

PERSONAL INFORMATION



Lenche Velkoska-Markovska

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Sex Female | Date of birth 06. 09. 1974 | Nationality Macedonian

WORK EXPERIENCE

Since 2000 to present, participation in the team working on determination of physical and physico-chemical properties of pesticide formulations, as well as food safety and quality analysis: development and validation of new HPLC methods for determination of food additives, pesticide residues in food and water samples, food chemical migration and food composition.

29th September 2023

Full Professor in Scientific Area of Chemistry

Ss Cyril and Methodius University in Skopje,
Faculty of Agricultural Sciences and Food-Skopje,
Food Institute, Department of Food Quality and Safety
16-ta Makedonska brigada Street, No 3,
1000 Skopje, Republic of North Macedonia

- Lecturer of undergraduate studies in Subjects:
 - Chemistry (all study programs),
 - Analytical Chemistry (study programs: Food Quality and Safety, and Production and processing of agricultural products and food) and
 - Physico-chemical Hazards in Food (study programs: Food Quality and Safety, and Production and processing of agricultural products and food).
 - Chemical Hazards in Food (study programs: Food Quality and Safety, Animal Biotechnology, Plant Protection - Phytomedicine).
 - General and inorganic chemistry (at the Faculty of Pharmacy at Ss. Cyril and Methodius University in Skopje).
- Lecturer of postgraduate studies in Subjects:
 - Physico-chemical Hazards in Food - selected chapters,
 - Food additives,
 - Chromatographic methods for analysis,
 - Methods of scientific research work.

- Lecturer of doctoral studies in Subjects:
 - Physico-chemical Hazards in Food - advanced chapters,
 - Food additives - advanced chapters,
 - Methodology of scientific research work.

**From 16th October 2018
to September 2023**

Associate Professor in Scientific Area of Chemistry

Ss Cyril and Methodius University in Skopje,
Faculty of Agricultural Sciences and Food-Skopje,
Food Institute, Department of Food Quality and Safety
16-ta Makedonska brigada Street, No 3,
1000 Skopje, Republic of North Macedonia

- Lecturer of undergraduate studies in Subjects:
 - Chemistry (all study programs),
 - Analytical Chemistry (study program - Food Quality and Safety and Processing of agricultural products) and
 - Physico-chemical Hazards in Food (study programs - Food Quality and Safety, Processing of agricultural products, Eco agriculture, Viticulture and wine-making).
 - Chemical Hazards in Food (study programs - Food Quality and Safety, Animal Biotechnology, Plant Protection - Phytomedicine).
 - General and inorganic chemistry (at the Faculty of Pharmacy at Ss. Cyril and Methodius University in Skopje).
- Lecturer of postgraduate studies in Subjects:
 - Physico-chemical Hazards in Food - selected chapters,
 - Food additives,
 - Chromatographic methods for analysis.
- Lecturer of doctoral studies in Subjects:
 - Physico-chemical Hazards in Food - advanced chapters,
 - Food additives - advanced chapters,
 - Methodology of scientific research work.
- Laboratory and numerical exercises of undergraduate studies in Subjects:
 - Chemistry (all study programs),
 - Analytical chemistry (the study programs - Food Quality and Safety and Processing of agricultural products),
 - Physico-chemical Hazards in Food (study programs - Food Quality and Safety, Processing of agricultural products, Eco agriculture, Viticulture and wine-making).
 - Chemical Hazards in Food (study programs - Food Quality and Safety, Animal Biotechnology, Plant Protection - Phytomedicine).

**From 31st January 2014
to October 2018**

Assistant Professor in Scientific Area of Chemistry

Ss Cyril and Methodius University in Skopje,
Faculty of Agricultural Sciences and Food-Skopje,
Food Institute, Department of Food Quality and Safety
16-ta Makedonska brigada Street, No 3,
1000 Skopje, Republic of North Macedonia

- Lecturer of undergraduate studies in Subjects:
 - Chemistry (all study programs),
 - Food packaging (study program - Food Quality and Safety)
- Lecturer of postgraduate studies in Subjects:
 - Food additives.
- Laboratory and numerical exercises of undergraduate studies in Subjects:
 - Chemistry (all study programs),
 - Analytical chemistry (the study programs - Food Quality and Safety and Processing of agricultural products),
 - Physico-chemical Hazards in Food (study program - Food Quality and Safety),
 - Food Packaging (study program - Food Quality and Safety).

