

LISTA DE LUCRĂRI

Conf. univ. dr. chim. Ifrim Irina Loredana

a) Teza de doctorat

Contribuții privind depoluarea apelor prin decolorare cu valorificarea poluanților din tehnologia celulozei sulfat (noiembrie 2003).

b) Cărți publicate în edituri recunoscute

1. Biotehnologii de epurare a apelor uzate, **Ifrim I.L.**, Editura PIM, ISBN 973-716-592-6, 2007, 118p
2. Electrochimie și coroziune, **Ifrim I.**, Editura Alma Mater, ISBN 978-973-8392-94-2, 2007, 112p
3. Controlul calității produselor alimentare și biotehnologice, **Ifrim I.**, Grosu L., Editura Alma Mater, ISBN 978-973-8392-95-3, 2007, 167p

c) Volume editate

1. Actes du septième COLLOQUE FRANCO-ROUMAIN DE CHIMIE APPLIQUÉE, COFrRoCA – 2012, **Ifrim I.**, FÎNARU A., GAVRILĂ L., ALEXA I., GUILLAUMET G., GRANDCLAUDON P., Editura Alma Mater, ISSN 2068-6382, 303p.
2. Actes du huitième COLLOQUE FRANCO-ROUMAIN DE CHIMIE APPLIQUÉE, COFrRoCA – 2014, BĂRBOIU M., FÎNARU A., GAVRILĂ L., **Ifrim I.**, PATRICIU O., ALEXA I., GROSU L., GUILLAUMET G., GRANDCLAUDON P., HULEA V., LEGRAND Y-M., DUMITRU F., Editura Alma Mater, ISSN 2068-6382, 151p.
3. Actes du dixième COLLOQUE FRANCO-ROUMAIN DE CHIMIE APPLIQUÉE, COFrRoCA – 2018, Editura Alma Mater, ISSN 2068-6382, 130p.

d) Articole publicate în reviste de specialitate de circulație internațională (ISI)

1. Sandu-Bălan, A., Ștefănescu, I.-A., Patriciu, O.-I., Măță, L., Ifrim, I.-L.*, Fînar, A.-L. (2026). Teaching Sustainable Chemistry & Circular Economy in Lower Secondary Schools: A Comparative Study of Traditional and STEM Methods. *Sustainability*, 18(9), 4539, . <https://doi.org/10.3390/su18094539> WOS:001764030000001
2. Irina-Loredana Ifrim*, Ionuț Avătămăniței, Oana-Irina Patriciu*, Cristina-Gabriela Grigoraș, Adriana-Luminița Fînar, *Natural Mineral Waters as Solvents for Sustainable Extraction of Polyphenolic Compounds from Aronia Stems*, *Foods* **2026**, **15(2)**, 406, F.I.=5,1; <https://doi.org/10.3390/foods15020406> WOS:001671283600001
3. Andreea Georgiana Roșcan; **Irina-Loredana Ifrim***; Oana-Irina Patriciu; Adriana-Luminița Fînar*, *Exploring the therapeutic value of some vegetative parts of Rubus and Prunus: a literature review on bioactive profiles and their pharmaceutical and cosmetic interest*, *Molecules*, Special Issue "Natural Products with Pharmaceutical Activities" 2025, 30 (15), 3144, FI = 4,6, <https://doi.org/10.3390/molecules30153144> WOS:001549469500001
4. **Irina-Loredana Ifrim**, Elena-Mirela Suceveanu*, Ioana-Adriana Ștefănescu, *THE IMPACT OF ULTRASOUND TREATMENT ON THE QUALITY OF DIFFERENT WINE VARIETIES*, Scientific Study And Research-Chemistry

- And Chemical Engineering Biotechnology Food Industry, ISSN 1582-540X, **2024**, 25 (3), 301-311, FI=0,3, <https://doi.org/10.29081/ChIBA.2024.608> WOS:001334270100006
5. R. Ababei, A. Sandovici, **I.L.Ifrim**, C. Ababei, C.M. Gorgan, C. Nechifor, *The importance of nutrition in structuring the locus of control*, Revista Românească pentru Educație Multidimensională, ISSN: 2067-9270, **2024**, 16 (2), 138-151, FI=0,6, <https://doi.org/10.18662/rrem/16.2/850> WOS:001318538200008
 6. Anca Sandu-Bălan (Tăbăcariu), **Irina-Loredana Ifrim***, Oana-Irina Patriciu*, Ioana-Adriana Ștefănescu; Adriana-Luminița Fînaru, *Walnut By-Products and Elderberry Extracts—Sustainable Alternatives for Human and Plant Health*, Molecules, Special Issue Phytochemicals: Extraction, Bioactivities and Applications, ISSN 1420-3049, **2024**, 29(2), 498-518, FI=4,6 <https://doi.org/10.3390/molecules29020498>; WOS:001151352600001
 7. Ababei C., **Ifrim I.L.***, Sandovici A., Ababei A., *ASPECTS REGARDING THE EFFECTS OF THE COVID-19 PANDEMIC ON THE 10 – 11-YEAR-OLD CHILDREN'S ACTIVE MOTOR, DIETARY, AND PSYCHOLOGICAL BEHAVIOR*, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, ISSN 1582-540X, **2023**, 24 (2),127-144, FI=0,3; WOS:001025811900004
 8. Ștefănescu I., **Ifrim I.L.**, *URTICA DIOICA AND ZINGIBER OFFICINALE EXTRACTS WITH AGRO-FOOD AND PHARMACEUTICAL APPLICATIONS*, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, ISSN 1582-540X, **2023**, 24 (2),173-181, FI=0,3; WOS: 001025811900007
 9. Ababei C., **Ifrim I.L.**, Ababei A., Alexe C.I., Mandigout S., *Influence of climate and nutrition on the physical training of national level long-distance runners-case study*, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, ISSN 1582-540X, **2022**, 23 (2),155-166, FI=0,3; WOS: 000832316100006
 10. Andrei S., **Ifrim I.L.***, *Structural and physico-chemical properties analysis of soil and needles for two forest areas covered with fir: one affected and one unaffected by tree drying*, Fresenius Environmental Bulletin, **2021**, 30 (11A), ISSN 1018-4619, 12123-12133, FI=0,618; WOS: 000716443600006
 11. Andrei S., **Ifrim I.L.***, *IPS infestation – a global problem for coniferous in the face of climate change*, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, **2021**, 22 (2), ISSN 1582-540X, 245-261, FI=0; WOS:000681369800010
 12. Ababei C., Ababei R., **Ifrim I.L.***, Ababei A., *Study regarding the influence of exercise and diet on the improvement of health during the coronavirus pandemic*, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, **2020**, 21 (3), ISSN 1582-540X, 407-421, FI=0; WOS: 000577523900008
 13. Rachieru M., Faciu M.E., **Ifrim I.**, Ștefănescu I., Kamari A., Stamate M., Lazar I., *Heavy metals and gamma radioactivity bioaccumulation in Artemisia absinthium L. grown on a waste dump*, Environmental Engineering And Management Journal, **2017**, 16 (4), ISSN: 1582-9596, 859-867, FI=1,096 WOS:000405831300011
 14. Lazar G., Faciu M.E., Atkinson PM, **Ifrim I.**, Lazar I., *Assessment of Mn pollution in Bacau, Romania and its relation to multiple covariates*, Fresenius Environmental Bulletin, **2017**, 26 (4), ISSN 1018-4619, 2879-2883, FI=0,425; WOS:000400806100050
 15. Suceveanu, I., Alexa I.-C., Grosu L., Patriciu O., **Ifrim I.**, Suceveanu M., *Application of the HACCP method in the swine abattoir by scalding-skinning ecological*, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, **2017**, 18 (1), ISSN 1582-540X, 73-84 FI=0; WOS:000396720500008

