier, L., Pesticide residues contamination of milk and dairy products. A case study: Bacau district area, Romania, *Journal of Environmental Protection and Ecology*, **2016**, ISSN 1311-5065, 17(3), 1229–1241
 25. Favier, L., Harja, M., Simion, A.I., **Rusu, L.**, Kadmi, Y., Pacala, M. L., Bouzaza, A., Advanced oxidation process for the removal of chlorinated phenols in aqueous suspensions, *Journal of Environmental Protection and Ecology*, **2016**, ISSN 1311-5065, 17(3), 1132–1141
 26. Suteu D., Zaharia C., Popovici C., Malutan T., **Rusu L.**, Tabacaru L., Wood waste as a renewable source of energy, *Environmental Engineering and Management Journal*, **2016**, ISSN 1582-9596, 15 (3), 665-673,
 27. Dumitrescu, A.M., Jucan. V., **Rusu L.**, Iordan, A.R., Palamaru M.N., The peat – template agent for Ni ferrite obtainment, *Revue Roumaine de Chimie*, **2015**, ISSN 0035-3930, 60(11-12), 1033-1037,
 28. Suteu D., Biliuta G., **Rusu L.**, Coseri S. , Nacu G., Cellulose cellets as new type of adsorbent for the removal of dyes from aqueous media, *Environmental Engineering and Management Journal*, **2015**, ISSN: 1582-9596, 14 (3), 525-532,
 29. Şuteu D., Coşeri S., **Rusu L.**, Kinetics studies on the adsorption behaviour of Basic Blue 9 dye on macroporous ion exchanger resins, *Desalination and Water Treatment*, **2016**, ISSN:1944-3994 (Print), ISSN(Online):1944-3986, 57, 14665-14673,

30. Favier, L., Simion, A.I., **Rusu, L.**, Pacala, M.L., Grigoraş, C.-G., Bouzaza, A., Removal of an organic refractory compound by photocatalysis in batch reactor – A kinetic study, *Environmental Engineering and Management Journal*, **2015**, ISSN: 1582-9596, 14 (6), 1327-1328,
31. Kadmi, Y., Favier, L., Harja, M., Simion, A.I., **Rusu, L.**, Wolbert, D., A New Strategy for Pentachlorophenol Monitoring in Water Samples Using Ultra-High Performance Liquid Chromatography-Tandem Mass Spectrometry, *Environmental Engineering and Management Journal*, **2015**, ISSN: 1582-9596, 14 (3), 567-574,
32. **Rusu, L.**, Harja, M., Simion, A.I., Suteu, D., Ciobanu, G., Favier, L., Removal of Astrazone Blue from aqueous solutions onto brown peat. Equilibrium and kinetics studies, *Korean J. Chem. Eng.*, **2014**, ISSN 0256-1115, 31(6), 1008 -1015,
33. Ciobanu, G., Harja, M., **Rusu, L.**, Mocanu, A.M., Luca, C., Acid Black 172 dye adsorption from aqueous solution by hydroxyapatite as low-cost adsorbent, *Korean J. Chem. Eng.*, **2014**, ISSN 0256-1115, 31(6), 1021 -1027,
34. **Rusu, L.**, Harja, M., Munteanu, C., Ciobanu, G., Suteu, D., Red and brown peat use in removing pollutants from municipal and industrial wastewater, *Journal of Environmental Protection and Ecology*, **2014**, ISSN 1311-5065, 15 (4), p. 1690 -1699,
35. Buema, G., Cîmpeanu, S. M., Sutiman, D., Bucur, R.D., **Rusu, L.**, Creţescu, I., Ciocinta, R.C., Harja, M., Lead removal from aqueous solution by bottom ash, *Journal of Food, Agriculture & Environment-JFAE*, , **2013**, ISSN 1459-0255, Vol 11. (1) , 1137-1141,
36. Suteu D., **Rusu L.**, Removal of methylene blue dye from aqueous solution using seashell wastes as biosorbent, *Environmental Engineering and Management Journal*, **2012**, ISSN 1582-9596, 11 (11), 1977-1985,
37. Simion, A. I., Grigoras, C. G., **Rusu, L.**, Gavrilă, L., Modeling of the thermo-physical properties of liquids involved in food processing, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **2012**, 11 (11), 2035-2045,
38. Ciocîntă, R.C., Harja, M., Bucur, D., **Rusu, L.**, Barbuta M., Munteanu C. Improving soil quality by adding modified ash, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **2012**, 11 (2), 297-305.
39. Simion, A.I., Dobrovici, P.E., **Rusu, L.**, Favier Teodorescu L., Ciobanu D., Mathematical modeling of the process of sugar beet pulp valorisation by acid hydrolysis, *Revue Roumaine de Chimie*, ISSN 0035-3930, **2012**, 57(11), 915-920,
40. Simion, A.I., Dobrovici, P.E., **Rusu, L.**, Gavrilă, L., Ciobanu, D., New possibilities for the valorization of sugar industry by-products, *Revue Roumaine de Chimie*, ISSN 0035-3930, **2012**, 57(6), 577-586,
41. Harja, M., **Rusu, L.**, Bucur, D., Munteanu, C., Ciocîntă R.C., Fly ash-derived zeolites as adsorbents for Ni removal from waste water, *Revue Roumaine de Chimie*, ISSN 0035-3930, **2012**, 57(6), 587-597,
42. Harja M., Barbuta M., **Rusu L.**, Munteanu C., Buema G., Doniga G., Simultaneous removal of astrazone blue and lead onto low cost adsorbents based on power plant ash, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **2011**, 10(3), 341-347,
43. Harja M., Ciocîntă R.C., Bărbuță M., **Rusu L.**, Simion A.I., Bistriceanu I.L., CaCO₃ controllable synthesis by double exchange method using CaCl₂ residual solutions, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **2010**, 9(11), 1571-1577,
44. Harja M., Creţescu I., **Rusu L.**, Ciocinta R. C. The influence of experimental factors on calcium carbonate morphology prepared by carbonation, *Revista de chimie*, ISSN 0034-7752, **2009**, 60(12), 1258-1263,
45. Harja M., Bărbuță M., **Rusu L.**, Apostolescu N. Utilization of coal fly ash from power plants. I. Ash characterization, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **2008**, 7(3), 289-294,