From 2009 to 2014

Teaching and Research Assistant

Ss Cyril and Methodius University in Skopje,
Faculty of Agricultural Sciences and Food-Skopje,
Food Institute, Department of Food Quality and Safety
16-ta Makedonska brigada Street, No 3,
1000 Skopje, Republic of North Macedonia

- Laboratory and numerical exercises of undergraduate studies in Subjects:
 - Chemistry (all degree programs),
 - Analytical chemistry (the study programs - Food Quality and Safety and Processing of agricultural products).

From 2000 to 2009

Young Assistant

Ss Cyril and Methodius University in Skopje,
Faculty of Agricultural Sciences and Food-Skopje,
Food Institute, Department of Food Quality and Safety
16-ta Makedonska brigada Street, No 3,
1000 Skopje, Republic of North Macedonia

- Laboratory and numerical exercises of undergraduate studies in Subjects:
 - Chemistry (all degree programs),

- Analytical chemistry (the study programs - Food Quality and Safety and Processing of agricultural products).

Business or sector Education and Research

EDUCATION AND TRAINING

From 2009 to 2013

PhD

Ss. Cyril and Methodius University in Skopje, Faculty of Natural Sciences & Mathematics - Skopje, Institute of Chemistry, Republic of North Macedonia

PhD thesis:

“HPLC methods development for quantitative determination of some herbicides and organophosphate insecticides in various matrices”

From 1999 to 2008

MSc (GPA 10.00/10.00)

Ss. Cyril and Methodius University in Skopje, Faculty of Natural Sciences & Mathematics - Skopje, Institute of Chemistry, Republic of North Macedonia

Master thesis:

“HPLC methods development for simultaneous determination of active ingredients phenmedipham, desmedipham and ethofumesate in a pesticide formulation Inter Of”

From 1993 to 1999

BSc (GPA 8.88/10.00)

Ss. Cyril and Methodius University in Skopje, Faculty of Natural Sciences & Mathematics - Skopje, Institute of Chemistry, Republic of North Macedonia

Graduate thesis:

“Development and optimization of simultaneous determination of some triazines by high-performance liquid chromatography”

PROFESSIONAL TRAINING

1. “MKC EN ISO/IEC 17025: 2018 - General requirements for the competence of testing and calibration laboratories”, organized by the Standardization Institute of the Republic of North Macedonia, December 13th, 2023.
2. Online training on food composition data collection and documentation, held by National Agricultural and food centre – Food Research Institute, Slovakia, 2nd – 5th October, 2023.

3. 9th BfR - Summer Academy 2021: Lecture Series, Berlin, 16th – 20th August 2021, online at the German Federal Institute for Risk Assessment (BfR).
4. Training for evaluators according to the standard MKC EN ISO/IEC 17025: 2006, organized by the Accreditation Institute of R. Macedonia, March 23 - 24, 2017.
5. International R & D Course on Postharvest Physiology, Pathology and Handling of Fresh Commodities, Izrael, 7th - 26th February, 2016.
6. Training Course “Principles and Applications of Metrology in Chemistry”, Institute of Public Health of the Republic of Macedonia, 19. 09. 2014, Skopje, R. Macedonia.
7. COST ACTION FA0904, Short Training School “Deepening the knowledge in the field of polymer nanomaterials for food packaging and other potential uses: theory and practice, 03-05. 11. 2011, University “Ss Cyril and Methodius”, Skopje, R. Macedonia
8. Quality and Regulatory Infrastructure Development for Food Safety & Quality in Macedonia, Training Course in Measurement Uncertainty Estimation for Chemists and Microbiologists, 9-11. 12. 2009, Skopje, Macedonia.
9. Regional Training Course on Standardizing Methods for Antioxidants Analysis in Solanaceous Food Crops, 16-27. 11. 2009, Budapest, Hungary.
10. Course “Academic writing in English”, 16-25. 06. 2009, Skopje, R. Macedonia.
11. NATO Advanced Training Course “Food Safety and Security-Rapid detection methods, policy making and emergency response”, 18-22. 05. 2009, Belgrade, Serbia.
12. Quality and Regulatory Infrastructure Development for Food Safety & Quality in Macedonia, Training course on laboratory accreditation according to ISO 17025, 16-20. 03. 2009, Skopje, Macedonia.