16. Cocarcea Rusei A., Stefanescu I., **Ifrim I.***, *Effects of Different Pretreatments on Biomass Composition Evaluated by Spectral and Chemometric Techniques*, Environmental Engineering And Management Journal **2016**, **15** (3), ISSN: 1582-9596, 635-644, FI=1,065; WOS:000376876400018
17. Raducanu D., Stefanescu I., **Ifrim I.**, Patriciu O.I., Rati I.V., Prisecaru M., Stamate M., Lazar I., *Effects of different sanitization treatments on soil characteristics*, Environmental Engineering And Management Journal **2016**, **15** (3), ISSN: 1582-9596, 624-634, FI=1,065; WOS:000376876400017
18. Raducanu, D., Stefanescu, I., **Ifrim, I.**, Zirnea, S., Nicuta, D., Rati, V., Lazar, I., *Ecotoxicological Assessment Of Anaerobic Stabilized Sewage Sludge Subjected To Sanitization Treatments*, Environmental Engineering And Management Journal **2014**, **13** (7), ISSN: 1582-9596, 1693-1706, FI=1,258; WOS:000344577400018
19. Kamda, A.G.S., Fokou, E., Loh, M.B.A., Raducanu, D., Kansci, G., **Ifrim, I.**, Lazar, I., *Protective Effect Of Edible Cucurbitaceae Seed Extract From Cameroon Against Oxidative Stress*, Environmental Engineering And Management Journal **2014**, **13** (7), ISSN: 1582-9596, 1721-1727, FI=1,258; WOS:000344577400021
20. Faciu, M.E., Lazar, I., **Ifrim, I.**, Ureche, C., Lazar, G., *Exploratory Spatial Data Analysis Of Heavy Metals Concentration In Two Sampling Sites On Siret River*, Environmental Engineering & Management Journal **2014**, **13** (9), ISSN: 1582-9596, 2179-2186, FI=1,258; (6 citare) WOS:000347161400008
21. Nechita, E., Nicuță, D., **Ifrim, I.L.**, Păcurari, D., Crișan, G.C., *On blended collaborative learning. Case study: a project on raising awareness regarding GMOs*, Procedia-Social and Behavioral Journal (ISSN: 1877-0428) (Proceeding ISI), **2014**, **116**, 3322-3326, FI=0,00; WOS:000335471203081
22. Nshimiyimana François X., Faciu Maria Ema, El Abidi Abdellah, El Blidi Souad, Fekhaoui Mohamed, **Ifrim Irina Loredana**, Soulaymani Abdelmajid, Lazar Gabriel, *Analysis Of Seasonal Variation On Degree Of Contamination With Heavy Metals In Aarjate Village, Morocco. An Index Approach*, Scientific study & research chemistry, chemical engineering, biotechnology, food industry, **2014**, **15**(4), ISSN 1582-540X, p.337-344, WOS:000217257500007
23. Lazar I., Mata L., **Ifrim I.**, Mateian C., Lazar G., *Integrated teaching and learning methods in environmental sciences using interactive ceramic whiteboards with integrated sound (ēno) and Spark Science Learning System*, EDULEARN13 Proceedings, 5th International Conference on Education and New Learning Technologies, ISBN 978-84-616-3822-2, July 1st-3rd, **2013** — Barcelona, Spain, p. 3396-3402, (Proceeding ISI) (2 citare) WOS:000346798303059
24. Lazar I.M., **Ifrim I.L.**, Grosu L., Lazar G., *Modifications Induced by UV-VIS Irradiation on DNA Extract of Kiwifruit Investigated by Spectroscopic and Statistic Methods*, Spectroscopy Letters, **2013**, **46**(2), 81-86, DOI: 10.1080/00387010.2012.668742, ISSN 0038-7010 (Print), 1532-2289 (Online), FI: 0.667; SRI: 0,34731 (2 citare) WOS:000314157400001
25. Lazar I.M., **Ifrim I.L.**, Nicuță D., Nistor D., Lazăr G., *Macro and ultra-micro scale changes of rapeseed seedlings germinated from seeds exposed to UVA-VIS radiations*, Environmental Engineering and Management Journal **2013**, **12** (1), ISSN: 1582-9596, 49-57, IF=1,117; SRI=0 (4 citare) WOS:000317803300007
26. Faciu M.E., **Ifrim I.L.**, Lazar G., *Building an integrated environmental monitoring system for heavy metals in romanian soils: Moldova region case study*, Environmental Engineering and Management Journal **2012**, **11** (12), ISSN: 1582-9596, 2185-2201, IF=1,004; SRI=0 (9 citari) WOS:000314169000010

27. Lazar I.M., **Ifrim I.L.**, Nicuță D., Stamate M., *Evaluation of growth parameters and spectroscopic indexes of canola from seeds subjected to non-ionizing radiation stress*, Environmental Engineering and Management Journal **2012**, **11** (12), ISSN: 1582-9596, 2211-2221 IF=1,004; SRI=0 (3 citari) WOS:000314169000012
28. Lazar G., Ureche D., **Ifrim I.L.**, Stamate M., Ureche C., Nedeff V., Nistor I.D., Finaru A.L., Lazar I.M., *Effects of the environmental stress on two fish populations revealed by statistical and spectral analysis*, Environmental Engineering and Management Journal, **2012**, **11** (1), ISSN: 1582-9596, 109-125 IF=1,004(1,117); SRI=0 (7 citări) WOS:000301546400016
29. Lazar I.M., Moroi A.M., **Ifrim I.L.***, Vartolomei N., Aruș A.V., *Wheat flour humidity variation with UV-VIS radiation dose revealed by spectral and chemometric studies*, Scientific study & research chemistry, chemical engineering, biotechnology, food industry **2012**, **XIII**(2), ISSN 1582-540X, p. 253-262; ISI WOS:000217234700015
30. Lazăr I.M., Nicuță D., Troțuș E., **Ifrim I.L.***, *Morphological changes during rapeseed samples (brassica napus) exposed to non-ionizing radiation*, Studii și Cercetări Științifice: Chimie și inginerie chimică – Biotehnologii – Industrie alimentară, **2011**, **XII**(4), ISSN 1582-540X, p. 401-408 WOS:000217231400011
31. **Ifrim I.***, Ciobanu D., Grosu L., *Influența reziduurilor asupra apelor subterane*, Revista de Chimie, **2007**, **58** (6), ISSN 0034-7752, p. 589-590 IF=0,261; SRI=0.09274 WOS:000247763000021
32. **Ifrim I.**, Ciobanu D., Andrioai G., *A preliminary impact study upon the environment factors in the case of the waste waters depollution that comes from the pulpy industry with mixture of H_3PO_4 and DAP*, Studii și Cercetări Științifice – Chimie și Inginerie Chimică, Biotehnologii, Industrie Alimentară, **2007**, **VIII** (2) ISSN 1582-540X, Bacău, p. 185-190 WOS:000217205400009
33. Cacig S., Radu F., Lupea A., **Ifrim I.**, *Analiza flavonoidelor din Hydrangea paniculata si Ziziphus jujuba prin flash cromatografie de lichide de inalta performanta*, Revista de Chimie, **2006**, **57**(12), ISSN 0034-7752, p. 1197-1201 IF=0,261(0,538); SRI=0.09274 (2 citări) WOS:000243897600002

e) Articole publicate în reviste de specialitate de circulație internațională (indexate în baze de date internaționale)

1. **Ifrim I.**, Ciobanu D.- *“Contributions wiewing the Reduction of the Polluting Degree for Sulphate Waste Waters through the Process of Lignine Flocculation with H_3PO_4 and DAP”*- Studii și Cercetări Științifice – Chimie și Inginerie Chimică, Biotehnologii, Industrie Alimentară, **2003**, **IV** (1-2), , ISSN 1582-540X, Bacău, p. 117-122
2. **Ifrim I.**, Ciobanu D.- *“The H_3PO_4 ’s Influence on the Depollution of the Waste Waters Originated in the Production of Sulphate Pulp”*- Studii și Cercetări Științifice – Chimie și Inginerie Chimică, Biotehnologii, Industrie Alimentară, **2003**, **IV** (1-2), , ISSN 1582-540X, Bacău, p. 123-126
3. **Ifrim I.**, Ciobanu D.- *“Aspects Concerning the Characterization of Residual Black Liquors from Softwood Kraft Pulping”*- Sudii și Cercetări Științifice – Chimie și Inginerie Chimică, Biotehnologii, Industrie Alimentară, **2002**, **III** (1-2), , ISSN 1582-540X, Bacău, p. 71-74
4. **Ifrim I.**, Ciobanu D., *The Influence of H_2SO_4 Addition on Colour Index and of Oxigen Chemical Consumption Coming from Sulphate Cellulose Fabrication Technology*, Sudii și Cercetări Științifice – Chimie și Inginerie Chimică, Biotehnologii, Industrie Alimentară, **2001**, **I** (1-2), ISSN 1582-540X, Bacău, p.95-98