Brevete de invenție

1. Nedeff, V., Ciobanu, D., Macoveanu, M., Chiriac, A., Rusu, L., Simion, A.I., 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, **2017, RO129229-A2, C05F 5/00 (2006.01)**
2. Nedeff, V., Ciobanu, D., Macoveanu, M., Chiriac, A., Rusu, L., Simion, A.I., 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, **2017, RO129161-A2, C05F 5/00 (2006.01)**

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

1. Daraban G., Badeanu M., Rusu L., Suteu D., (2018), Biopesticides a new challenge in assuring food quality and sustainable agriculture, *Lucrări Științifice USAMV Iași, Seria Horticultură*, ISSN - L = 1454 – 7376, (Print) ISSN = 1454 – 7376, (Online) = ISSN 2069 – 8275, (CD-ROM) = ISSN 2069 - 847X, 61 (1), p. 269-274
2. Daraban G., Badeanu M., Rusu L., Suteu D., (2018), Researches on the biopesticides obtained by extraction with non-toxic solvents and the insecticide effect on deposit pests, *Bul. Inst. Polit. Iași, Secția Chimie și Inginerie Chimică*, ISSN: 0254-7104, Vol. 64 (68), Nr. 2, p.33-41
3. Harja, M., Ciobanu, G., Favier, L., Bulgariu L., Rusu, L., (2016) Adsorption of crystal violet dye onto modified ash, *Buletinul Institutului Politehnic din Iași Chimie Și Inginerie Chimică*, ISSN: 0254-7104, Vol. 62 (66), No 1, 27-37
4. Simion, A.I., Dobrovici, P., Rusu L., Gavrilă, L., (2011), Modeling of the Thermo-Physical Properties of Grapes Juice III. Viscosity and Heat Capacity, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry* (ISSN 1582-540X), **XII** (4), p. 409-420;
5. Simion, A.I., Grigoraș C.G., Rusu L., Dabija, A., (2011), Modeling of the Thermo-Physical Properties of Aqueous Sucrose Solutions II. Boiling Point, Specific Heat Capacity and Thermal Conductivity, *Food and Environment Safety* (ISSN 2068-6609), **X** (4);
6. Grigoraș C.G., Simion, A.I., Rusu L., Gavrilă, L., (2011), Mathematical Modeling of Moisture Loss during Apple Cubes Dehydration, *Annals. Food Science and Technology* (ISSN 2065-2828), **12** (2), p. 216-220;
7. Simion, A.I., Dobrovici, P., Grigoraș C.G., Rusu L., (2011), Modeling of the Thermo-Physical Properties of Aqueous Sucrose Solutions I. Density and Dynamic and Kinematic Viscosity, *Annals. Food Science and Technology* (ISSN 2065-2828), **12** (2), p. 225-232;
8. Harja M., Bărbuță M., **Rusu L.** Obtaining and characterization of the polymer concrete with fly ash, *Journal of Applied Sciences*, ISSN 1812-5662, **2009**, 9(1), 88-96,
9. Simion, A.I., Grigoraș, C.G., **Rusu, L.**, Gavrilă, L. Modeling of the thermo-physical properties of grapes juice II. Boiling point and density, *Studii și cercetări științifice: Chimie și inginerie chimică – Biotehnologii – Industrie alimentară* (ISSN 1582-540X), vol. X, nr. 4, 365-374, (2009)
10. Simion, A.I., Patriciu O.-I., **Rusu, L.**, Gavrilă, L. Mathematical modeling of vitamin C losses in lemons during thermal treatments, *Studii și cercetări științifice: Chimie și inginerie chimică – Biotehnologii – Industrie alimentară* (ISSN 1582-540X), vol. X, nr. 4, 375-384, (2009)
11. Simion, A.I., Dobrovici, P., **Rusu, L.**, Gavrilă, L. Modeling of the thermo-physical properties of grapes juice I. Thermal conductivity and thermal diffusivity, *Annals. Food Science and Technology* (ISSN 2065-2828), vol. 10, nr. 2, 363-368, (2009)
12. Simion, A.I., **Rusu, L.**, Ștefănescu, I., Gavrilă, L. Influence of various thermal treatments over vitamin C content in lemons, *Studii și cercetări științifice: Chimie și inginerie chimică – Biotehnologii – Industrie alimentară* (ISSN 1582-540X), vol. IX, nr. 4, 519-530, (2008)