PERSONAL SKILLS

Mother tongue(s)

Macedonian

Other language(s)

English
Russian
Serbian
Croatian
Bulgarian

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C1	C1	C2
C1	C2	B2	B2	C1
C2	C2	C2	C2	C2
C2	C2	C2	C2	C2
B1	B1	B1	B1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- Good communication skills acquired through previous work experience with students and colleagues from the country and abroad, participation in teamwork, participation in several national and international projects, as well as participation

Organisational / managerial skills

in numerous national and international Conferences, Congresses, Symposia, etc.

- Excellent organizational skills acquired through previous work experience as a teacher and researcher, manager and participant of several national and international projects, organization and co-organization of various workshops, info and open days, member of the Congress Organizing Committee, Scientific Committee of International Conferences, Symposium Secretariat, etc.
- Head of the Food Institute at the Faculty of Agricultural Sciences and Food – Skopje (2024 – 2027).
- Head of an accredited laboratory for chemical analysis of primary agricultural products and their processed products (L-07) at the Faculty of Agricultural Sciences and Food - Skopje.
- Head of the Council for the second cycle of studies at the Faculty of Agricultural Sciences and Food - Skopje (2021-2024).
- Head of the Teaching-Scientific College of the study program Food Quality and Safety at the Faculty of Agricultural Sciences and Food - Skopje (2021-2024).
- President of the Board for Cooperation and Trust with the Public for the mandate period 2020-2024.
- Head of the Department of Food Quality and Safety at the Faculty of Agricultural Sciences and Food - Skopje, from 2014 to 2017.

Job-related skills

- Excellent knowledge and skills for working in the laboratory, planning and performing experiments, statistical processing of experimental results and their interpretation.
- Knowledge and skills in using different laboratory tools and techniques, as well as classical and instrumental analytical methods, especially UV/Vis spectroscopy and high-performance liquid chromatography (HPLC) for the determination of different chemical components in different matrices.
- Ability to find solutions and solve problems that arise during research.
- Many years of experience in scientific research work, ability and skills for development, validation and accreditation of new HPLC methods for the determination of food additives, pesticide residues in food samples (fruits and vegetables) and water, chemical ingredients in fruits, vegetables and their processing, chemical contaminants that migrate from the packaging, active components in pesticide formulations, fertilizers, etc.

Computer skills

- Excellent computer skills acquired using various Microsoft Office applications (Word, Excel, Power Point), computer programs for image processing especially for the needs of chemistry (ChemSketch, ChemWin, CorelDraw...), access and use of information and services through the internet.

Driving licence

- Category B

**ADDITIONAL
INFORMATION
PUBLISHED
ARTICLES (Original
Scientific Articles)**

1. Jankulovska, M S., Sokolovska, V., **Velkoska-Markovska, L.**, Bogevska, Z., Karakasova, Lj., Manasievska, S., Miskovska-Milevska, E., Babanovska-Milenkovska, F., Markoski, M., Extraction and spectrophotometric quantification of total polyphenolic content in onion, *Agriculture and Forestry*, 69 (2): 217-226, (2023). doi:10.17707/AgricultForest.69.2.17
2. Ljubica Karakashova, Frosina Babanovska-Milenkovska, Jelena Mladenova, **Lenche Velkoska-Markovska**, Namik Durmishi, Vesna Bogdanovska, Quality properties of solar dried goji berries (*Lycium barbarum*), *International Journal of Food Technology and Nutrition*, 6(11/12), 58-65, (2023).
3. Sunchica Andonova, **Lenche Velkoska-Markovska**, RP-HPLC method for determination of caffeine in beverages, *Proceedings of the 47th conference for students of agriculture and veterinary medicine with international participation*, 115-121, (2023).
4. **Lenche Velkoska-Markovska**, Biljana Petanovska-Ilievska, Aleksandar Markovski, Application of RP-HPLC method for the analysis of some pesticide residues in water samples, *Acta Scientific Agriculture*, 7(1), 63-69 (2023).
5. **Lenche Velkoska-Markovska**, Biljana Petanovska-Ilievska, Determination of malathion and its residues by normal-phase high-performance liquid chromatography method, *Acta Chromatographica*, 34 (3), 315–322 (2022). IF (JCR), 2021: 2.011). DOI: 10.1556/1326.2021.00935
6. Ljubica Karakashova, Vesna Bogdanovska, Martin Stojanov, Frosina Babanovska Milenkovska, **Lenche Velkoska-Markovska**, Viktorija Stamatovska, Namik Durmishi, Total anthocyanins in fresh fruit and compote of "Oblacinska" sour cherry (*Prunus Cerasus* L.), *Journal of Agricultural, Food and Environmental Sciences*, 76(3), 25-30 (2022).
7. Aleksandra Silovska Nikolova, Zlatko Pejkovski, **Lenche Velkoska-Markovska**, Daniela Belichovska, Dimitar Nakov, Katerina Belichovska, The effect of Swiss chard powder and starter cultures on colour development in smoked pork loin, *Journal of Agricultural, Food and Environmental Sciences*, 76(2), 1-11 (2022).
8. Simona Stojcevska, Mirjana S. Jankulovska, **Lenche Velkoska-Markovska**, Zvezda Bogevska, Spectrophotometric determination of total polyphenolic and flavonoid content in tomato, *Journal of Agricultural, Food and Environmental Sciences*, 76(1), 1-8 (2022).