5. Fînaru, A., Cașcaval, Al., **Tirișcă I.**, Prisecaru M., *Synthèse de Bases de Mannich-Werner de type 4-Chromanones*, Journal de la Société Algérienne de Chimie, **1999**, 9(1), ISSN 1111-4797, p. 85-90

f) Articole publicate în volumele unor conferințe internaționale

1. Proceedings of the Union of Scientists – Ruse Fifth Conference Energy Efficiency and Agricultural Engineering Association of Agricultural Engineering in Southeastern Europe, Ruse, Bulgaria, 17-18 May 2013, *Monitoring the effect of cypermethrin in soil on rapeseed growth*, Sorina Zirnea, Cucu Marius Bogdan, Stelian Cartacuzencu, Irina Ifrim, Iuliana Lazar (2013) pg. 397-405, ISSN 1311-9974; 6 Proceedings Ruse 2013
2. **Ifrim I.**, Nedelcu C., Ciobanu D. - “*Contributions regarding the water quality evaluation from Vrancea county, Siret hydrographical basin III. The hydro chemical characterization Siret River*” - Modelling and Optimization in the Machines Building Field, **2005**, MOCM 11(2), ISSN 1224-7480, p. 33-38
3. **Ifrim I.**, Nedelcu C., Ciobanu D. - “*Contributions regarding the water quality from Siret Hydrographical Basin - Modelling and Optimization in the Machines Building Field*, **2005**, MOCM 11(2), ISSN 1224-7480, p. 39-42
4. Nedelcu C., **Ifrim I.**, Ciobanu D. - “*Contributions regarding the water quality from Siret hydrographical basin. I. The hydro chemical characterization of the rivers from the Putna basin: Milcov and Râmna rivers*” - Modelling and Optimization in the Machines Building Field, **2005**, MOCM 11(2), ISSN 1224-7480, p. 94-99
5. Nedelcu C., **Ifrim I.**, Ciobanu D. - “*Contributions regarding the water quality evaluation from Vrancea county, Siret hydrographical basin II. The hydro chemical characterization of Putna river*” - Modelling and Optimization in the Machines Building Field, **2005**, MOCM 11(2), ISSN 1224-7480, p. 100-103
6. Ciobanu D., **Ifrim I.** – “*The Use of the Lignin in the Technology of the Casting Mixture*” - Modelling and Optimization in the Machines Building Field, **2003**, MOCM 9, ISSN 1224-7480, Bacău, p. 209-211
7. Ciobanu D., **Ifrim I.** – “*The Use Of Lignin In The Technologies Of Wood Industrialization The Obtaining Of The Particle Board*” – Modelling and Optimization in the Machines Building Field, **2003**, MOCM 9, ISSN 1224-7480, Bacău, p. 212-215
8. Fînaru, A., **Ifrim, I.**, Cașcaval, Al., Sinteza și studiul activității biologice a unor compuși de tipul alchil orto-hidroxi-fenil cetonelelor substituite, Conferința Internațională ALTEXIM II, Sibiu 17-18 noiembrie 2000, Buletinul Științific al Universității „Lucian Blaga” Sibiu 2000, ISBN 973-651-157-X, p. 70-75

g) Conferințe internaționale sau naționale cu participare internațională

1. Roșcan, A.G., **Ifrim, I.-L.**, Patriciu, O.-I., Fînaru, A.-L.: „Valorization of vegetable waste through the extraction of bioactive compounds”, Doctoral School Days „Innovation and Doctoral Research” at “Vasile Alecsandri” University of Bacau, Romania, 20 – 22 mai 2025, Bacău (România), comunicare orală, conferință internațională.
2. Ionuț Avătămăniței, Oana-Irina Patriciu, **Irina-Loredana Ifrim**, Cristina-Gabriela Grigoraș, Adriana-Luminița Fînaru, THE INFLUENCE OF THE EXTRACTION CONDITIONS ON THE ACTIVE COMPONENTS FROM SOME BY-PRODUCTS OF BLACK CHOKEBERRY (ARONIA MELANOCARPA), *The 20th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2025*, Bacău 21-23 mai 2025, <http://oproteh.ub.ro/>
3. Anca Sandu - Bălan (Tăbăcariu), Oana-Irina Patriciu, Ioana-Adriana Ștefănescu, **Irina-Loredana Ifrim**, Adriana-Luminița Fînaru, PRELIMINARY PHYTOCHEMICAL ANALYSIS AND ANTIOXIDANT CAPACITY EVALUATION OF DIFFERENT *JUGLANS REGIA* AND *SAMBUCUS NIGRA* EXTRACTS, Doctoral School Days „Innovation and Doctoral Research” at “Vasile Alecsandri” University of Bacau, Romania, 20 – 22 mai 2025, Bacău (România)

4. Ioana Adriana Ștefănescu, Oana-Irina Patriciu, **Irina-Loredana Ifrim**, EFFECT OF GINGER EXTRACT FOR PORK MEAT PRESERVATION, *The 20th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2025*, Bacău 21-23 mai 2025, <http://oproteh.ub.ro/>
5. Andreea Georgiana Roșcan, **Irina-Loredana Ifrim**, Oana-Irina Patriciu, Adriana-Luminița Fînar, BIOACTIVE COMPOUNDS FROM ORCHARD WASTE: A PHARMACOLOGICAL PERSPECTIVE ON RUBUS AND PRUNUS SPECIES, *The 20th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2025*, Bacău 21-23 mai 2025, <http://oproteh.ub.ro/>
6. Elena-Mirela Suceveanu, **Irina-Loredana Ifrim**, LATEST ADVANCES IN METHODS TO PREDICT WINE STABILITY, *The 20th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2025*, Bacău 21-23 mai 2025, <http://oproteh.ub.ro/>
7. Elena-Mirela Suceveanu, **Irina-Loredana Ifrim**, STRATEGIES TO IMPROVE MELOMEL PRODUCTION, *National Conference of Chemistry, XXXVII Edition*, Târgoviște, 25-27.09.2024, www.icstm.ro/cnchim-2024
8. Anca Sandu - Bălan (Tăbăcariu), Oana-Irina Patriciu, Ioana-Adriana Ștefănescu, Irina-Loredana Ifrim, Adriana-Luminița Fînar, *SAMBUCUS NIGRA L.: a SOURCE OF BIOACTIVE COMPOUNDS WITH ANTIFUNGAL EFFECTS*, *National Conference of Chemistry, XXXVII Edition*, Târgoviște, 25-27.09.2024, www.icstm.ro/cnchim-2024
9. Elena-Mirela Suceveanu, **Irina-Loredana Ifrim**, FRUIT AND FLOWER MEADS: OBTAINING, PHYSICO-CHEMICAL AND SENSORY CHARACTERISTICS, *The 19th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2024*, Bacău 22-24 mai 2024, <http://oproteh.ub.ro/>
10. Anca Sandu - Bălan (Tăbăcariu), Oana-Irina Patriciu, Ioana-Adriana Ștefănescu, **Irina-Loredana Ifrim**, Adriana-Luminița Fînar, ANTIFUNGAL ACTIVITY AND PHYTOCHEMICAL ANALYSIS OF WALNUT (*JUGLANS REGIA*) EXTRACTS, *The 19th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2024*, Bacău 22-24 mai 2024, <http://oproteh.ub.ro/>
11. Anca Sandu - Bălan (Tăbăcariu), Oana-Irina Patriciu, Ioana-Adriana Ștefănescu, **Irina-Loredana Ifrim**, Adriana-Luminița Fînar, ANTIFUNGAL ACTIVITY OF EXTRACTS FROM *SAMBUCUS NIGRA* AND *JUGLANS REGIA* BY-PRODUCTS, *The 7th International Conference of the Doctoral School at the "Gheorghe Asachi" Technical University of Iasi (TUIASI)*, 15-17 mai 2024, Iași, <https://conferinta-csd.tuiasi.ro/>
12. Anca Sandu Bălan (Tăbăcariu), Oana-Irina Patriciu, Ioana-Adriana Ștefănescu, **Irina-Loredana Ifrim**, Adriana-Luminița Fînar, *SAMBUCUS NIGRA L.: CHARACTERIZATION OF ELDERBERRY EXTRACTS OBTAINED BY VARIOUS METHODS*, *The 18th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2023*, Bacău 11-13 mai 2023, <http://oproteh.ub.ro/>
13. Anca Sandu Bălan (Tăbăcariu), Oana-Irina Patriciu, Ioana-Adriana Ștefănescu, **Irina-Loredana Ifrim**, Adriana-Luminița Fînar, THE INFLUENCE OF THE EXTRACTION METHODS ON THE ANTIFUNGAL POTENTIAL OF THE WALNUT (*JUGLANS REGIA L.*), *Innovation and doctoral research - Hybrid conference*, 10th-12th MAY 2023, Bacău
14. Ioana-Adriana Ștefănescu, **Irina-Loredana Ifrim**, Elena-Mirela Suceveanu, UREASE ACTIVITY IN GINGER (*ZINGIBER OFFICINALE*), *The 18th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2023*, Bacău 11-13 mai 2023, <http://oproteh.ub.ro/>
15. **Irina-Loredana Ifrim**, Ioana-Adriana Ștefănescu, Elena-Mirela Suceveanu, APPLICATION OF ULTRASOUND TREATMENT TO IMPROVE SENSORY CHARACTERISTICS IN RED WINES, *The 18th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2023*, Bacău 11-13 mai 2023, <http://oproteh.ub.ro/>
16. Anca Sandu Bălan (Tăbăcariu) , Oana-Irina Patriciu, Ioana-Adriana Ștefănescu, **Irina-Loredana Ifrim**, Adriana-Luminița Fînar, WALNUT (*JUGLANS REGIA L.*): BY-PRODUCTS ANALYSIS AND CAPITALIZATION, Conferința Națională de Chimie, ed. XXXVI, Călimănești-Căciulata, 04-07.10.2022, <https://chimcomplex.com/CNChim-2022/>
17. Sandu Bălan (Tăbăcariu) A., Patriciu O.I., Ștefănescu I.A., **Ifrim I.L.**, Fînar A.L., The influence of the extraction conditions on the active components from by-products of walnut (*Juglans Regia l.*), *17th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2022*, Bacău, 25 – 27 mai 2022, <http://oproteh.ub.ro/>

