



Europass Curriculum Vitae



Personal information			
First name / Surname	Lăcrămioara (ISTRATI) RUSU		
Address	157, Calea Mărășești, 600115, Bacău, Romania		
Telephone(s)	004-0234-542411	Mobile	004-0744-598363
Fax(es)	004-0234-545753; 004-0234-580170		
E-mail	lacraistrati04@yahoo.com ; istrati@ub.ro		
Nationality	Romanian		
Date of birth	24.06.1968		
Gender	Female		
Work experience			
<i>Dates</i>	2005 – present		
Occupation or position held	Associate Professor		
Main activities and responsibilities	<ul style="list-style-type: none"> - Teaching activities at bachelor and master level (courses, seminars and laboratory practical work): Biotechnologies used in Environmental Protection; Unitary Chemical and Biochemical Processes; Membrane Technologies and Biotechnological Applications; Modern technologies of bioresources processing applied in food, pharmaceutical and cosmetic industries; Additives in food industry; Enzymology and Enzymatic Catalysis; Energetic Valorisation of Bioresources; Control and Insurance of Bioresources Quality. - Coordination of the bachelor and master theses - Scientific research activities: participation in the development of research projects as project manager and team member 		
Name and address of employer	"Vasile Alecsandri" University of Bacău 157, Calea Mărășești, 600115 Bacău – Romania		
Type of business or sector	Higher education		
<i>Dates</i>	1998 – 2005		
Occupation or position held	Lecturer		
Main activities and responsibilities	<ul style="list-style-type: none"> - Teaching activities (courses, seminars and laboratory practical work): Biotechnologies used in Environmental Protection; Organic Chemical Technology; Membrane Technologies and Biotechnological Applications; Enzymology and Enzymatic Catalysis; Inorganic Chemistry; Corrosion and Corrosion Protection - Coordination of the bachelor theses - Scientific research activities: participation in the development of research projects as project manager and team member 		
Name and address of employer	"Vasile Alecsandri" University of Bacău 157, Calea Mărășești, 600115 Bacău – Romania		
Type of business or sector	Higher education		
<i>Dates</i>	1999 – 2000		
Occupation or position held	Head of Laboratory		
Main activities and responsibilities	Research activities and laboratory management		
Name and address of employer	Institute of Chemical Researches and Applied Technology S.A. Craiova – Romania Piatra Neamț Research Laboratory		
Type of business or sector	Research		
<i>Dates</i>	1993 – 1999		
Occupation or position held	Researcher		
Main activities and responsibilities	Scientific research activities: participation in the development of research projects as project manager and team member		
Name and address of employer	Institute of Chemical Researches and Applied Technology S.A. Craiova – Romania Piatra Neamț Research Laboratory		
Type of business or sector	Research		

<i>Dates</i>	1991 – 1993									
Occupation or position held	Chemical Engineer									
Main activities and responsibilities	Scientific research activities: participation in the development of research projects as project manager and team member									
Name and address of employer	Institute of Chemical Researches and Applied Technology S.A. Craiova – Romania Piatra Neamț Research Laboratory									
Type of business or sector	Research									
Scientific activity	<p>Domain of competence: Environment and environmental engineering: environmental protection and chemistry, depollution qualitative and quantitative analysis of pollutants and micropollutants, water and wastewater treatment: adsorption/biosorption processes, valorisation of industrial and urban waste, restoration and bio-restoration of the environmental factors, biotechnologies applied in environmental protection.</p> <p>Chemical engineering: advanced oxidation processes (photocatalysis) applied to water and wastewater treatment, membrane technologies, solid-fluid interactions in complex and diluted media, physical chemistry of complex systems: reaction schemes, chemical or biochemical kinetics, interface study, modelling and optimization of the chemical processes.</p> <p>Scientific papers: in ISI journals (22), in journals indexed in International Databases (38), in proceedings of international conferences (23), in proceedings of national conferences with international participation and in Romanian peer-reviewed journals recognized by CNCSIS (24);</p> <p>Books: 6;</p> <p>International communications: 58</p> <p>Patents : 3;</p> <p>Research contracts: project manager (6) and team member (10);</p> <p>Awards: 1.</p>									
Education and training										
<i>Dates</i>	2007									
Title of qualification awarded	Environmental Auditor diploma									
Principal subjects/occupational skills covered	Evaluation and control of environmental pollution									
Name and type of organisation providing education and training	"S.C. Expert Consulting Management S.R.L." – Romania									
<i>Dates</i>	1992 – 2000									
Title of qualification awarded	Ph. D. in Chemical Engineering									
Principal subjects/occupational skills covered	Contributions to the study of the recovery processes of some metals from spent catalysts									
Name and type of organisation providing education and training	"Gh. Asachi" Technical University of Iași – Romania									
Level in national or international classification	ISCED 7									
<i>Dates</i>	1986 – 1991									
Title of qualification awarded	Bachelor of Science in Macromolecular Compounds Technology									
Name and type of organisation providing education and training	"Gh. Asachi" Technical University of Iași – Romania									
Level in national or international classification	ISCED 5									
<i>Dates</i>	1982 – 1986									
Title of qualification awarded	High school diploma									
Name and type of organisation providing education and training	Mathematics and Physics "George Bacovia" High School of Bacău – Romania									
Level in national or international classification	ISCED 4									
Personal skills and competences										
Mother tongue(s)	Romanian									
Other language(s)										
Self-assessment	Understanding				Speaking				Writing	
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production			
English	B	Independent user	B	Independent user	B	Independent user	B	Independent user	B	Independent user
French	B	Independent	B	Independent	B	Independent	B	Independent	B	Independent