9. L. Velkoska Markovska, B. Petanovska Ilievska, Aleksandar Markovski, Application of normal-phase high performance liquid chromatography to the analysis of some pesticide residues in apple juice, XXVI International Eco-Conference, XII Safe Food, Novi Sad, Serbia, 21–23th September, Proceedings, 115-123, 2022.
10. Aleksandar Markovski, **L. Velkoska Markovska**, Greek strawberry tree (*Arbutus andrachne* L.) genotypes propagation, XXVI International Eco-Conference, XII Safe Food, Novi Sad, Serbia, 21–23th September, Proceedings, 79-87, 2022.
11. Aleksandra Silovska Nikolova, **Lenche Velkoska-Markovska**, Zlatko Pejkovski, Market research - how interested are consumers in meat products with reduced E-number on their declaration, Journal of Agricultural, Food and Environmental Sciences, 75 (1), 1-8, (2021).
12. Ljubica Karakashova, Frosina Babanovska-Milenkovska, Jelena Mladenova, **Lence Velkoska-Markovska**, Viktorija Stamatovska, Namik Durmishi, Comparison of quality properties of fresh and solar dried goji berries (*Lycium Barbarum*), XXVI International Eco-Conference, XII Safe Food, Novi Sad, Serbia, 21–23th September, Proceedings, 207-215, 2022.
13. **Lenche Velkoska-Markovska**, Jovana Davitkova, Mirjana S. Jankulovska, HPLC method for determination of active ingredients in pesticide formulation switch 62,5 WG, Journal of Agricultural, Food and Environmental Sciences, 75 (2), 11-18 (2021).
14. **Lenche Velkoska-Markovska**, Biljana Petanovska-Ilievska, Determination of malathion in pesticide formulation by high-performance liquid chromatography, Agriculture & Forestry, 66 (4), 171-181 (2020). DOI: 10.17707/AgricultForest.66.4.14
15. **L. Velkoska Markovska**, B. Petanovska Ilievska, HPLC method for determination of some pesticide residues in water samples, XXIV International Eco-Conference, XI Safe Food, Novi Sad, Serbia, 23–25th September, Proceedings, 123-131, 2020.
16. **Lenche Velkoska-Markovska**, Biljana Petanovska-Ilievska, Rapid Resolution Liquid Chromatography Method for Determination of Malathion in Pesticide Formulation, Acta Chromatographica, 32 (4), 256 - 259 (2020). (IF (JCR), 2020: 1.639). DOI: 10.1556/1326.2019.00713
17. **Lenche Velkoska-Markovska**, Mirjana S. Jankulovska, Biljana Petanovska-Ilievska, Kristijan Hristovski, Development and validation of RRLC–UV method for determination of chlorogenic acid in green coffee, Acta Chromatographica, 32 (1), 34 – 38 (2020). (IF (JCR), 2020: 1.639). DOI: 10.1556/1326.2019.00547
18. Anita Najdenkoska, Zorica Arsova-Sarafinovska, **Lenche Velkoska-Markovska**, Mirjana S. Jankulovska, Ivana Janeska Stamenkovska,