13. Ciobanu D., **Istrati L.**, Leonte M., Ionașcu D. Studies regarding bakery products obtaining with barley bran supplement, *Journal of Agroalimentary Processes and Technologies*, vol. XIII nr. 2, ISSN 1453-1399, p. 249-256, (2007)
14. **Istrati L.**, Ciobanu D., Harja M., Ionașcu D. Researches regarding inorganic accelerators using in pomace fermenting process, *Journal of Agroalimentary Processes and Technologies*, vol. XIII nr. 2, ISSN 1453-1399, p. 241-248, (2007)
15. Harja M., Suteu D., Ciobanu G., **Rusu L.** Materials based on ash for environmental protection. I. Obtaining and characterization, *Academic Journal of the Faculty of Agriculture, "Ion Ionescu de la Brad" Iași, seria Agronomie*, vol. 9(50/2007), ISSN 1454-7414, p.17-22, (2007)
16. **Rusu L.**, Topliceanu L., Harja M., Dabija A. Study regarding biological contamination of soil with municipal solid wastes, *Modelling and optimization in the machines building field, MOCM -13*, vol.3, ISSN 1224-7480, p. 241-244, (2007)
17. Harja M., **Rusu L.**, Brandabur F., Harja C. Research concerning the purification of the wastewater resulted from the galvanic processes. I. The retention of the Zn ions resulted, *Modelling and optimization in the machines building field, MOCM -13*, vol. 2, ISSN 1224-7480, p. 321-326, (2007)
18. **Istrati L.**, Ciobanu G., Harja M., Gavrilă L., Ceunaș R. Study concerning microbiological contamination of cheese, *Journal of Agroalimentary Processes and Technologies*, vol. XII nr. 1, ISSN 1453-1399, p. 75-82, (2006)
19. Ciobanu G., **Istrati L.**, Carja G., Harja M. Etude du colmatage des membranes, *Scientific study & research*, vol. VII (2), ISSN 1582-540X, p. 397-404, (2006)
20. **Istrati L.**, Gavrilă L., Harja M., Ciobanu G., Ciocan M. Obtention de produits de haute purete par valorisation de dechets industriels: Obtention de poudre de nickel metallique, *Scientific study & research*, vol. VII (3), ISSN 1582-540X , p. 637-642, (2006)
21. **Istrati L.**, Gavrilă L., Harja M., Ciobanu G., Ciocan M. Valorisation du catalyseur Ni-Cr utilise pour l'hydrogenation du phenol , *Scientific study & research*, vol. VII (3), ISSN 1582-540X p. 643-648, (2006)
22. Ciobanu G., Cârjă G, Harja M., **Istrati L.** The formation mechanisms of polymeric membranes by phase separation, *Analele Universității " Ovidius", Seria: Chimie*, vol.XVII, ISSN 1223-7221, p. 111-114, (2006)
23. Ciobanu G., Cârjă G, **Istrati L.**, Harja M., Fouling of polymeric membranes, *Analele Universității " Ovidius", Seria: Chimie*, vol.XVII, ISSN 1223-7221, p.115-118, (2006)
24. Harja M., **Istrati L.**, Ciobanu G. New correlations for gas holdup in bubble column reactors, *Analele Universității " Ovidius", Seria: Chimie*, vol.XVII, ISSN 1223-7221, p.156-159, (2006)
25. Harja M., **Istrati L.**, Ciobanu G. Gypsum dewatering technologies at flue gas desulfurization plants, *Analele Universității " Ovidius", Seria: Chimie*, vol.XVII, ISSN 1223-7221, p. 160-163, (2006)
26. **Istrati L.**, Harja M., Ciobanu G., Gavrilă L. Mo recovery from spent hydrofining catalysts I. The choice of the extraction method, *Analele Universității " Ovidius", Seria: Chimie*, vol.XVII, ISSN 1223-7221, p.164-167, (2006)
27. Ciobanu G., **Istrati L.**, Harja M. Water desalination by cellulose acetate membrane, *Analele Universității " Ovidius", Seria: Chimie*, vol.XVI, nr.2, ISSN 1223-7221, p.273-276, (2005)
28. Gavrilă L., Fînaru A., **Istrati L.**, Simion A. I., Ciocan M. E. Influence of temperature, fat and water content on the thermal conductivity of some dairy products, *Scientific researches: Agroalimentary processes and technologies*, vol. XI nr. 1, Ed. Agroprint, Timișoara, ISSN 1453-1399, p. 205-210, (2005)
29. Ciobanu G., Harja M., **Istrati L.** Cellulose acetate membrane used in removal of heavy metals from wastewater, *Analele Universității "Ovidius", Seria: Chimie*, vol.XVI, nr.2, ISSN 1223-7221, p.277-280, (2005)
30. **Istrati L.**, Ciobanu G., Gavrilă L., Harja M., Ungureanu G.D. Modelling and simulating termical dehydration process of the serum, *Analele Universității din Craiova, Secțiunile: Biologie, Horticultură, Tehnologia prelucrării produselor agricole, Ingineria mediului*, vol. X (XLVI), ISSN 1435-1275, p. 349-354, (2005),

31. Ștefănescu I., **Istrati L.** Monitoring and assessment of CO and CO₂ content in the urban atmosphere, Modelling and optimization in the machines building field., MOCM-9, vol. 1, ISSN 1224-7480, p. 301-306, (2003)
32. Gavrilă L., **Istrati L.**, Constantin M.M., Simion A., Ivășcan Șt. Separation of nickel, aluminium and magnesium from spent steam reforming catalysts using ion exchange resins, Scientific study & research, vol. II (1-2), ISSN 1582-540X, p. 25-30, (2001)
33. Gavrilă L., **Istrati L.**, Constantin M.M., Simion A., Ivășcan Șt. Purifying nickel sulfate by ion exchange, Scientific study & research, vol. II (1-2), ISSN 1582-540X, p.31-36, (2001)
34. **Istrati L.**, Gavrilă L., Balasanian I., Harja M., Nistor D. The recovery of the used catalyst resulting from the sulfuric acid factories I. Choosing a technological solution, Scientific study & research, vol. II (1-2), ISSN 1582-540X, p.103-108, (2001)
35. **Istrati L.**, Harja M., Nistor D. The superior recovery of the residuous waste from the sugar industry, Scientific study & research, vol. II (1-2), ISSN 1582-540X, p.109-112, (2001)
36. **Istrati L.**, Balasanian I., Ivaniciuc M. Kinetics of copper extraction from used Cu-Mg-Al₂O₃ catalysts, Analele Științifice ale Universității. "Al. I. Cuza" Iași, tomul VIII, s. Chimie, nr. 2, p. 377-382, (2000)

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.