	2	user	2	user	2	user	2	user	2	user
	(*) Common European Framework of Reference for Languages									
Social skills and competences	Ability to work well in teams and under tight deadlines. Able to express complex technical data and ideas clearly, accurately and intelligibly in writing and in public presentations. Able to establish collaborative relationships.									
Organisational skills and competences	Ability to lead and coordinate research project activities. Ability to organize national and international scientific meetings and workshops. Ability to prepare, implement and coordinate teaching and scientific students activities.									
Technical skills and competences	Ability to use modern equipment for physico-chemical and elemental analysis (UV-VIS, FT-IR spectrophotometer, atomic absorption spectrometer, SEM, XRD)									
Computer skills and competences	Very good knowledge of Microsoft Office package Skilled with internet									
Driving licence	Category B									
Additional information	<p>Professional affiliation: Member of the Applied Chemistry and Process Engineering Research Center from "Vasile Alecsandri" University of Bacău Member of the Romanian Chemistry Society Member of the Balkan Environmental Association Member of the European Structure Integrity Society, ESIS, UE Member of the Romanian Association of Tearing Mechanics, ARMAR</p> <p>Experience in academic evaluation: ARACIS and UEFISCDI Expert</p> <p>Experience in scientific evaluation system: Reviewer for international peer-reviewed journals (i.e. Chem. Eng. Journal; Desalin. Water Treat., IRJPEH, IJEW), Editorial Manager online submission and peer review tracking system for International Journal of Environmental Science and Technology. Member of Editorial Production Board of SCIENTIFIC STUDY & RESEARCH – Chemistry and Chemical Engineering, Biotechnology, Food Industry.</p> <p>Collaborations: Ecole Nationale Supérieure de Chimie de Rennes – France Universite Blaise Pascal, Clermont Ferrand - France Faculty of Chemical Engineering and Environmental Protection from "Gh. Asachi" Technical University of Iași – Romania Faculty of Applied Chemistry and Materials Science from "Politehnica" University of Bucharest – Romania</p>									
Annexes	List of published papers (selection).									

List of scientific papers
M.Eng. Lăcrămioara Rusu Ph.D - Associate Professor
(Conf.univ.dr.ing Lăcrămioara Rusu)

Papers published in ISI journals

1. 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*, **2016**, ISSN:0957-5820 , Article in press, DOI : <http://dx.doi.org/10.1016/j.psep.2016.04.026>,
2. 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, (IF 2012 0.331) (IF 2014= 0.393)
3. 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, (IF 2012 1,002) (IF 2014= 1.258)
4. 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), p.525-532, (IF 2014= 1,258)
5. 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:1944-3986,57, 14665-14673, (Online),2015, DOI: 10.1080/19443994. 2015.1063464, p.1-9, (IF 2014= 1,173)
6. 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, (IF 2014= 1,258)
7. 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, (IF 2014= 1,258)
8. **Lacramioara Rusu**, Maria Harja, Andrei Ionuţ Simion, Daniela Suteu, Gabriela Ciobanu, Lidia Favier, Removal of Astrazone Blue from aqueous solutions onto brown peat. Equilibrium and kinetics studies, *Korean J. Chem. Eng.*, **2014**, ISSN 0256-1115, 31(6) p.1008 -1015, (IF 2014 =1.241)
9. Gabriela Ciobanu, Maria Harja, **Lacramioara Rusu**, Anca Mihaela Mocanu, Constantin Luca, Acid Black 172 dye adsorption from aqueous solution by hydroxyapatite as low-cost adsorbent, *Korean J. Chem. Eng.*, **2014**, ISSN 0256-1115, 31(6) p.1021 -1027,, (IF 2014= 1.241)
10. **L. Rusu**, M. Harja , C' Munteanu , G. Ciobanu, D. Suteu, 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, (IF 2014= 0.838)
11. 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, (IF 2013 0.44),