18. Suceveanu E.M., Ștefănescu I.A., **Ifrim I.L.**, The influence of ultrasonication on the physico-chemical parameters of different varieties of wine, *17th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2022*, Bacău, 25 – 27 mai 2022, <http://oproteh.ub.ro/>
19. Ștefănescu I.A., **Ifrim I.L.**, Suceveanu E.M., Catalase activity of polluted spontaneous flora, *17th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2022*, Bacău, 25 – 27 mai 2022, <http://oproteh.ub.ro/>
20. Sandu Bălan (Tăbăcariu) A., Patriciu O.I., Ștefănescu I.A., **Ifrim I.L.**, Fînaru A.L., Walnut (*Juglans regia* L.) - present and perspectives on phytosanitary activity, "Gheorghe Asachi" Technical University of Iasi, Romania 5th International Conference of the Doctoral School May 18 - 20, 2022, Iasi, Romania
21. Alexa I.C., Suceveanu E.M., Grosu L., Patriciu O.I., **Ifrim I.L.**, Fînaru A.L., Approches for honey-based functional foods obtention, *International Conference Inteligent Valorisation of Agro-Industrial Wastes, IWastes*, Chișinău, Moldova, 07.10.2021, <https://intelawastes.utm.md>
22. Alexa I.C., Suceveanu E.M., Grosu L., Patriciu O.I., **Ifrim I.L.**, Fînaru A.L., Honey – A Potential Source Of Functional Foods, *OPROTEH 2021*, Bacau, 25-27.05.2021,
23. Suceveanu E.M., Alexa I.C., **Ifrim I.**, Influence of honey types on the consumer acceptance of artisanal mead, *Advances in Food Chemistry Conference, AdFoodChem 2021*, 15-17th April 2021, <https://adfoodchem.wixsite.com/index>
24. Elena-Mirela Suceveanu, Irina-Claudia Alexa, Petronela Bran, Luminița Grosu, Irina Ifrim, Oana-Irina Patriciu, Adriana-Luminița Fînaru, Valorization of Grape Pomace for Obtaining Fortified Innovative Product with Honey, *21st Romanian International Conference on Chemistry and Chemical Engineering, RICCE 21*, Constanta- Mamaia, ROMANIA - September 4 – 7, 2019, <http://ricce21.chimie.upb.ro/>
25. Suceveanu, E.-M., Grosu, L., **Ifrim, I.**, Patriciu, O.-I., Alexa, I.-C., Fînaru, A.-L., Valorificarea tescovinei in obtinerea unui produs fortifiant inovativ cu miere de albine, „European carbon footprint optimisation” – *ECO2 Protejarea mediului in contemporaneitate. Principii, strategii, perspective*, 26 iunie 2019, Bacău
26. Tâmpu R.I., Măciucă (Birtea) A.G., Patriciu O., **Ifrim I.**, Fînaru A., Elfakir C., Optimization of a solid phase extraction protocol for catecholamine analysis in sheep brain extract, *Book of Abstracts, 9th International Conference of the Chemical Societies of the South-Eastern European Countries, ICOSECS 2019*, 8-11 mai 2019, Târgoviște, România, www.icstm.ro/icosecs9,
27. Suceveanu, E.-M., Alexa, I.-C., Grosu, L., **Ifrim, I.**, Patriciu, O.-I., Fînaru, A.-L., Valorization of grape pomace for obtaining fortified innovative product with honey, *Conference Proceedings Abstracts, International Conference of Applied Sciences, CISA 2019, Eleventh Edition*, 22-24 mai 2019, Bacău, România, <http://cisaconf.ub.ro/>
28. Dumitra Raducanu, Daniela Nicuta, Elena Goldan, **Irina Ifrim**, Ioana Stefanescu, Ioan Viorel Rati, Iuliana Lazar, *Evaluation de la possibilité d'utilisation de boues d'épuration stabilisées par voie anaérobie au moyen de tests écotoxicologiques*, Dixième colloque franco-roumain de chimie appliquee – COFrRoCA 2018, 27 – 29 Juin 2018, Bacău, ROUMANIE, www.cofroca.ub.ro,
29. SUCEVEANU Mirela, ALEXA Irina-Claudia, GROSU Luminița, IFRIM Irina, VALORISATION OF PEPPERMINT (*MENTHA PIPERITA*) FOR OBTAINING TONIC BEVERAGES, ECOLOGY AND PROTECTION OF ECOSYSTEMS - THE 12th EDITION, 02.- 04.11 2017, Facultatea de Științe, Universitatea "Vasile Alecsandri" din Bacău, <http://www.epebacau.ro/>
30. Suceveanu M., Alexa I.C., Patriciu O.I., Grosu L., Ifrim I., Fînaru A., *MENTHA PIPERITA – POSSIBILITES D'OBTENTION DES BOISSONS ALCOOLISEES A L'EFFET TONIQUE*, *Modern Technologies in the Food Industry – 2016*, 20-22 octombrie 2016, Universitatea Tehnică a Moldovei Chișinău, Republica Moldova, <http://mtfi.utm.md>
31. Suceveanu I., Suceveanu M., Grosu L., Patriciu O.I., Alexa I.C., Ifrim I., Gavrilă L., Fînaru A., APPLICATION DE LA METHODE HACCP DANS L'ABATTOIR PORCIN PAR ÉCHAUDAGE-DÉPEÇAGE, *Modern Technologies*

in the Food Industry – 2016, 20-22 octombrie 2016, Universitatea Tehnică a Moldovei Chișinău, Republica Moldova, <http://mtfi.utm.md>