Articole publicate în volume ale conferințelor internaționale

1. Șuteu D., Harja M., **Rusu L.** Sorption of dyes from aqueous solution onto lime-coal ash sorbent, Proceedings of International Scientific Conference, UNITECH '07, 23 – 24 November 2007, GABROVO, Bulgaria, Proceeding, vol.2, University Publishing House "V. Aprilov"- Gabrovo, **2007**, ISSN 1313-230X, p. II-317-II-321
2. **Istrati L.**, Gavrilă L., Harja M., Ciobanu G., Rusu N. Environmental study regarding pollution in oil extraction areas, Bacau District, Romania III. Pollution of the ground waters, Proceedings 10-th International Research/ Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2006, Barcelona –Lloret de Mar, Spain, 11-15 september, **2006**, ISBN 9958-617-30-7, p. 1107-1110
3. Gavrilă L., Fînaru A., Simion A.I., Ciocan M., **Istrati L.** Dependence of some properties of liquid food products, by-products and raw materials with temperature and composition, Proceedings Jubilee scientific conference "State-of-the-art and problems of agricultural science and education", Agricultural University – Plovdiv, october 19-20, **2005**, Scientific Works, vol. I., book 2, **2005**, p. 295-300
4. **Istrati L.**, Harja M., Gavrilă L., Ciobanu G., Rusu N. Complex combination with phytonutritive and antipest effect for agriculture, Proceedings Jubilee scientific conference "State-of-the-art and problems of agricultural science and education", Agricultural University – Plovdiv, october 19-20, **2005**, Scientific Works, vol. I., book 2, **2005**, p. 379-384
5. Gavrilă L., **Istrati L.**, Fînaru A., Simion A.I., Ciocan M. Ed. Fresh water consumption reduction in mineral fertilizers manufacturing, Proceedings to the International Conference on Water Supply and Sewerage Services Past, Present and Future, october 12-16, **2005**, Opatija, Croatia, p. 1-10
6. Gavrilă L., Gavrilă D., **Istrati L.**, Fînaru A., Ciocan M. Ed., Simion A.I. Improving of heat transfer efficiency in shell and tube heat exchangers by cooling water conditioning, ATDC'05 Proceedings of the 4th DAAAM International Conference on Advanced Technologies for Developing Countries, september 21-24, **2005**, Slavonski Brod, Croatia, Published by Josip Juraj Strossmayer University of Osijek, Mechanical Engineering Faculty in Slavonski Brod, DAAAM

- International Vienna, ISBN 953-6048-29-9, ISBN 3-901509-49-6 (DAAAM International), p. 513-518
7. **Istrati L.**, Gavrilă L., Harja M., Ciobanu G., Rusu N. Environmental study regarding pollution in oil extraction areas, Bacau District, Romania II. Pollution of the surface waters, Proceedings 9-th International Research/ Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2005, Antalya, Turkey, 26-30 september, **2005**, lucrare publicată sub nr. TMT05-229, ISBN 9958-617-21-8, p. 1431-1434
 8. Gavrilă L., **Istrati L.**, Fînaru A., Ştefănescu I., Ciocan M. Ed., Simion A.I., Manufacture of mineral fertilizers from an environmental point of view, Proceedings 9-th International Research/ Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2005, Antalya, Turkey, 26-30 september, **2005**, lucrare acceptată spre publicare sub nr. TMT05-025, ISBN 9958-617-21-8, p. 1415-1418,
 9. **Istrati L.**, Harja M., Dabija A., Ciobanu G., Ciocan M. Implémentation du système HACCP dans la chaine de fabrication des conserves composites ; Actes du seminaire d'animation regionale SAR-2004 , Maitrise et gestion de la qualite dans l'industrie alimentaire 12-14 mai 2004, Editura Tehnica – Info, Chişinău, **2004**, ISBN 9975-63-233-5, p. 25-29
 10. Dabija A., Sion I., **Istrati L.** Recherches concernant la securité des produits carnés, Actes du seminaire d'animation regionale SAR-2004 , Maitrise et gestion de la qualite dans l'industrie alimentaire 12-14 mai 2004, Editura Tehnica – Info, Chişinău, **2004**, ISBN 9975-63-233-5, p. 30-34
 11. **Istrati L.**, Dabija A., Harja M., Ciobanu G. Recherches concernant l'influence de SO₂ sur la qualité du vin rouge, Actes du seminaire d'animation regionale SAR-2004 , Maitrise et gestion de la qualite dans l'industrie alimentaire 12-14 mai 2004, Editura Tehnica – Info, Chişinău, **2004**, ISBN 9975-63-233-5, p. 112-116
 12. Dabija A., Sion I., **Istrati L.** Etude concernant l'optimisation des qualités biotechnologiques de la levure saccharomyces cerevisiae, Actes du seminaire d'animation regionale SAR-2004 , Maitrise et gestion de la qualite dans l'industrie alimentaire 12-14 mai 2004, Editura Tehnica – Info, Chişinău, **2004**, ISBN 9975-63-233-5, p. 190-194
 13. Ciobanu G., **Istrati L.**, Harja M., Cîrja G., Ciobanu O. Préparation et caracteristique des membranes pour l'épuration des eaux, Actes du seminaire d'animation regionale SAR-2004 , Maitrise et gestion de la qualite dans l'industrie alimentaire 12-14 mai 2004, Editura Tehnica – Info, Chişinău, **2004**, ISBN 9975-63-233-5, p.220-223
 14. Harja M., **Istrati L.**, Ciobanu G. Considerations sur les emissions de dioxyde de soufre, Actes du seminaire d'animation regionale SAR-2004 , Maitrise et gestion de la qualite dans l'industrie alimentaire 12-14 mai 2004, Editura Tehnica – Info, Chişinău, **2004**, ISBN 9975-63-233-5, p. 224-227
 15. Ciobanu G., Harja M., **Istrati L.**, Carja G., Ciobanu O. Procédés membranaires pour traitement de l'eau, Actes du troisième Collque Franco-Ruomain de Chimie Appliquée CoFrRoCA-2004 , 22-26 septembre 2004, Slănic Moldova, Roumanie, Ed.Tehnica-Info Chişinău & Alma Mater Bacău, **2004**, ISBN 9975-63-183-5, p. 403-406
 16. **Istrati L.**, Ciobanu G., Balasarian I., Harja M., Ciocan M., Gavrilă L. Valorisation du catalyseur Zn-Cr utilise pour la dehydrogenation du cyclohexanole a cyclohexanone, Actes du troisième Collque Franco-Ruomain de Chimie Appliquée CoFrRoCA-2004 , 22-26 septembre 2004, Slănic Moldova, Roumanie, Ed.Tehnica-Info Chişinău & Alma Mater Bacău, **2004**, ISBN 9975-63-183-5, p. 420-423
 17. Harja M., Harja C., **Istrati L.**, Ciobanu G.M. Reduction du contenu en bioxyde de soufre a l'aide des suspensions de carbonate de calcium, Actes du troisième Collque Franco-Ruomain de Chimie Appliquée CoFrRoCA-2004 , 22-26 septembre 2004, Slănic Moldova, Roumanie, Ed.Tehnica-Info Chişinău & Alma Mater Bacău, **2004**, ISBN 9975-63-183-5, p. 557-558
 18. **Istrati L.**, Harja M., Ciobanu G., Gavrilă L. Obtention du carbonate de calcium d'usage pharmaceutique et cosmetique, Actes du troisième Collque Franco-Ruomain de Chimie Appliquée CoFrRoCA-2004 , 22-26 septembre 2004, Slănic Moldova, Roumanie, Ed.Tehnica-Info Chişinău & Alma Mater Bacău, **2004**, ISBN 9975-63-183-5, p. 559-560
 19. **Istrati L.**, Gavrilă L., Grosu M. Recherches sur l'obtention de certains extraits des plantes I.Obtention de l'huile essentielle de basilic. Actes du deuxième Colloque Franco-Roumain de