12. 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, (IF 2012 1,002) (IF 2014= 1.258)
13. 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, (IF 2012 1,002) (IF 2014= 1.258)
14. 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. (IF 2012 1,002) (IF 2014= 1.258)
15. 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, (IF 2012 0.331) (IF 2014= 0.393)
16. 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, (IF 2012 0.331) (IF 2014= 0.393)
17. 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, (IF 2012 0.331) (IF 2014= 0.393)
18. 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, (IF 2011: 1.435) (IF 2014= 1.258)
19. 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, (IF 2010: 0,885) (IF 2014= 1.258)
20. Harja M., Crețescu I., **Rusu L.**, Ciocintă 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, (IF 2009: 0,389) (IF 2014: 0.677)
21. 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, (IF 2009:0) (IF2014: 0)
22. 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, (IF 2008: 0) (IF 2014= 1.258)

Patents

1. Valentin NEDEFF, Domnica CIOBANU , Matei MACOVEANU , Aurel CHIRIAC , Lăcrămioara RUSU , Andrei Ionuț SIMION , 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: ecological organic biofertilizers, **2014, RO129229-A2**
2. Valentin NEDEFF, Domnica CIOBANU , Matei MACOVEANU , Aurel CHIRIAC , Lăcrămioara RUSU , Andrei Ionuț SIMION , Anaerobic biodegrading process for industrial organic by-products mixture and ecological organic biofort-type products obtained thereby, **2014, RO129161-A2**
3. Valentin NEDEFF, Domnica CIOBANU , Matei MACOVEANU , Aurel CHIRIAC , Lăcrămioara RUSU , Andrei Ionuț SIMION , L. D. TUDOR , Process for

polycondensation of sodium lignosulphonate with phenol and lignophenolic resin obtained thereby, **2014, RO129162-A2**

Papers published in journals indexed in International Databases

1. 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;
2. Simion, A.I., Grigoraş 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);
3. Grigoraş 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;
4. Simion, A.I., Dobrovici, P., Grigoraş 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;
5. Simion, A.I., Grigoraş, 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)
6. 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)
7. 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)
8. 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)
9. 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)
10. **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)
11. 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)
12. **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)
13. 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)
14. **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)
 15. 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)
 16. **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)
 17. **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)
 18. 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)
 19. 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)
 20. 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)
 21. 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)
 22. **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)
 23. 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)
 24. 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, Scientifical researches: Agroalimentary processes and technologies, vol. XI nr. 1, Ed. Agroprint, Timișoara, ISSN 1453-1399, p. 205-210, (2005)
 25. 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)
 26. **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),
 27. 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)
 28. 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)
 29. Gavrilă L., **Istrati L.**, Constantin M.M., Simion A., Ivășcan Șt. Puryfing nickel sulfate by ion exchange, Scientific study & research, vol. II (1-2), ISSN 1582-540X, p.31-36, (2001)