- Silvana Manasievska Simikj, JRU METROFOOD-MK as a part of the european research infrastructure for promoting metrology in food and nutrition, Preliminary communication Journal of Agricultural, Food and Environmental Sciences, 74 (2), 1-4 (2020). <http://hdl.handle.net/20.500.12188/21409>
19. M. S. Jankulovska, **L. Velkoska-Markovska**, B. Petanovska-Ilievska, U. Ilievski, Application of high performance liquid chromatography for determination of metalaxyl, acetamiprid and azoxystrobin in tomato samples, Journal of Analytical Chemistry, 74 (4), 339-344, (2019). (IF (JCR) = 0.971). DOI: 10.1134/S1061934819040075
 20. Biljana Petanovska-Ilievska, Mirjana S. Jankulovska, Lenche **Velkoska-Markovska**, Jasmina Spasovska, Determination of Bisphenol A in beverages by RP-HPLC, Agriculture & Forestry, 65(1), 243 -255 (2019) (Journal I.F. (JIF) 1,254).
 21. **Lenche Velkoska-Markovska**, Biljana Petanovska-Ilievska, Aleksandar Markovski, Determination of some pesticide residues in apple juice by high-performance liquid chromatography, Journal of Agricultural, Food and Environmental Sciences, 73 (3), 30-37 (2019). DOI: 10.55302/jafes19733030vm
 22. T. Nestorovski, **L. Velkoska – Markovska**, S. Srbinovska, E. Miskoska – Milevska, B. Petanovska – Ilievska, Z.T. Popovski, Different approaches in analyzing chymosin purity, Journal of Agricultural, Food and Environmental Sciences, 73 (3), 24-29 (2019). DOI: 10.55302/jafes19733024n
 23. **L. Velkoska-Markovska**, B. Petanovska-Ilievska, M. S. Jankulovska, U. Ilievski, Development and Validation of High-Performance Liquid Chromatography Method for Determination of Some Pesticide Residues in Table Grape, Acta Chromatographica, 30 (4), 250-254 (2018). (IF (JCR), 2018: 0.667). DOI: 10.1556/1326.2017.00330; <http://hdl.handle.net/20.500.12188/21401>
 24. **Lenche Velkoska-Markovska**, Biljana Petanovska-Ilievska, Development and validation of RP-HPLC method for determination of some pesticide residues in water samples, Contributions, Sec. Nat. Math. Biotech. Sci., MASA, 40 (2), 169-180 (2019). DOI: 10.20903/csnmbs.masa.2019.40.2.141
 25. **Lenche Velkoska-Markovska**, Biljana Petanovska-Ilievska, Aleksandar Markovski, Application of high performance liquid chromatography to the analysis of pesticide residues in apple juice, Contemporary Agriculture, 67 (1), 93 - 102, 2018. DOI: 10.2478/contagri-2018-0014
 26. **L. Velkoska-Markovska**, B. Petanovska-Ilievska, Determination of Pesticide Residues in Water by Liquid Chromatography, XXII International Eco-conference, X SAFE FOOD, Novi Sad, Serbia,

2018, Book of proceedings, p. 75-82.