- Chimie Appliquée, 10-12 octobre 2002, Bacău, Roumanie, Ed.Tehnica-Info Chişinău & Alma Mater Bacău, **2002**, ISBN 9975-63-140-1, p. 155-156
20. **Istrati L.**, Gavrilă L., Harja M., Balasanian I. Possibilités de purification d'eaux résiduelles provenant de la fabrication de l'acide adipique, Actes du deuxième Colloque Franco-Roumain de Chimie Appliquée, 10-12 octobre 2002, Bacău, Roumanie, Ed.Tehnica-Info Chişinău & Alma Mater Bacău, **2002**, ISBN 9975-63-140-1, p. 351-354
 21. Harja M., **Istrati L.** Comparaisons des modèles de transfert de masse munies de réactions chimiques, Actes du deuxième Colloque Franco-Roumain de Chimie Appliquée, 10-12 octobre 2002, Bacău, Roumanie, Ed.Tehnica-Info Chişinău & Alma Mater Bacău, **2002**, ISBN 9975-63-140-1, p. 279-280,
 22. Gavrilă L., **Istrati L.**, Simion A.I. Valorisation des catalyseurs usés de type NiO/ α -Al₂O₃. Cinétique de la solubilisation de l'oxyde de nickel, Actes du deuxième Colloque Franco-Roumain de Chimie Appliquée, 10-12 octobre 2002, Bacău, Roumanie, Ed.Tehnica-Info Chişinău & Alma Mater Bacău, **2002**, ISBN 9975-63-140-1, p. 281-284

Prezentarea de lucrări științifice la conferințe internaționale (selecție 2012-2022)

1. Rusu L, Grigoraş C-G, Suceveanu E.M., Simion A-I, Istrate B., Synthesis of biosorbents based on *Saccharomyces pastorianus* residual biomass by immobilization and encapsulation. Comparative evaluation of pharmaceuticals biosorption, The International Conference „Biotechnologies - Present and Perspectives” 8th Edition, 5th of November 2021, Suceava, Romania, <https://fiajournal.usv.ro/conference2021/>
2. Rusu L, Suceveanu E.M., Grigoraş C-G, Simion A-I, Dedi Botezatu A. V., Removal of ethacridine lactate from aqueous solutions using biosorbents based on residual microbial biomass: fixed- bed column studies, Symposium 'Ecology and Protection of Ecosystems' The XIII TH Edition, 4nd – 5th of November 2021, Bacau, Romania, <https://epe.ub.ro/>
3. Rusu L, Grigoraş C-G, Suceveanu E.M., Simion A-I, Şuteu D, Biosorptive potential of new types of biosorbents based on microorganism and residual biomass, International Conference ”Intelligent Valorisation of Agro-Industrial Wastes” 7-8 October 2021, Chisinau, Republic of Moldova, <https://ro-md.net>, <https://intelawastes.utm.md>
4. Rusu L, Grigoraş C-G, Suceveanu E.M., Simion A-I, Favier L., Antibiotics biosorption from water matrices using composite materials based on microbial biomass and natural polymers, The 20th International Conference”Life Sciences for Sustainable Development”, 23rd – 24th of September 2021, Cluj-Napoca, Romania, <http://symposium.usamvcluj.ro/>
5. Rusu, L., Şuteu, D., Grigoraş C-G., Vial Ch., Suceveanu E. M., Development of new biosorbents based on microbial biomass immobilized on natural polymers, The 16th International Conference of Constructive Design and Technological Optimization in Machine Building Field, OPROTEH 2021, May 25-27, Bacau, Romania, <http://oproteh.ub.ro>
6. Suteu D., Zaharia C., Blaga A.C., Horciu L.I., Rusu L., Materials with added value by valorization of industrial by-products: biosorbents based on residual industrial biomass immobilized, The 16th International Conference of Constructive Design and Technological Optimization in Machine Building OPROTEH 2021, Romania, BACAU MAY 25-27, 2021 <http://oproteh.ub.ro>
7. Daraban G. M., Badeanu M., Rusu L, Suteu D., Vegetal extract from spontaneous Romanian flora with bioinsecticidal effect used in the pests control during the seeds storage, 5th International Conference on Chemical Engineering, ICCE 2020, Romania, Iași, October 28 – 30, 2020
8. Daraban G. M., Dinica R., Badeanu M., Rusu L., Suteu D., New challenges in bio-food products, 14th International Conference of Food Physicists 2020, ICFP 2020, November 5-6, 2020, Iasi, Romania
9. Daraban G. M., Rusu L., Zaharia C., Şuteu D., Comparative evaluation of conventional extraction techniques used to obtain crude extracts from spontaneous flora of Moldova with bioinsecticide activity, *11th edition of International Conference of Applied Sciences, CISA 2019 inclusă în The International Conferences Celebrating 43 Years of Technical Higher*