30. Nistor D., **Istrati L.**, Harja M. Treatment of the bleach-plant effluents with membrane filtration and sorption techniques, Scientific study & research, vol. II (1-2), ISSN 1582-540X, p.99-102, (2001)
31. **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)
32. **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)
33. **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)
34. **Istrati L.**, Ivaniciuc M., Nistor D. The modelling process of extraction of copper from spent catalysts Cu-Mg-Al₂O₃. II. Temperature influence, Modelling and optimization in the machines building field., MOCM-6, ISSN 1224-7480, p.165-168, (2000)
35. Ivaniciuc M., **Istrati L.** Modelling and simulation of carbon dioxide absorption into activated potassium carbonate aqueous solution, Modelling and optimization in the machines building field., MOCM-6, ISSN 1224-7480, p.169-172, (2000)
36. Nistor D., Ciobanu D., **Istrati L.**, Ursu A. Investigations in the synthesis of organic extracting agents from cellulose processing wastes. I. Reverse osmosis. Modelling and optimization in the machines building field., MOCM-6, ISSN 1224-7480, p. 173-178, (2000)
37. Nistor D., Ciobanu D., **Istrati L.**, Ursu A. Investigations in the synthesis of organic extracting agents from cellulose processing wastes. II. Reverse osmosis technology for wastewater reuse, Modelling and optimization in the machines building field., MOCM-6, ISSN 1224-7480, p. 179-185, (2000)
38. Nistor D., Ciobanu D., **Istrati L.** Investigations in the synthesis of organic extracting agents from cellulose processing wastes. III. Application of a thermodynamic model to experiments on nonisothermal diffusion of moisture in wood, Modelling and optimization in the machines building field., MOCM-6, ISSN 1224-7480, p.186-191, (2000)

Papers published in peer-reviewed journals recognized by CNCSIS

1. Harja M., **Rusu L.**, Bărbuță M. The viscosity and density of the aqueous solutions used for the absorption accompanied by chemical reaction, Buletinul Institutului Politehnic Iași, Seria Chimie și Inginerie Chimică, Tomul XLIXD(LIII), Fascicolul 8, ISSN 14531690, p. 117-123, (2008)
2. Harja M., Ciobanu G., **Istrati L.**, Carja G. Conversion of fly ash to zeolites for waste water treatment. Establish the experimental conditions, Buletinul Institutului Politehnic Iași, Seria Știința și Ingineria Materialelor, Tomul LIII (LVII), Fascicolul 4, ISSN 14531690, p. 67-70, (2007)
3. Gavrilă L., Gavrilă D., **Istrati L.**, Fînaru A., Ciocan M., Ed. Water consumption reduction in oil refining facilities, Buletinul Universității Petrol-Gaze din Ploiești, vol.LVII, seria tehnică nr. 2, secțiunea Ingineria și protecția mediului, ISSN 1221-9371, p. 62-67, (2005)
4. **Istrati L.**, Gavrilă L., Harja M., Ciobanu G. Researches concerning platinum recovery of industrial waste, Buletinul Universității Petrol-Gaze din Ploiești, vol.LVII, seria tehnică nr. 2, secțiunea Ingineria și protecția mediului, ISSN 1221-9371, p. 68-71, (2005)

5. Ciobanu G., **Istrati L.** Polyuretane membranes used in extraction of some phenols: the mechanism of extraction, Buletinul Universității Petrol-Gaze din Ploiești, vol.LVII, seria tehnică nr. 2, secțiunea Inginerie Chimică, Petrochimicăși a prelucrării petrolului; Chimie, ISSN 1221-9371, p. 126-129, (2005)
6. 9. Ciobanu G., **Istrati L.** Effect of some factors on phenols extraction by polyurethane membranes, Buletinul Universității Petrol-Gaze din Ploiești, vol. LVII, seria tehnică nr. 2, secțiunea Inginerie Chimică, Petrochimicăși a prelucrării petrolului; Chimie, ISSN 1221-9371, p. 130-133, (2005)
7. 10. Ciobanu G., Ghenghea L. D., Cârjă G., **Istrati L.** Kinetic and thermodynamic aspects concerning corrosion of aluminium alloys in alkaline media, Buletinul Institutului Politehnic din Iași, Tomul LI (LV), Fasc. 4, Secția Știința și Ingineria Materialelor, ISSN 1453-1690, p. 61-66, (2005)