32. O.I Patriciu, I.C. Alexa, E.M. Suceveanu, L. Grosu, I.L. Ifrim, L. Gavrilă, A.L. Finaru, *Application des methodes d'analyse accesibles pour la determination du contenu des isoflavones de soja*, Neuvieme colloque franco-roumain de chimie appliquee – COFrRoCA 2016, 29 juin-01 juillet 2016, Clermont Ferrand, Franta, www.cofroca.ub.ro
33. R.I. Tâmpu, O.I Patriciu, I.C. Alexa, L. Grosu, I.L. Ifrim, N.C. Tâmpu, E. Herghelegiu, B.A. Chiriță, L. Gavrilă, A.L. Fînar, *Inhibiteurs "verts" de corrosion – potentielle application dans l'industrie alimentaire*, Neuvieme colloque franco-roumain de chimie appliquee – COFrRoCA 2016, 29 juin-01 juillet 2016, Clermont Ferrand, Franta, www.cofroca.ub.ro
34. I.-C. ALEXA, O.-I. PATRICIU, E.-M. SUCEVEANU, L. GROSU, I.-L. IFRIM, A.-L. FÎNARU, *STUDY ON THE USE OF AVAILABLE ANALYTICAL METHODS TO DETERMINE THE ISOFLAVONES IN SOY FLOURS TRADE*, International Conference of Applied Sciences, Chemistry and Chemical Engineering, Seventh Edition, 10TH EDITION 2016, Bacău, Romania, <http://cisaconf.ub.ro/02-04> JUNE 2016
35. Marius-Ionel Nadejde, Elena-Petronela Bran, Dorel Ureche, Iuliana Caraman, **Irina Ifrim**, *Structural investigations regarding the presence of metal complexes in fish scales, using nondestructive methods*, 11th international Conference on „Environmental Legislation, Safety Engineering and Disaster management” ELSEDDIMA, 26-28 mai 2016, Universitatea Babes-Bolyai Cluj-Napoca, <http://enviro.ubbcluj.ro/en/conference-elsedima-2016/>
36. Georgiana Rosu (Lacatusu), Maria-Ema Faciu, Iuliana-Mihaela Lazar, **Irina-Loredana Ifrim**, *Groundwater quality assesment using pollution index in an industrial area from Bacau city, Romania*, 11th international Conference on „Environmental Legislation, Safety Engineering and Disaster management” ELSEDDIMA, 26-28 mai 2016, Universitatea Babes-Bolyai Cluj-Napoca, <http://enviro.ubbcluj.ro/en/conference-elsedima-2016/> (comunicare orală)
37. PATRICIU Oana-Irina, ALEXA Irina-Claudia, SUCEVEANU Elena-Mirela, GROSU Luminița, RADU Steluța, **IFRIM Irina-Loredana**, FÎNARU Adriana-Luminița "Vasile Alecsandri" University, Bacau, *Studiu privind utilizarea unor metode analitice accesibile în determinarea izoflavonelor din făinurile de soia comerciale (Study on the use of available analytical methods to determine the isoflavones in soy flours trade)*, Congresul Internațional "Solul și hrana, resurse pentru o viață sănătoasă", 22 - 24 octombrie 2015, <http://www.uaiasi.ro/simpozion/index.php?lang=ro&pagina=program.html>
38. PATRICIU Oana-Irina, ALEXA Irina-Claudia, SUCEVEANU Elena-Mirela, GROSU Luminița, **IFRIM Irina-Loredana**, FÎNARU Adriana-Luminița, *Application of accessible analytical methods for isoflavones determination from soybean*, A XI-a ediție a simpozionului ECOLOGIA SI PROTECTIA ECOSISTEMELOR - EPE 2015 / Symposium ECOLOGY AND PROTECTION OF ECOSYSTEMS - THE XI-EDITION, 5-7 noiembrie 2015 Bacău, <http://www.epebacau.ro/>
39. Oana Acatrinei-Insuratelu, Dumitra Raducanu, **Irina Ifrim**, Lacramioara Rusu, *Analysis of the toxicity degree of some categories of compost using eisenia sp. As bioindicators*, The XI-th International Conference Oproteh 2015, 4-6 Iunie, Bacau, 2015 (comunicare), <http://oproteh.ub.ro;>
40. Elena Sarghe, **Irina Ifrim**, Irina Alexa, Oana Acatrinei-Insuratelu, Marius Nadejde, Petronela Bran, Adriana Finaru, *The occurrence of heavy metals in snow collected from Bacau city, Romania*, The XI-th International Conference Oproteh 2015, 4-6 Iunie, Bacau, 2015(comunicare), <http://oproteh.ub.ro;>
41. Mioara Sandulache, Maria Ema Faciu, **Irina Ifrim**, Adriana Finaru, Iuliana Lazar, *Variation of biochemical and biometrical parameters of Artemisia Absinthium L. in time and space from phosphogypsum dump*, The XI-th International Conference Oproteh 2015, 4-6 Iunie, Bacau, 2015(comunicare), <http://oproteh.ub.ro;>
42. Oana Acatrinei-Insuratelu, Bogdan Cucu, Elena Petronela Bran, Maria Ema Faciu, **Irina Ifrim**, Lacramioara Rusu, *Variation of physical and chemical properties of potentially contaminated soils located in Bacau city, Romania*, The XI-th International Conference Oproteh 2015, 4-6 Iunie, Bacau, 2015(comunicare), <http://oproteh.ub.ro;>

43. Oana-Irina PATRICIU, Irina-Claudia ALEXA, Raluca-Ioana TAMPU, Luminita GROSU, Daniela NICUTA, Iulia LAZAR, **Irina Loredana IFRIM**, Lucian GAVRILA, Adriana Luminita FINARU, *Evaluation de l'activité biologique des composés hétérocycliques sur la croissance et le développement des plantes*, Huitieme Colloque Franco-Roumain de Chimie Appliquee, Montpellier, 15-18.09.2014;
44. Raluca-Ioana TAMPU, Oana-Irina PATRICIU, Irina-Claudia ALEXA, Luminita GROSU, **Irina Loredana IFRIM**, Lucian GAVRILA, Adriana Luminita FINARU, *Extraits de plantes – inhibiteurs « verts » de corrosion pour l'acier inox dans milieu d'acide chlorhydrique*, Huitieme Colloque Franco-Roumain de Chimie Appliquee, Montpellier, 15-18.09.2014;
45. Dumitra RADUCANU, Jean Baptiste HZOUNDA FOKOU, Steve VOUNDI, Ioana STEFANESCU, Viorel Ioan RATI, **Irina IFRIM**, Iuliana LAZAR, *Evaluation de la toxicité des boues d'épuration pre-fermentees*, Huitieme Colloque Franco-Roumain de Chimie Appliquee, Montpellier, 15-18.09.2014;
46. Ciprian SANDU, Marius Popescu, **Irina Loredana IFRIM**, Iulia LAZAR, Gabriel LAZAR, *Multivariate analyses for prediction of total petroleum hydrocarbon*, Huitieme Colloque Franco-Roumain de Chimie Appliquee, Montpellier, 15-18.09.2014;
47. Mioara RACHIERU (SÂNDULACHE), Ema Maria FÂCIU, **Irina Loredana IFRIM**, Dumitra RĂDUCANU, Adriana Luminița FÎNARU, Iulia LAZAR, *Impact de la decharge de phosphogypse (region de Bacau) sur l'Artemisia absinthium*, Huitieme Colloque Franco-Roumain de Chimie Appliquee, Montpellier, 15-18.09.2014;
48. Diana Mirila, Petronel Paval, Stefan Ciobanu, Oana-Irina Patriciu, Irina-Claudia Alexa, Raluca-Ioana Tampu, Luminita Grosu, Daniela Nicuta, **Irina Ifrim**, Lucian Gavrilă, Adriana Finaru, RISK EVALUATION OF ORGANIC COMPOUNDS ADDITION IN *Ocimum basilicum* L. CULTURE MEDIA, 04-07.06.2014 Bacau Second International Conference on Natural and Antropic Risks ICNAR 2014, <http://icnar.ub.ro>
49. Madalina Pirvan, Cristina Patrascu, Raluca-Ioana Tampu, Bogdan Alexandru Chirita, Eugen Herghelegiu, Oana-Irina Patriciu, Irina Alexa, Luminita Grosu, **Irina Ifrim**, Lucian Gavrilă, Adriana Finaru, SPINACIA OLERACEA PROTECTIVE EFFECT AGAINST HYDROCHLORIC ACID MEDIA COROSION ON ALUMINIUM ALLOYS, 04-07.06.2014 Bacau Second International Conference on Natural and Antropic Risks ICNAR 2014, <http://icnar.ub.ro>
50. Raluca-Ioana Tampu, Oana-Irina Patriciu, Nicolae Catalin Tampu, Irina Alexa, Luminita Grosu, **Irina Ifrim**, Lucian Gavrilă, Adriana Finaru, REDUCING CORROSION RISK FOR MILD STEEL BY USING *Raphanus Sativus* AND *Spinacia Oleracea* EXTRACTS AS GREEN CORROSION INHIBITORS, 04-07.06.2014 Bacau Second International Conference on Natural and Antropic Risks ICNAR 2014, <http://icnar.ub.ro>
51. Ciprian Sandu, Marius Popescu, Oana Acatrinei – Însurățelu, Cenușă Cristiana – Ioana, **Irina Ifrim**, HEALTH RISKS INDUCED BY TOTAL PETROLEUM HYDROCARBON EXTRACTION METHODS, 04-07.06.2014 Bacau Second International Conference on Natural and Antropic Risks ICNAR 2014
52. Marius Nadejde, Petronela Bran, Camelia Ureche, Dorel Ureche, Gabriel Lazar, **Irina Ifrim**, BIOMONITORING THE QUALITY OF AQUATIC ECOSYSTEMS USING NONDESTRUCTIVE INVESTIGATION TECHNIQUES, 04-07.06.2014 Bacau Second International Conference on Natural and Antropic Risks ICNAR 2014
53. Mioara Rachieru (Sândulache), Adriana Luminița Finaru, Dumitra Răducanu, **Irina Loredana Ifrim**, Ema Maria Făciu, PHYSICO-CHEMICAL PROPERTIES OF MEDICINAL PLANTS GROWN TO POTENTIALLY HAZARDOUS CONTAMINANT AREA, 04-07.06.2014 Bacau Second International Conference on Natural and Antropic Risks ICNAR 2014
54. Maria-Ema Faciu, Peter M. Atkinson, Marius Stamate, **Irina Ifrim**, Iulia Lazar, Gabriel Lazar, HEAVY METAL CONCENTRATIONS IN AN URBAN AREA PREDICTED BASED ON ROAD TRAFFIC, Second International Conference on Natural and Anthropic Risks ICNAR 2014