- Education Into "Vasile Alecsandri" University of Bacau, 22-24 Mai 2019, Bacău, România, www.cisaconf.ub.ro, Publicare* The International Conferences "Vasile Alecsandri" University of Bacau, Faculty of Engineering, OPROTEH 2019, CISA 2019, CIER 2019- Conference Proceedings - Abstracts, Bacau, May 22-24, 2019, Editura Alma Mater, Bacău, ISSN 2457-3388, p. 79.*
10. Abdou Alio M., Țugui O. C., Rusu L., Pons A., Vial Ch., Lignocellulosic wastes as biomass feedstocks for second-generation ethanol production, *11th edition of International Conference of Applied Sciences, CISA 2019 inclusă în The International Conferences Celebrating 43 Years of Technical Higher Education Into "Vasile Alecsandri" University of Bacau, 22-24 Mai 2019, Bacău, România, www.cisaconf.ub.ro, Publicare* The International Conferences "Vasile Alecsandri" University of Bacau, Faculty of Engineering, OPROTEH 2019, CISA 2019, CIER 2019- Conference Proceedings - Abstracts, Bacau, May 22-24, 2019, Editura Alma Mater, Bacău, ISSN 2457-3388, p. 80.*
 11. Hlial M., Mirilă D. C., Nistor I. D., Rusu L., Vial Ch., Studies on the Removal of Persistent Organic Pollutants by Adsorption Using Different Types of Biomass, *11th edition of International Conference of Applied Sciences, CISA 2019 inclusă în The International Conferences Celebrating 43 Years of Technical Higher Education Into "Vasile Alecsandri" University of Bacau, 22-24 Mai 2019, Bacău, România, www.cisaconf.ub.ro, Publicare* The International Conferences "Vasile Alecsandri" University of Bacau, Faculty of Engineering, OPROTEH 2019, CISA 2019, CIER 2019- Conference Proceedings - Abstracts, Bacau, May 22-24, 2019, Editura Alma Mater, Bacău, ISSN 2457-3388, p. 87.*
 12. Battahi I., Mirilă D. C., Nistor I. D., Rusu L., Vial Ch., Removal of Persistent Pollutants Using Unconventional Materials, *11th edition of International Conference of Applied Sciences, CISA 2019 inclusă în The International Conferences Celebrating 43 Years of Technical Higher Education Into "Vasile Alecsandri" University of Bacau, 22-24 Mai 2019, Bacău, România, www.cisaconf.ub.ro, Publicare* The International Conferences "Vasile Alecsandri" University of Bacau, Faculty of Engineering, OPROTEH 2019, CISA 2019, CIER 2019- Conference Proceedings - Abstracts, Bacau, May 22-24, 2019, Editura Alma Mater, Bacău, ISSN 2457-3388, p. 90.*
 13. Favier L., Laslau A., Simion A. I., Rusu L., Significant Elimination of a Harmful Water Pollutant Over TiO₂ Catalyst and Uv Irradiation, *11th edition of International Conference of Applied Sciences, CISA 2019 inclusă în The International Conferences Celebrating 43 Years of Technical Higher Education Into "Vasile Alecsandri" University of Bacau, 22-24 Mai 2019, Bacău, România, www.cisaconf.ub.ro, Publicare* The International Conferences "Vasile Alecsandri" University of Bacau, Faculty of Engineering, OPROTEH 2019, CISA 2019, CIER 2019- Conference Proceedings - Abstracts, Bacau, May 22-24, 2019, Editura Alma Mater, Bacău, ISSN 2457-3388, p. 92.*
 14. Rusu L., Nicuță D., Harja M., Șuteu D., Favier L., Vial C. (2018), Analyse écotoxicologique des cendres volantes des centrales électriques à l'aide de l'allium cepa comme bioindicateur de génotoxicité, *Le 10ème Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2018), 27 – 29 Juin 2018, Bacău, Romania; <http://cofroca.ub.ro/>*
 15. Abdou Alio M., Tugui O., Pons A., Rusu L., Vial C. (2018), Pretraitement par solvant de connexes de scierie en vue de la production de bioethanol dans une bioraffinerie multi-ressources, *Le 10ème Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2018), 27 – 29 Juin 2018, Bacău, Romania; <http://cofroca.ub.ro/>*
 16. Sescu A. M., Lutic D., Favier L., Rusu L., Ciobanu G., Harja M. (2018), Influence des dopants sur l'activité photocatalytique du TiO₂, *Le 10ème Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2018), 27 – 29 Juin 2018, Bacău, Romania; <http://cofroca.ub.ro/>*
 17. Favier, L., Pantilimon C.M., Dragan, C., Simion, A.I., Rusu, L., Kadmi, Y., Matei, E., (2017), On the enhancement of the elimination of a persistent emerging pollutant in a photocatalytic process, *20th Romanian International Conference on Chemistry and Chemical Engineering – RICCE 2017, 6-9 Sep. 2017, Braşov, Romania;*
 18. Favier, L., Simion, A.I., Rusu, L., Grigoraş, C.-G., Kadmi, Y., Hlihor, R., Wolbert, D., (2017), Efficient degradation of a persistent pharmaceutical compound through an advanced oxidation