Papers published in proceedings of international conferences

1. Șuteu D., Harja M., **Rusu L.** Sorption of dyes from aqueous solution onto lime-coal ash sorbent, Proceededings 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. Enviromental 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. Enviromental 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., Ștefănescu 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, Chișinău, **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, Chișinău, **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, Chișinău, **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, Chișinău, **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, Chișinău, **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, Chișinău, **2004**, ISBN 9975-63-233-5, p. 224-227
15. Nistor D., Harja M., Popescu-Apreutesei D., **Istrati L.**, Ursu A.V., Azzouz A. Modélisation et analyse factorielle du processus de concentration du lait , 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, Chișinău, **2004**, ISBN 9975-63-233-5, p. 280-284
16. 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 Chișinău & Alma Mater Bacău, **2004**, ISBN 9975-63-183-5, p. 403-406
17. **Istrati L.**, Ciobanu G., Balasanian 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 Chișinău & Alma Mater Bacău, **2004**, ISBN 9975-63-183-5, p. 420-423
18. 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
19. **Istrati L.**, Harja M., Ciobanu G., Gavrilă L. Obtention du carbonate de calcium d'usage pharmaceutique et cosmetique, Actes du troisième Collque Franco-Roumain 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
 20. **Istrati L.**, Gavrilă L., Grosu M. Recherches sur l'obtention de certains extraits des plantes 1.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
 21. **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
 22. 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,
 23. Gavrilă L., **Istrati L.**, Simion A.I. Valorisation des catalyseurs usés de type NiO/ α -Al₂O₃.3.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

Papers published in proceedings of national conferences with international participation

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 Scientists "Quality of Life"*, Timișoara, România (ISBN: 978-973-638-410-3), p. 121-128.
2. **Istrati L.**, Harja M., Gavrilă L. Obtaining of some advanced purity products by recovering some industrial wastes II. Obtaining of NiSO₄ 6 H₂O Proceedings of The International Conference "Agricultural and Food Sciences, Processes and Technologies", Third Edition, april 26-27, **2007**, Sibiu, Editura Universităţii "Lucian Blaga" Sibiu, 2007, ISBN 973-651-500-1, p. 115-118
3. **Istrati L.**, Ciobanu D., Leonte M., Ionaşcu D. Mathematical modeling of the bakery products obtaining process with oat bran supplement, Proceedings of The International Conference "Agricultural and Food Sciences, Processes and Technologies", Third Edition, april 26-27, **2007**, Sibiu, Editura Universităţii "Lucian Blaga" Sibiu, 2007, ISBN 973-651-500-1, p. 47-50
4. Ciobanu D., **Istrati L.**, Leonte M., Tulbure M., Ionaşcu D. Utilization of L- cysteine in bakery product obtaining, Proceedings of The International Conference "Agricultural and Food Sciences, Processes and Technologies", Third Edition april 26-27, **2007**, Sibiu, Editura Universităţii "Lucian Blaga" Sibiu, 2007, ISBN 973-651-500-1, p. 23-26
5. **Rusu L.**, Ciobanu D., Harja M., Tanţoş I. Researches concerning the obtainment of reliability packing for food industry I. The influence of PPE resin addition over paper packing functionality Proceedings of The 5th International Conference, "Integrated