27. **Velkoska-Markovska Lenche**, Petanovska-Ilievska Biljana, Angel Mihajlovski, Rapid resolution liquid chromatography method for determination of chlorogenic acid in echinacea extracts, Journal of Agricultural, Food and Environmental Sciences, 72 (1), 79-85 (2018).
28. Bojana Mitreska, **Lenche Velkoska-Markovska**, Mirjana S. Jankulovska, Biljana Petanovska-Ilievska, Determination of acesulfame-K in apple juice, International students' conference, Book of papers, (2017).
29. Ivana Stojanoska, **Lenche Velkoska-Markovska**, Mirjana S. Jankulovska, Biljana Petanovska-Ilievska, Development of RRLC method for simultaneous determination of aspartame and acesulfame-K in apple juice, International students' conference, Book of papers, (2017).
30. Tamara Lukesheviki, **Lenche Velkoska-Markovska**, Mirjana S. Jankulovska, Biljana Petanovska-Ilievska, Ivana Talevska, Ilirjana Sela, Development of HPLC method for determination of aspartame in beverages, International students' conference, Book of papers, (2017).
31. **Velkoska-Markovska L.**, Petanovska-Ilievska B., Markovski A., Application of rapid resolution liquid chromatography to the analysis of some pesticide residues in apple juice, Agriculture & Forestry, 63(3), 207-219 (2017), (Journal I.F. (JIF) 1,254).
32. Petanovska-Ilievska B., **Velkoska-Markovska L.**, Jankulovska S. M., Development of reversed – phase high performance liquid chromatography method for simultaneous determination of sodium benzoate and potassium sorbate in beverages, Acta Chromatographica, 29(3), 345-358 (2017), (JCR IF (2016) = 0,755). <http://hdl.handle.net/20.500.12188/21405>
33. **Velkoska-Markovska L.**, Petanovska-Ilievska B., Markovski A., Development and Validation of RP-HPLC Method for Determination of Pesticide Residues in Apple Juice, *Book of proceedings of the 3rd IMEKOFOODS Metrology Promoting Harmonization & Standardization in Food & Nutrition*, 286-289 (2017), 1–4 October 2017, Thessaloniki, Greece.
34. Markovski, **L. Velkoska-Markovska**. 2016. Content of vitamin C in the fruits of jujube (*Ziziphus jujuba* Mill.) varieties and their progenies. Agriculture & Forestry, Vol. 62 (2), 217-225.
35. A. Markovski, **L. Velkoska-Markovska**. 2015. Investigation of the morphometric characteristics of jujube types (*Zizyphus jujuba* Mill.) fruits in Republic of Macedonia, Genetika, Vol. 47, No.1, 33-43. (JCR I. F. = 0,308).
36. **Velkoska-Markovska L.**, Petanovska-Ilievska B. 2016. Quantitative determination of 2,4-D in pesticides Monosan herbi and DMA-6. Journal of Agricultural, Food and Environmental Sciences, Vol. 67, 62-67.

37. **Velkoska-Markovska L.**, Petanovska-Ilievskaa B., Stojanovska I., Jankulovska S. M. 2016. SPE-RRLC determination of some pesticide residues in apple juice, *Journal of Agricultural, Food and Environmental Sciences*, Vol. 67, 11-17.
38. Jankulovska M. S., **Velkoska-Markovska L.**, Petanovska-Ilievskaa B., Trpkovska S. 2016. High-performance liquid chromatography method for determination of preservatives in beverages, *Journal of Agricultural, Food and Environmental Sciences*, Vol. 67, 18-25.
39. B. Petanovska-Ilievskaa, **L. Velkoska-Markovska**, I. Stojanovska and M. S. Jankulovska. 2016. Development of high speed RRLC method for quantitative determination of some pesticide residues in apple juice, *Journal of Agricultural, Food and Environmental Sciences*, Vol. 67, 26-32.
40. F. Babanovska-Milenkovska, Lj. Karakasova, B. Petanovska-Ilievskaa, S. Manasievska-Simic, E. Miskoska-Milevska, **L. Velkoska-Markovska** and M. S. Jankulovska. 2016. Change in the quality properties of two different pepper varieties in fresh and dried condition, *Agriculture & Food, Journal of International Scientific Publications*, Vol. 4, 250-259.
41. T. Eftimova - Tashevskaa, B. Petanovska - Ilievskaa, E. Dimitrieska - Stojkovik, **L. Velkoska – Markovska**. 2016. Common nonconformities during procedure for accreditation of the food testing laboratories in the R. Macedonia, *Journal of Agricultural, Food and Environmental Sciences*, Vol. 67, 1-10.
42. A. Markovski, **L. Velkoska-Markovska**. Dynamics of jujube (*Zizyphus jujuba* Mill.) fruit growth, *Scientific Conference "Challenges in modern agricultural production"* Book of proceedings, Sec. 1, pp. 63-70, 2015, Skopje, Republic of Macedonia.
43. D. Milosavljeva, **L. Velkoska-Markovska**, B. Petanovska-Ilievskaa, M. S. Jankulovska. 2015. Karakteristiki na ambalaznite filmovi i obvivki koisto moze da se jadat za pakuvanje na hrana, *Journal of Agricultural, Food and Environmental Sciences*, Vol. 65, 19-27.
44. T. Jakimoski, B. Petanovska-Ilievskaa, M. S. Jankulovska, **L. Velkoska-Markovska**. 2015. RRLC metod za opredeluvanje na hlorogena kiselina vo proizvodot Cirkon, *Journal of Agricultural, Food and Environmental Sciences*, Vol. 65, 1-10.
45. **L. Velkoska-Markovska**, B. Petanovska-Ilievskaa, Optimization and development of a SPE-HPLC-DAD method for the determination of atrazine, malathion, fenitrothion, and parathion pesticide residues in apple juice, *Maced. J. Chem. Chem. Eng.*, **32(2)**, 299–308 (2013). (JCR I. F. (2013) = 0,821). <http://hdl.handle.net/20.500.12188/21406>