- process via a statistical optimization approach, *9th International Conference on Environmental Engineering and Management*, 6-9 September 2017, Bologna, Italia;
19. Favier, L., Rusu, L., Simion, A.I., Hlihor, R., (2017), TiO₂ advanced oxidation as prominent strategy for the removal of a persistent organic molecule in aqueous solutions, *7th International Congress of Energy and Environment Engineering and Management (CIIEM7)*, 17-19 July, Las Palmas de Gran Canaria, Spain;
 20. Favier, L., Simion, A.I., Rusu, L., Vidu, R., (2017), Does the refractory organic molecules can be efficiently removed from aqueous solutions by advanced oxidation processes, *41th ARA Congress*, 19-22 July, Craiova, Romania;
 21. Rusu L., Popescu I., Suteu D., Harja M., Favier L., Vial C., Marcu I.C., Elimination du colorant Orange II des solutions aqueuses par adsorption sur hydroxydes doubles lamellaires calcines, *Le Neuvième Colloque Franco – Roumain de Chimie Appliquée, COFrRrCA 2016, Clermont-Ferrand*, Franța, 29 iunie - 01 iulie 2016, <http://www.cofrroca.ub.ro/>
 22. Kadmi, Y., Favier, L., Rusu, L., Simion, A.I., Vial C., Strategie analytique pour la quantification de sous-produits organoazotes émergents dans les matrices aqueuses, *Le Neuvième Colloque Franco – Roumain de Chimie Appliquée, COFrRrCA 2016, Clermont-Ferrand*, Franța, 29 iunie - 01 iulie 2016, <http://www.cofrroca.ub.ro/>
 23. Favier, L., Matei, E., Simion, A.I., Kadmi, Y., Rusu, L., (2016), Experimental Study on The Degradation of a Blood Lipid Regulator Molecule with Nano-sized Catalyst and UV Irradiation; *6th International Conference on Materials Science and Technologies – RoMat 2016*, 9-12 Nov. 2016, Bucharest, Romania;
 24. **Rusu, L.**, Harja, M., Suteu, D., Simion, A., Favier, L., Pesticide residues contamination of milk and dairy products. A case study: Bacau district area, Romania, *CSA 2015 JOINT INTERNATIONAL CONFERENCE, Iasi, Romania, October 22-25th, 2015*, <http://www.exhibitions-innovations.ro/csa2015/> , *Publicare* Conference Proceedings-Extended Abstracts, CSA 2015 Joint International Conference*, p. 127-128
 25. Favier, L., Rusu, L., Simion, A.I., Kadmi, Y., Matei, E., Ounnar, A., Grigoraș, C.G., Vial, C., (2015), The Role of Some Operating Parameters in the Removal of an Emerging Pharmaceutical Pollutant by UV Irradiation, *Chemical Engineering and Biochemical Engineering for a NEW Sustainable Process Industry in Europe*, 27 Sep. - 1 Oct. 2015, Nice, France;
 26. Rusu, L., Harja, M., Suteu, D., Favier, L., Dabija A., The levels of radionuclides and heavy metals in milk and dairy products from Romania: Monitoring and risk assesment, *CSA 2015 Joint International Conference, Iasi, Romania, October 22-25th, 2015*, <http://www.exhibitions-innovations.ro/csa2015/> , *Publicare* Conference Proceedings-Extended Abstracts, CSA 2015 Joint International Conference*, p. 129-130
 27. Rusu, L., Suceveanu, M., Suteu, D., Favier, L., Harja, M., Assessment of groundwater and surface water contamination by landfill leachate: A case study in Neamt County, *8th International Conference on Environmental Engineering and Management, ICEEM- 08*, Iasi, Romania, September 9-12th, **2015**, www.iceem.eu, *Publicare* Conference Proceedings-Extended Abstracts, 8th International Conference on Environmental Engineering and Management*, p.
 28. Rusu, L., Vial, C., Suteu, D., Favier, L., Harja, M., Lazar, I.M., Biosorption of Orange II dye from aqueous media, *9th Edition of International Conference of Applied Sciences, CISA 2015*, inclusă în *The XIth International Conference OPROTEH 2015*, 7-9 Mai **2015**, Bacău, România, www.cisaconf.ub.ro, *Publicare* The XIth International Conference OPROTEH 2015 including 9th Edition of International Conference of Applied Sciences, CISA 2015- Conference Proceedings - Abstracts*, Editura Alma Mater, Bacău, ISSN 2457-3388, p. 127.
 29. Favier, L., Rusu, L., Simion, A.I., Ounnar, A., Matei, M., Kadmi, Y., Grigoraș, C.G., Dinica, R., (2015), Investigation of the photocatalytic degradation of an emerging pharmaceutical pollutant by UV irradiation, *The 7th International Symposium EuroAliment 2015*, 24-26 September, 2015, Galați, Romania;
 30. Rusu, L., Vial, C., Audonnet, F., Harja, M., Suteu, D., Favier, L., Lazar, I.M., Fly ash-derived zeolites as adsorbents for pollutant removal from wastewater, *Second International*