- Systems for Agri-Food Production”, 22-24 november **2007**, Sibiu, ISBN 978-973-348-9, p. 295-298
6. Sion I., Dabija A., **Istrati L.** Some aspects concerning food safety of meat preparat, Proceedings of the International Conference “Agricultural and Food Sciences, Processes and Technologies”, Sections: Food technologies, Machinery, Quality control, Food science, may 12-13, Sibiu, Romania, **2005**, vol. 1, Ed. Universităţii „ Lucian Blaga” din Sibiu 2005, ISBN 973-739-094-6, p. 119-124
 7. **Istrati L.**, Harja M., Dabija A., Gavrilă L., Ciocan M. Researches cocerning the valorization of spent catalysts Ni/Al₂O₃ utilized in phenol hydrogenise, Proceedings of the International Conference “Agricultural and Food Sciences, Processes and Technologies” , Sections: Chemistry, Economics, energetics and ecology in food industry and agriculture, Computer application in food industry, Biotechnologies, may 12-13, Sibiu, Romania, 2005, vol. 2, Ed. Universităţii „ Lucian Blaga” din Sibiu **2005**, ISBN 973-739-095-4, p. 9-14
 8. Harja M., **Istrati L.** The recoveral of sodium sulphate by salifiation, Proceedings of the International Conference “Agricultural and Food Sciences, Processes and Technologies” , Sections: Chemistry, Economics, energetics and ecology in food industry and agriculture, Computer application in food industry, Biotechnologies, may 12-13, Sibiu, Romania, **2005**, vol. 2, Ed. Universităţii „ Lucian Blaga” din Sibiu 2005, ISBN 973-739-095-4, p. 51-54
 9. Gavrilă L., Gavrilă D., Fînaru A., **Istrati L.**, Simion A. I. Possibilities of bofilms control in the industrial water cooling systems, Lucrările celui de al VIII-lea simpozion de chimia coloizilor și suprafețelor, 2-4 iunie, 2005, Galați, România, Ed. Academica, Galați, **2005**, ISBN 973-8316-84-7, p. 120-126,
 10. Gavrilă L., Fînaru A., **Istrati L.**, Apetrii I. Modeling of the Physical Properties of Apple Juice II.Thermal Conductivity, Proceedings of the International Conference “Integrated Systems for Agri-Food Production, SIPA’03”, 20-23 november 2003, Timișoara, România, Ed. Orizonturi Universitare Timișoara, **2003**, ISBN 973-638-066-1, p. 57-62
 11. **Istrati L.**, Harja M. Contribuții privind îmbunătățirea calității și siguranței produsului carne de vită în suc propriu prin implementarea sistemului HACCP, Lucrările Simpozionului Internațional “ Euro-aliment 2003”, 23-25 octombrie 2003, Galați, Ed. Academica Galați **2003**, ISBN 973-8316-68-5, p. 368-372
 12. **Istrati L.**, Harja M., Nistor D., Gavrilă L. Obținerea unui îngrășământ ecologic pentru zonele montane, International Conference “ Agricultural and Food Sciences, Processes and Technologies”, 31 oct.-1 noi. 2002, Editura Universității “Lucian Blaga” Sibiu, **2002**, ISBN 973-651-500-1, p. 164-169
 13. Nistor D., Siminiceanu I., Azzouz A., **Istrati L.** Obținerea argilelor modificate chimic, International Conference “Agricultural and Food Sciences, Processes and Technologies”, 31 oct.-1 noi. 2002, Editura Universității “Lucian Blaga” Sibiu, **2002**, ISBN 973-651-500-1, p. 170-177
 14. Harja M., **Istrati L.**, Nistor D. Simularea și testarea modelului matematic al reactorului de absorbție a CO₂ în soluții activate, International Conference “Agricultural and Food Sciences, Processes and Technologies”, 31 oct.-1 noi. **2002**, Editura Universității “Lucian Blaga” Sibiu, 2002, ISBN 973-651-500-1, p. 178-181,
 15. **Istrati L.**, Balasanian I. Cercetări privind valorificarea catalizatorului de nichel de hidrogenarea uleiurilor vegetale, a-XXIII - a Sesiune de comunicări științifice, Călimănești - Căciulata ,Vâlcea 8-10 oct., vol II, secț.II **1997**
 16. **Istrati L.**, Balasanian I. Cercetări privind utilizarea sărurilor de amoniu ca agenți de selectivi de extracție. A-XXIII - A Sesiune de comunicări științifice, Călimănești – Căciulata, Vâlcea 8- 10 oct, vol II, secț. II, **1997**

17. **Istrati L.**, Balasanian I. Cercetări privind cinetica procesului de extracție a cuprului din catalizatorii uzați Cu-Mg- Al₂O₃, a-III-a Sesiune de comunicări științifice, 23-25 oct. Olănești Vâlcea, **1996** vol. II secț. II, p. 570-575

Papers presented at international conferences / national with international participation (selection 2012-2015)

1. **Lacramioara RUSU**, Maria HARJA, Daniela SUTEU, Andrei SIMION, Lidia FAVIER, 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**
2. Lacramioara RUSU, Maria Harja, Daniela Suteu, Lidia Favier, Adriana DABIJA, The levels of radionuclides and heavz 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**
3. **Lăcrămioara Rusu**, Mirela Suceveanu, Daniela Șuteu, Lidia Favier, Maria Harja, Assessment of grounwater 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.**
4. **Lacramioara RUSU**, Maria Harja, Daniela Suteu, Lidia Favier, Adriana DABIJA: Risk assesment of population exposure to organochlorine pesticides through milk in Bacau area, Romania, **ECOLOGY AND PROTECTION OF ECOSYSTEMS THE 11TH EDITION** , Bacau, 5 – 7 Noiembrie 2015, www.epe.ro, Publicare* **BOOK OF ABSTRACT ECOLOGY AND PROTECTION OF ECOSYSTEMS THE 11TH EDITION, p.108**
5. **Lacramioara RUSU**, Christophe VIAL, Daniela SUTEU, Lidia FAVIER, Maria HARJA, Iuliana Mihaela LAZAR, 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.
6. **Lacramioara RUSU**, Christophe VIAL, Fabrice AUDONNET, Maria HARJA, Daniela SUTEU, Lidia FAVIER, Iuliana Mihaela LAZAR, FLY ASH-DERIVED ZEOLITES AS ADSORBENTS FOR POLLUTANT REMOVAL FROM WASTEWATER, *Second International Conference on NATURAL AND ANTHROPIC RISKS ICNAR 201*, 4-7 iunie 2014, Bacău, România, <http://icnar.ub.ro/en/>, Publicare* *Volum de rezumate* (ISSN 2360-4018)
7. Daniela SUTEU, Carmen ZAHARIA, Catalin POPOVICI, Teodor MALUTAN, **Lacramioara RUSU**, Lucian TABACARU, WOOD WASTES AS A RENEWABLE SOURCES 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)