55. Stelian Cartacuzencu, Andreea Cocarcea, Sorina Zirnea, Alina Diaconescu, **Irina Ifrim**, Valentin Nedeff & Iuliana Lazar, *Teaching Methods For Non-Destructive Leaf Area Determination*, Malta International Conference of Arts and Sciences, Mediterranean Conference for Academic Disciplines, Valetta, Malta, 2-6 March, 2014, <http://mediterraneanconferencefora2014.sched.org/list/descriptions/#.VfbI25c424o>
56. Maria Ema Faciu, Peter M. Atkinson, **Irina Ifrim**, Iuliana Lazar & Gabriel Lazar, *Assessment Of Mn Concentration Distribution In An Urban Area Using Regression And Kriging Interpolation*, Malta International Conference of Arts and Sciences, Mediterranean Conference for Academic Disciplines, Valetta, Malta, 2-6 March, 2014
57. Andreea RUSEI (COCARCEA), Ema FACIU, **Irina IFRIM**, Iuliana LAZAR, Gabriel LAZAR, EFFECTS OF DIFFERENT PRETREATMENTS ON BIOMASS COMPOSITION, The 10th ELSEDIMIA International Conference, UBB, 18-19 Sep 2014 Cluj Napoca
58. Dumitra RADUCANU, Ioana STEFANESCU, **Irina IFRIM**, Iuliana CARAMAN, Iuliana LAZAR, LIFELONG LEARNING EDUCATION FROM ENVIRONMENTAL TOXICOLOGY AND RISK ASSESSMENT PERSPECTIVE, The 10th ELSEDIMIA International Conference, UBB, 18-19 Sep 2014 Cluj Napoca
59. Nicuță, D., **Ifrim, I.L.**, Lazăr, I., Growth and antioxidant responses in *Triticum Aestivum* L. under the treatment of pesticides on seeds, Ecology and Protection of Ecosystems – the 10th edition, EPE, 7-9 november, 2013, www.epebacau.ro, Bacău, Romania
60. Patriciu Oana-Irina Ifrim Irina-Loredana Tampu Raluca-Ioana Gavrilă Lucian Finaru Adriana-Luminita, ECO-FRIENDLY CORROSION INHIBITORS IN AQUEOUS MEDIUM FOR FOOD INDUSTRY APPLICATION, 6th International Euro-Aliment Symposium -Around Food, 03-05.10.2013
61. Faciu, M.E., Lazar, I., **Ifrim, I.**, Ureche, C., Lazar, G., In-situ analysis of heavy metals concentration in two water courses near Bacau city, Romania, 7 International Conference on Environmental Engineering and Management, *Integration Challenges for Sustainability*, ICEEM07, 18 - 21 september 2013, <http://iceem07.iceem.eu/>, Viena, Austria
62. Lazar I., Mata L., **Ifrim I.**, Mateian C., Lazar G., *Integrated teaching and learning methods in environmental sciences using interactive ceramic whiteboards with integrated sound (ēno) and spark science learning system*, http://www.iated.org/concrete2/paper_detail.php?paper_id=32006, EDULEARN13, the 5th annual International Conference on Education and New Learning Technologies Barcelona (Spain), on the 1st, 2nd and 3rd of July, 2013, **poster**
63. Eve Jeanne CABO, Dumitra RADUCANU, Ema FICIU, Sorina ZIRNEA, Camelia URECHE, **Irina IFRIM**, Gabriel LAZAR, Iulia LAZAR, Aquatic Environment Behavior Influenced By The Presence Of Sewage Sludge, International Conference of Applied Sciences, Chemistry and Chemical Engineering, Seventh Edition, May 15th-18th 2013, Bacău, Romania, <http://cisaconf.ub.ro/15-18 May 2013>
64. Dumitra RADUCANU, Aristide Guillaume SILAPEUX KAMDA, Ioana GHERMAN, Sorina ZIRNEA, **Irina IFRIM**, Elie FOKOU, Daniela NICUTA, Iulia LAZAR, *Effect of acid rain on spinach growth planting in different soil types*, The Xth International Conference CONSTRUCTIVE AND TECHNOLOGICAL DESIGN OPTIMIZATION IN THE MACHINES BUILDING FIELD: Applied Sciences Section, 23-25 May 2013, Bacau, Romania
65. Dumitra RADUCANU, **Irina IFRIM**, Alisa ARUS, Narcis BIRSAN, Valentin NEDEFF, Iulia LAZAR, *Physico-chemical and microbiological characterization of sewage sludge resulted from wastewater treatment plant of Bacau County*, The Xth International Conference CONSTRUCTIVE AND TECHNOLOGICAL DESIGN OPTIMIZATION IN THE MACHINES BUILDING FIELD: Applied Sciences Section, 23-25 May 2013, Bacau, Romania
66. Sorina Zirnea, Cucu Marius Bogdan, **Irina Ifrim**, Gabriel Lazar, Iulia Lazar, *The effect of cypermethrin in soil on rapeseed plantlets at molecular level*, The Xth International Conference CONSTRUCTIVE AND

67. Sorina Zirnea, Dumitra Raducanu, Aristide Guillaume SILAPEUX KAMDA, **Irina Ifrim**, Daniela Nicuta, Marius Stamate, Gabriel Lazar, Iulia Lazar, *Monitoring the phosphogypsum influence on canola and spinach growth*, The Xth International Conference CONSTRUCTIVE AND TECHNOLOGICAL DESIGN OPTIMIZATION IN THE MACHINES BUILDING FIELD: Applied Sciences Section, 23-25 May 2013, Bacau, Romania
68. Andreea Cocarcea, **Irina Ifrim**, Gabriel Lazar, Iulia Lazar, *The analysis of functional groups of lignocellulosic biomass by infrared spectral technique*, The Xth International Conference CONSTRUCTIVE AND TECHNOLOGICAL DESIGN OPTIMIZATION IN THE MACHINES BUILDING FIELD: Applied Sciences Section, 23-25 May 2013, Bacau, Romania
69. Eve Jeanne CABO, Dumitra RADUCANU, Ema FACIU, Sorina ZIRNEA, **Irina IFRIM**, Gabriel LAZAR, Adrien COLY, Iulia LAZAR, *EcoZone system for monitoring water quality parameters*, The Xth International Conference CONSTRUCTIVE AND TECHNOLOGICAL DESIGN OPTIMIZATION IN THE MACHINES BUILDING FIELD: Applied Sciences Section, 23-25 May 2013, Bacau, Romania
70. Eve Jeanne CABO, Dumitra RADUCANU, Ema FICIU, Sorina ZIRNEA, Irina **IFRIM**, Camelia URECHE, Gabriel LAZAR, Adrien COLY, Iulia LAZAR, Surveillance du développement à *Ceratopteris thalictroides* dans les eaux polluées par les boues d'épuration, Le troisième colloque francophone PLUridisciplinaire sur les Matériaux, l'Environnement et l'Electronique (PLUMEE 2013), 22- 25 Mai 2013, Bacau, Roumanie
71. Sorina Zirnea, Cucu Marius Bogdan, Stelian Cartacuzencu, **Irina Ifrim**, Iuliana Lazar, *Monitoring the effect of cypermethrin in soil on rapeseed growth*, Fifth International Conference on Energy Efficiency and Agricultural Engineering, (EE&AE) Ruse, Bulgaria, 17-18 May 2013,
72. Nechita, E., Nicuță, D., **Ifrim, I.L.**, Păcurari, D., Crișan, G.C., *On blended collaborative learning. Case study: a project on raising awareness regarding GMOs*, 5th World Conference on Educational Sciences, 05-08 February 2013, Sapienza University of Rome, Italy, <http://www.wces.info/>,
73. Lazar, I.M., **Ifrim, I.L.**, Nicuta, D., Lazar, G., *Le comportement moléculaire a partir des graines de canola cotylédons exposes a différentes doses d'irradiation solaire étudiées par des méthodes multivariees de données*, Le septième colloque Franco-Roumain de Chimie Appliquée, 27-29 juin 2012, Bacău, Romania, ISSN 2068-6382, p. 101-102
74. Faciu, M.E., Lazăr, I.M., **Ifrim, I.L.**, Lazăr, G., *La nécessité d'une stratégie unitaire concernant la surveillance de la pollution du sol avec des métaux lourds. Etude de cas – la région de la Moldavie*, Le septième colloque Franco-Roumain de Chimie Appliquée, 27-29 juin 2012, Bacău, Romania, ISSN 2068-6382, p. 246-247
75. Lazar, I.M., **Ifrim, I.L.**, Nicuta, D., Lazar, G., *Variations de forme des paramètres morphologiques et physiologiques des plantules le colza sélectionnées (Brassica Napus L.) soumis à un stress environnemental*, Le septième colloque Franco-Roumain de Chimie Appliquée, 27-29 juin 2012, Bacău, Romania, ISSN 2068-6382, p. 254-255
76. Faciu, E., Lazar, I.M., **Ifrim, I.L.**, Nedeff, V., Lazar, G., *Using multivariate statistics and GIS on assessing heavy metal pollution of soil in 22 cities of Moldavia*, First International Conference on MOLDAVIAN RISKS – FROM GLOBAL TO LOCAL SCALE, May 16-19, 2012, Bacau, Romania
77. Lazar, I., Nicuță, D., **Ifrim, I.**, Stamate, M., Lazăr, G., *Risk of photoinhibition on Brassica Napus growth under solar radiation correlate with structural changes of infrared molecular spectrum in lipids*, First International Conference on MOLDAVIAN RISKS – FROM GLOBAL TO LOCAL SCALE, May 16-19, 2012, Bacau, Romania
78. **Ifrim, I.**, Lazăr, I., Stamate, M., Lazăr, G., *Risk exposure on nonionizing radiation associated with variation of lactose and protein concentration in dairy products*, First International Conference on MOLDAVIAN RISKS – FROM GLOBAL TO LOCAL SCALE, May 16-19, 2012, Bacau, Romania