- Conference on Natural and Anthropic Risks ICNAR 2014*, 4-7 iunie 2014, Bacău, România, <http://icnar.ub.ro/en/>, Publicare* *Volum de rezumate* (ISSN 2360-4018)
31. Suteu, D., Zaharia, C., Popovici, C., Malutan, T., Rusu, L., Tabacaru, L., Wood wastes as a renewable source of energy, *Second International Conference on Natural and Anthropic Risks ICNAR 2014*, 4-7 iunie 2014, Bacău, România, <http://icnar.ub.ro/en/>, Publicare* *Volum de rezumate* (ISSN 2360-4018)
 32. Kadmi, Y., Favier, L., Simion A.I., Rusu, L., Wolbert D., A practical UHPLC/DAD method for the detection of chlorophenols in water at nanogram per liter level, *Second International Conference on NATURAL AND ANTHROPIC RISKS ICNAR 2014*, 4-7 iunie 2014, Bacău, România, <http://icnar.ub.ro/en/>, Publicare* *Volum de rezumate* (ISSN 2360-4018)
 33. Suteu, D., Biliuta, G., Rusu, L., Coseri, S., Cellulose cellets new type of adsorbent for retaining dyes from aqueous media, *2nd International Conference on Chemical Engineering ICCE 2014, Innovative Materials and Processes*, Iasi, 5-8 noiembrie 2014, www.ch.tuiasi.ro/ICCE2014/, Publicare* *Volum de rezumate* (ISSN 2360-4018)
 34. Kadmi, Y., Favier, L., Simion, A., Rusu, L., Harja, M., Wolbert, D., A new strategy for pentachlorophenol monitoring in water using ultra-high-performance liquid chromatography-tandem mass, *2nd International Conference on Chemical Engineering ICCE 2014, Innovative Materials and Processes*, Iasi, 5-8 noiembrie 2014, www.ch.tuiasi.ro/ICCE2014/, Publicare* *Volum de rezumate* (ISSN 2360-4018)
 35. Favier, L., Simion, A.I., Rusu, L., Ahunbay Goktug, Bouzaza A., Kinetics of the photocatalitic degradation of clofibric acid in water using Titanium dioxide under UV irradiation, *2nd International Conference on Recycling and Reuse, 4-6 June 2014, İstanbul / TÜRKİYE*, <http://rr.istanbul.edu.tr/conf/>
 36. Favier, L., Simion, A.I., Rusu, L., Matei, E., Păcală, M.L., Grigoraș, C.G., Wolbert, D., Bouzaza, A., (2013), *Advanced oxidation process for organic compound elimination based on heterogenous photocatalysis: A kinetic study*, *International Conference on Environmental Research and Technology – ECO IMPULS 2013*, 7-8 Nov. 2013, Timisoara, Romania;
 37. Tanasa, E., Fayad, N., Yehia, T., Rusu, L., Vial, C., Suteu, D., Elimination de l'Orange II par *saccharomyces cerevisiae* immobilisee sur alginate dans les eaux usees, *Huitième Colloque Franco-Roumain de Chimie Appliquée 2014*, Montpellier, Franța, 15-18 septembrie 2014, www.cofroca.org, Publicare*: *Actes du Huitième Colloque Franco-Roumain de Chimie Appliquée 2014*, ISSN 2068-6382, p. 117.
 38. Rusu, L., Suceveanu, M., Suteu, D., Harja, M., Impact de la pollution des sites d'enfouissement municipaux sur la qualite des eaux souterraines et de surface, *Huitième Colloque Franco-Roumain de Chimie Appliquée 2014*, Montpellier, Franța, 15-18 septembrie 2014, www.cofroca.org, Publicare*: *Actes du Huitième Colloque Franco-Roumain de Chimie Appliquée 2014*, ISSN 2068-6382, p. 143.
 39. Kadmi, Y., Favier, L., Rusu, L., Simion, A., Vial, C., Wolbert, D., Etude cinetique et modelisation de la formation des sous- produits de chloration dans les eaux chlorees, *Huitième Colloque Franco-Roumain de Chimie Appliquée 2014*, Montpellier, Franța, 15-18 septembrie 2014, www.cofroca.org, Publicare*: *Actes du Huitième Colloque Franco-Roumain de Chimie Appliquée 2014*, ISSN 2068-6382, p. 93.
 40. Suceveanu, M., **Rusu, L.**, Influence du SO₂ sur l'extrait non réducteur et polyphénols dans les vins rouges roumains de Cabernet Sauvignon et Merlot, *Le Huitième Colloque Franco-Roumain de Chimie Appliquée*, 15-18 septembrie 2014, Montpellier, Franța, <http://www.cofroca.org/>
 41. Rusu, L., Harja, M., Simion, A.I., Suteu, D., Favier, L., Removal of Astrazone Blue from aqueous solutions onto brown peat. Equilibrium and kinetics studies, *International Conference of Applied Sciences. Chemistry and Chemical Engineering, CISA – 2013*, Bacău, Romania, mai, 15-18, 2013, <http://cisaconf.ub.ro/>, Publicare* *Volum de rezumate*
 42. Rusu, L., Buema, G., Sutiman, D.M., Harja, M., Retention du cuivre des solutions aqueuses sur des nouveaux types d'adsorbants obtenus a partir de cendre provenant de centrales thermiques, *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 185-186

43. Rusu, L., Harja, M., Favier, L., Grigoras, C., Simion A., Suteu, D., 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

Cărți

1. **Rusu L.**, Ștefănescu I.A., Biotehnologii in protectia mediului. Metode de investigare, Alma Mater, Bacau, 2015, ISBN: 978-606-527-484-6, 197 pag.,
2. **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.
3. Dabija A., **Rusu L.**, Alexa I.C., Enzimologie industrială , Editura Alma Mater, Bacau, 2007, ISBN 978-973-1833-32-3, 192 pag.
4. **Istrati (Rusu), L.**, Harja M. Biotehnologii în protecția mediului, Ed. Tehnică – Info Chișinău, Republica Moldova, 2006, ISBN 9975-63-147-7, 277 pag.
5. Harja M., **Istrati (Rusu) L.**, Smocot R., Tehnologia lianților anorganici, Editura Tehnică, Științifică și Didactică CERMI, Iași, 2003, ISBN 973-667-004-X, 278pag.,
6. 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.

Contracte de cercetare

Director de proiect

1. Obținerea de Materiale cu Valoare Adăugată 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**
2. Study regarding the influence of pollutant factors of S.C. PAL EKC S.R.L. company on the environment, No. 3318 / 09.05.2005 (2005 – 2006)
3. Obținerea unui îngrășământ ecologic pentru zonele montane. Grant de cercetare științifică, Beneficiar MCT, 1999,
4. Îngrășăminte lichide cu efect fungicid pentru cultura viței de vie și a pomilor fructiferi. Grant de cercetare științifică, Beneficiar MCT, 1997-1998,
5. 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,
6. 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,
7. Valorificarea catalizatorului uzat de la fabricarea margarinei, Grant de cercetare științifică, Beneficiar MCT, 1993,

Membri în echipă

1. Environment and wastes – Sustainable development and wastes, No. 3/376/30.07.2007 (**2007 – 2008**), 11000 RON, echipa de 11, 7 luni
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 care includ fonduri Europene

Manager proiect

1. Parteneriat pentru stagii de practică - Primul pas pentru o carieră în industria alimentară” Cod SMIS 108612, Programul Operațional Capital Uman 2014-2020, 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, Date contract: **POCU/90/6.13/6.14/108612/05.07.2018** (49063/05.07.2018), Perioada: **2018-2020**, Valoare= 621 259,51 lei

Conf.univ. dr.ing. Lăcrămioara Rusu