8. Kadmi Yassine Favier Teodorescu Lidia Simion Andrei-Ionut **Rusu Lacramioara** Wolbert Dominique , 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)
9. D. SUTEU , G. BILIUTA, **L. RUSU**, S. COSERI, 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)
10. Y. KADMI, L. FAVIER, A. SIMION, **L. RUSU**, M. HARJA, D.WOLBERT, 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)
11. Favier Teodorescu Lidia Simion Andrei-Ionut **Rusu Lacramioara** Ahunbay Goktug Bouzaza Abdelkrim, Kinetics of the photocatalytic degradation of clofibrac 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/>
12. Elena TANASA , Nidal FAYAD, Tania YEHIA , **Lacramioara RUSU**, Christophe VIAL, Daniela SUTEU, 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 septembre 2014, www.cofroca.org, Publicare*: *Actes du Huitième Colloque Franco-Roumain de Chimie Appliquée 2014*, ISSN 2068-6382, p. 117.
13. **Lăcrămioara RUSU**, Mirela SUCEVEANU, Daniela ȘUTEU, Maria HARJA, 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 septembre 2014, www.cofroca.org, Publicare*: *Actes du Huitième Colloque Franco-Roumain de Chimie Appliquée 2014*, ISSN 2068-6382, p. 143.
14. Yassine KADMI, Lidia FAVIER, **Lacramioara RUSU**, Andrei SIMION, Christophe VIAL, Dominique WOLBERT, 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 septembre 2014, www.cofroca.org, Publicare*: *Actes du Huitième Colloque Franco-Roumain de Chimie Appliquée 2014*, ISSN 2068-6382, p. 93.
15. 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 septembre 2014, Montpellier, Franța, <http://www.cofroca.org/>
16. **Lăcrămioara Rusu** , Maria Harja, Andrei Ionuț Simion, Daniela Suteu, Lidia Favier, 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*
17. **Lacramioara RUSU**, Gabriela BUEMA, Daniel Mircea SUTIMAN, Maria HARJA, 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.cofrroca.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

18. Lacramioara RUSU, Maria HARJA, Lidia FAVIER, Cristina GRIGORAS, Andrei SIMION, Daniela ȘUTEU, UTILISATION DE LA TOURBE ROUGE ET BRUNE POUR L'ENLEVEMENT DES POLLUANTS DES EAUX USEES MUNICIPALES ET INDUSTRIELLES, 7^{ème} Colloque Franco-Roumain de Chimie Appliquée COFrRoCA 2012, Bacău, 27-29 iunie 2012, www.cofrroca.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

Books and book chapters

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. Tehnică–Info Chișinău , Republica Moldova, 2002, ISBN 9975-63-147-9, 218 pag.,

Research projects

Project director

1. Study regarding the influence of pollutant factors of S.C. PAL EKC S.R.L. industrial plant on the environment, No. 3318 / 09.05.2005 (2005 – 2006)
2. Obținerea unui îngrășământ ecologic pentru zonele montane. Grant de cercetare științifică, Beneficiar MCT, 1999,
3. Îngrășăminte lichide cu efect fungicid pentru cultura viței de vie și a pomilor fructiferi. . Grant de cercetare științifică, Beneficiar MCT, 1997-1998,
4. 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,
5. Tehnologie de obținere a auxiliarilor pentru industria firelor și fibrelor sintetice, a prelucrării maselor plastice și a cauciucului. Grant de cercetare științifică, Beneficiar MCT, 1993-1994,
6. Valorificarea catalizatorului uzat de la fabricarea margarinei, Grant de cercetare științifică ,Beneficiar MCT, 1993,

Team member

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 interdisciplinară 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**,

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