79. Lazar, I.M., Nicuta, D., **Ifrim, I.L.**, Nistor, D., *Shape variation of phenotypic parameters during growth of canola seeds exposed to environmental stress*, International Conference of Applied Sciences, Chemistry and Chemical Engineering, Sixth Edition, April 28th-30th 2012, Bacău, Romania
80. Moroi, A., Vartolomei, N., Aruş, A.V., **Ifrim, I.L.**, Leonte, M., Lazăr, I.M., *Humidity Variation of Flour Exposed to Radiation From UV-VIS Range During Maturing*, The 5th International Symposium Euro Aliment From Food Science to Food Industry Bridging Education and Research with Engineering and Industry, October 6-7, 2011 - Galaţi, România
81. Lazar, G., Ureche, D., **Ifrim, I.L.**, Stamate, M., Ureche, C., Nedeff, V., Nistor, I.D., Finaru, A.L., Lazar, I.M., *Environmental influence on two fish population evidenced by statistical and spectral analysis*, The 6th International Conference on Environmental Engineering and Management – ICEEM06, 1 - 4 September 2011 Balaton Lake, Hungary, Proceedings of the 6th International Conference on Environmental Engineering and Management (indexat ISI), **2011**, ISBN 978-973-7645-85-2, p. 55-56
82. Vartolomei N., Moroi A.M., Aruş V.A., **Ifrim I.L.**, Zaharia D., Leonte M., Lazăr I.M., *The authenticity of wheat grain confirmed by FT-NIR spectroscopy*, International Conference of Applied Sciences, Chemistry and Chemical Engineering, Fifth Edition, April 28th-30th 2011, Bacău, Romania
83. **Ifrim I.L.**, Bârsan C., Aruş V.A., Moroi A.M., Stamate M., Gavrilă L., Lazăr I.M., *The effect of UV-VIS radiation on dairy products*, International Conference of Applied Sciences, Chemistry and Chemical Engineering, Fifth Edition, April 28th-30th 2011, Bacău, Romania
84. Ştefănescu I.A., Sobetkii A., Bârsan C., **Ifrim I.L.**, Stamate M., Caraman I., Lazăr G.O., Lazăr I.M., *Nonpathogenic bacteria manipulated in non-uniform alternating electric field*, International Conference of Applied Sciences, Chemistry and Chemical Engineering, Fifth Edition, April 28th-30th 2011, Bacău, Romania
85. Ureche C., **Ifrim I.L.**, Ureche D., Moroi A.M., Vartolomei N., Nistor D., Lazăr G.O., Lazăr I.M., *Spectral changes in the FTIR spectra for different ages fish species*, International Conference of Applied Sciences, Chemistry and Chemical Engineering, Fifth Edition, April 28th-30th 2011, Bacău, Romania
86. Moroi A.M., Vartolomei N., Aruş V.A., **Ifrim I.L.**, Zaharia D., Leonte M., Lazăr I.M., *The influence of non-ionizing radiation on flour maturing*, International Conference of Applied Sciences, Chemistry and Chemical Engineering, Fifth Edition, April 28th-30th 2011, Bacău, Romania
87. Moroi A.M., Vartolomei N., Aruş V.A., **Ifrim I.L.**, Lazăr I.M., *Variation of physico-chemical properties of flour exposed to UV-VIS radiation during maturing process revealed by FTIR spectroscopy*, The 9th International Conference OPROTEH, May 24-26, 2011, Bacău, Romania
88. Lazăr I.M., Nicuţă D., **Ifrim I.**, Troţuş E., *Spectral changes in the FTIR spectra for different rapeseed samples (Brassica Napus) exposed to non-ionizing radiation*, The 9th International Conference OPROTEH, May 24-26 2011, Bacău, Romania
89. Lazar I., **Ifrim I.**, Sobetkii A., Stamate M., Caraman I., Lazar G., *Étude comparative de la séparation des protéines a l'aide des deux méthodes physico-chimiques: l'électrophorèse et la diélectrophorèse*, Actes du sixième colloque Franco-Romain de Chimie Appliquée, ISSN 2068-6382, 7-10 juillet 2010, Orléans, França, p. 79
90. Lazar I., **Ifrim I.**, Sobetkii A., Stamate M., Caraman I., Lazar G., *La dépendance entre la résolution de séparation des composants des protéines et les caractéristiques de l'environnement de la migration, dans le cas de l'électrophorèse sur gel de polyacrylamide*, Actes du sixième colloque Franco-Romain de Chimie Appliquée, ISSN 2068-6382, 7-10 juillet 2010, Orléans, França, p. 80
91. **Ifrim I.**, Simion A., Finaru A., Gavrilă L., *Modeling of the thermophysical properties of grapes juice*, Chimia 2009 International Conference – „New Trends in Applied Chemistry”, 13-16 mai 2009, Constanţa, Romania, ISBN 978-973-614-500-1, p.174-175

92. Grosu L., Dabija A., **Ifrim I.**, Ciobanu D., *Aliments fonctionnels traditionnels obtenus par la valorisation de lactosérum*, Le cinquième colloque Franco-Roumain de Chimie Appliquée, 25-29 juin 2008, Bacău, Romania, ISBN 978-973-1833-77-4, p. 174
93. **Ifrim I.**, Grosu L., Ciobanu D., *Effets du stockage des déchets ménagers sur les eaux souterraines*, Le quatrième colloque Franco-Roumain de Chimie Appliquée Clermont-Ferrand, France, 28 juin-02 juillet 2006, ISBN 973-8392-17-9, p. 211-212
94. **Ifrim I.**, Nedelcu C., Ciobanu D. - “Contributions regarding the water quality evaluation from Vrancea county, Siret hydrographical basin III. The hydro chemical characterization Siret river” – 6th Conference with International Participation OPROTEH 17-19 November 2005, Bacău, Romania
95. **Ifrim I.**, Nedelcu C., Ciobanu D. - “Contributions regarding the water quality from Siret Hydrographical Basin - 6th Conference with International Participation OPROTEH 17-19 november 2005, Bacău, Romania
96. Nedelcu C., **Ifrim I.**, Ciobanu D. - “Contributions regarding the water quality from Siret hydrographical basin. I. The hydro chemical characterization of the rivers from the Putna basin: Milcov and Râmna rivers” - 6th Conference with International Participation OPROTEH 17-19 November 2005, bacău, Romania
97. Nedelcu C., **Ifrim I.**, Ciobanu D. - “Contributions regarding the water quality evaluation from Vrancea county, Siret hydrographical basin II. The hydro chemical characterization of Putna river” - 6th Conference with International Participation OPROTEH 17-19 november 2005, Bacău, Romania
98. **Ifrim I.**, Ciobanu D., *The Influence of H₂SO₄ Addition on Colour Index and of Chemical Consumption Corning from Sulphate Cellulose Fabrication Technology*, 4th Conference with International Participation OPROTEH 22-24 November 2001, Bacău, Romania
99. **Ifrim, I.**, Ciobanu, D. *Contributions sur les méthodes et les technologies pour la dépollution des solutions résiduelles chargées d'alcali-lignine*, Actes du Colloque Franco-Roumain de Chimie Appliquée Bacău, Roumanie, 12-14 octobre 2000, Bacău, ISBN 973-99703-3-8, p. 121
100. Istrate L., Nistor D., **Ifrim I.**, Paraschivescu O., Heves A., *Valorification des déchets menageres pour l'obtention des fertilisants de type composte*, Actes du Colloque Franco-Roumain de Chimie Appliquée Bacău, Roumanie, 12-14 octobre 2000, ISBN 973-99703-3-8, p. 119
101. Fînar, A., **Ifrim, I.**, Cașcaval, Al., *Sinteza și studiul activității biologice a unor compuși de tipul alchil orto-hidroxi-fenil cetonelor substituite*, Conferința Internațională ALTEXIM II, Sibiu 17-18 noiembrie 2000, Buletinul Științific al Universității „Lucian Blaga” Sibiu 2000, ISBN 973-651-157-X, p. 70-75
102. Ciobanu. D, **Ifrim, I.**, *Cercetari privind depoluarea prin decolorare a soluțiilor reziduale provenite din procedeul sulfat aplicat pentru dezincrustarea lemnului” – în Rezumate a XXV a Sesiune Națională de Chimie*, 6-8 octombrie 1999, Călimănești Căciulata, ISBN 973-8488-74-5, p. 359-361
103. Ciobanu, D., **Tirișcă, I.**, *Cercetări privind reducerea culorii apelor uzate din tehnologia celulozei sulfat*, Cel de-al II-lea Simpozion Internațional “Procese și echipamente cu performanțe ridicate în industria de celuloză și hârtie”, 3-7 iunie 1996, Brăila
104. Nistor D., Ciobanu D., Bucur I., **Tirișcă I.**, *Studii teoretice și practice privitoare la valorificarea soluțiilor bisulfite reziduale, provenite de la fabricarea celulozei prin procedeul acid*, Conferința Națională de Chimie și Tehnologie a Produselor Alimentare, Bacău 23-24 octombrie 1995
105. Nistor D., Ciobanu D., Bucur I., **Tirișcă I.**, *Studii pentru rentabilizarea obținerii spirtului sulfitic din soluții bisulfite reziduale, provenite de la fabricarea celulozei prin procedeul acid*, Conferința Națională de Chimie și Tehnologie a Produselor Alimentare, Bacău 23-24 octombrie 1995

h) Proiecte de cercetare-dezvoltare pe bază de contract/grant

1. Membru în colectivul de cercetare al proiectului: H2020 Water Challenges for a Changing World, Water Works 2015, WaterJPI/0007/2016 (2017-2020), nr. 40/2017 – 396000 lei *Sustainable and safe water management in agriculture: increasing the efficiency of water reuse for crop growth while protecting ecosystems, services and citizens' welfare (REWATER) (Managementul durabil și sigur al apei în agricultură: creșterea eficienței reutilizării apei în irigații cu protejarea ecosistemelor, serviciilor și bunăstării populației)*
2. Membru în colectivul de cercetare al proiectului: PARTENERIATE PN-II-PT-PCCA-2011-3.2-1108 (2012-2016), nr. 225/2012 - 2954300 ron, *Predarea și învățarea științelor și disciplinelor tehnologice prin intermediul rețelei de table interactive ceramice cu sunet integrat (ēno), Networked interactive ceramic whiteboards with integrated sound (ēno) for teaching and learning science and technology*
3. Membru în colectivul de cercetare al contractului internațional în cadrul Programului ECO-NET (2007-2009) (Franța-România-R. Moldova) – 50000 euro, *“Valorisation chimique des agro-ressources. Caracterisation et isolement de molecules bioactives dans des extraits de plantes”* încheiat între Institutul de Chimie Organică și Analitică, Universitatea Orleans și Laboratorul de Chimie Bioorganică și Analiză Structurală, Universitatea din Bacău și Universitatea Tehnică a Moldovei. Contractul de cercetare are ca obiectiv caracterizarea și izolarea structurilor cu acțiune antioxidantă din plante, folosind mijloace moderne ale chimiei analitice, organice și biologiei și ținând cont de cerințele actuale ale protecției mediului și de principiile „chimiei verzi”.
4. Membru în colectivul de cercetare al contractului internațional în cadrul Programului “Brâncuși” 14944RB/2006 (Franța – România) (2007-2008) – 10000 euro, *“Synthèse et analyse de molécules hétérocycliques pour traiter le cancer et les maladies du système nerveux central”* încheiat între Institutul de Chimie Organică și Analitică, Universitatea Orleans și Laboratorul de Chimie Bioorganică și Analiză Structurală, Universitatea din Bacău. Contractul de cercetare are ca obiectiv conceperea și sinteza de molecule cu potențială activitate biologică, folosind mijloace moderne ale chimiei analitice, organice și biologiei și ținând cont de cerințele actuale ale protecției mediului și de principiile „chimiei verzi”.

5. Contract CERES 4-128/2004 (2004-2006)

„Specii bioactive procesate ca inhibitori ai agentilor infectiosi.”, – membru în colectiv

Obiectivele contractului sunt optimizarea sintezei combinațiilor complexe cu potențială activitate biologică și caracterizarea fizico-chimică a compuşilor obținuți.

6. Contract 146/1999 CNFIS – Banca Mondială și Guvernul României (1999-2003)

“Modernizarea procesului de învățământ prin implicarea studenților în elaborarea de noi structuri zeolitice cu proprietăți catalitice aplicate în industria chimică, alimentară și protecției mediului” – membru în colectiv

Grantul a fost încheiat cu realizarea tuturor obiectivelor propuse printre care amenajarea unor laboratoare de cercetare, publicarea unor cursuri și îndrumare de laborator, crearea unei biblioteci proprii a secției, efectuarea de vizite de lucru și schimburi de experiență a unor studenți și cadre didactice de la Universitatea din Bacău, cu universități din țară și străinătate, etc.

7. Contract C.N.C.S.U. N^o 1779/14.04.1999 (1999-2000)

"Valorificarea unor suporturi minerale naturale pentru compusi organici sintetici, cu rol activ in procesele de crestere si dezvoltare a plantelor" - membru în colectiv

Contractul a vizat valorificarea superioară a resurselor minerale naturale (a argilelor) prin elaborarea de tehnologii moderne pentru fertilizarea solurilor agricole.

8. Membru în proiectul POSDRU/86/1.2/S/56711 - "Calitatea și expertiza în elaborarea și implementarea metodologiei de obținere și testare de produse competitive prin formarea profesională în cadrul unor noi programe de master cu impact major pe piața muncii" ("The quality and expertise in developing and implementing methodology to obtain and test competitive products through training in the new master's programs with a major impact on employment")– 375979 Ron (durata: 36 luni, 01.11.2010 - 31.10.2013, prelungit 31.10.2016), Master implicat în proiect – CoSAMIB/CMB
9. Expert - Proiect CNFIS-FDI-2023-F-0069 -200000 lei – *"Cercetarea – din laboratoare către societate. Dezvoltarea capacității de cercetare a Universității "Vasile Alecsandri" din Bacău prin valorificarea apartenenței la ecosistemul CDI din Regiunea NE (UBc-Lab-to-Life) aprilie-decembrie 2023"*
10. Expert - Proiect CNFIS-FDI-2024-F-0492: *Acțiuni integrate pentru creșterea calității procesului de cercetare științifică la Universitatea „Vasile Alecsandri” din Bacău* (UBc4Research) (22.04-16.12.2024)

i) Alte lucrări și contribuții științifice

Referent științific la cărțile:

1. Corelarea între *matematică – fizică – chimie* în predarea și înțelegerea de către elevi a conceptului de electroliză, autor prof. Marcela Trifan, Ed. Docucenter, Bacău, ISBN 978-606-8246-05-5, 2010, 139p.
2. Obținerea zahărului și a ciocolatei, autor prof. Marcela Trifan, Ed. Docucenter, Bacău, ISBN 978-606-8246-34-5, 2011, 56p.
3. Tehnologii și utilaj în industria fermentativă, îndrumar de laborator, autor Elena-Mirela Suceveanu, Ed. Alma Mater, 2013, ISBN 978-606-527-310-8, 216p
4. Tehnologii generale în industria fermentativă, note de curs, autor Elena-Mirela Suceveanu, Ed. Alma Mater, 2015, ISBN 978-606-527-488-4, 200p.
5. English for biochemical and food engineering students, autor Gabriela Andrioai, Ed. Alma Mater, 2016, ISBN 978-606-527-544-7, 186p
6. Chimie anorganică pentru pregătirea concursurilor școlare în gimnaziu - autori: Anca Tabacariu, Mariana Moga, Ediția a II-a, E. PIM, 2019, ISBN 978-606-13-5097-1, 151p;
7. Instruire asistată de calculator în predarea diferitelor teme din programa școlară de chimie - autor: Anca Tabacariu, Ediția a II-a, Ed. PIM, 2019, ISBN 978-606-13-5095-7, 120p;
8. Obținerea unor specii moleculare cu energia potențială a electronilor de valență și reactivitatea chimică mărite în stare stabilă – autor: Valeriu Jumanca, Ed. Alma Mater, 2021, ISBN 978-606-527-682-6, 188p.
9. The procurement of molecular species with the potential energy of electrons of valence and chemical reactivity, both increased in stable form - Obținerea unor specii moleculare cu energia potențială a electronilor de valență și reactivitatea chimică mărite în stare stabilă – autor: Valeriu Jumanca, Ed. Alma Mater, 2022, ISBN 978-606-527-699-4 – ediție bilingvă, 383p.

10. Chimia pe înțelesul tuturor, Experimente.Aplicații, autori: Gabriela Muntianu, Ana Maria Roșu, Editura Pim, 2023, ISBN 978-606-13-7528-8, 256p.

11. Chimie aplicată, autori: Gabriela Muntianu, Ana Maria Roșu, Editura Pim, 2023, ISBN 978-606-13-7735-0, 314p.

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