46. Markovski, D. Petkovski, **L. Velkoska-Markovska**, Grafting of chestnut (*Castanea sativa* Mill.) on various oak species (*Quercus* sp.) as a rootstocks, *Zemljiste i biljka*, **62(3)**, 157-170 (2013). (JBR I. F. ₍₂₀₁₃₎ = 0,011).
47. **L. Velkoska-Markovska**, B. Petanovska-Ilievska, RP-HPLC method development for quantitative determination of 2,4-D in pesticide formulations, *Plant protection*, Skopje, **26/27** (XXIV), 145-151 (2013).
48. **L. Velkoska-Markovska**, B. Petanovska-Ilievska, L. Vodeb, RP-HPLC-DAD method for simultaneous determination of desmedipham, phenmedipham and ethofumesate in a pesticide formulation, *Maced. J. Chem. Chem. Eng.*, **31(1)** 39-46 (2012). (JCR I. F. ₍₂₀₁₂₎ = 1,079). <http://hdl.handle.net/20.500.12188/21407>
49. A. Markovski, **L. Velkoska-Markovska**, The leaf characteristics of jujube (*Ziziphus jujuba* Mill.) types, *Zemljiste i biljka*, **61(3)**, 165-178 (2012). (JBR I. F. ₍₂₀₁₂₎ = 0,04).
50. A. Markovski, **L. Velkoska-Markovska**, B. Petanovska-Ilievska, L. Vodeb. Chemical contents on jujube (*Zizyphus jujuba* Mill.) varieties and forms, *Anniversary Yearbook of the Institute of Agriculture*, Skopje, **(26/27)**, 223-230 (2008/2009).
51. B. Petanovska-Ilievska, L. Vodeb, **L. Velkoska-Markovska**, Quantitative determination of the active ingredients chlorpyrifos and cypermethrin in the pesticide formulation Pirel-D using HPLC, *Plant protection*, Skopje, **(XX)**, 142-146 (2009).
52. B. Petanovska-Ilievska, L. Vodeb, **L. Velkoska-Markovska**, Quantitative determination of the active ingredient pirimicarb in the pesticide Pirimor 25 WG with high performance liquid chromatography, *Plant protection*, Skopje, **(XX)**, 147-151 (2009).
53. **L. Velkoska-Markovska**, B. Petanovska-Ilievska, L. Vodeb, HPLC method development for simultaneous determination of phenmedipham, desmedipham and ethofumesate in the pesticide Inter of using Lichrosorb CN column, *Plant protection*, Skopje, **(XX)**, 137-141 (2009).
54. **L. Velkoska-Markovska**, B. Petanovska-Ilievska, L. Vodeb, Simultaneous determination of phenmedipham, desmedipham, and ethofumesate in a pesticide formulation by normal-phase high-performance liquid chromatography, *Acta Chromatogr.*, **20(1)**, 109–118 (2008). (JCR IF₍₂₀₀₈₎ = 0.75). <http://hdl.handle.net/20.500.12188/21408>
55. B. Petanovska-Ilievska, L. Vodeb, **L. Velkoska-Markovska**, Quantitative determination of β -cyfluthrin in the pesticide Responsar SC 025 with reversed-phase liquid chromatography, *Yearbook for plant protection*, Skopje, 233-243 (2004).
56. B. Petanovska-Ilievska, L. Vodeb, **L. Velkoska-Markovska**, HPLC method development for quantitative determination of the active ingredient

pirimicarb in the pesticide Pirimor 25 WG, *Yearbook for plant protection*, Skopje, 187-199 (2003).

57. A. Markovski, **L. Velkoska**, Rooting of soft cuttings from jujube (*Zizyphus jujuba* L.) varieties by influence of phytohormone IBA, *Yearbook of the Institute of Agriculture*, Skopje, **Vol. XX**, 145-150 (2000).

**STUDENT'S
TEXTBOOKS AND
TEACHING AIDS
(BOOKS AND
INTERNAL SCRIPTS)**

1. **L. Velkoska-Markovska**, Physico-chemical Hazards in Food, Internal script for students of undergraduate studies of the Faculty of Agricultural Sciences and Food - Skopje (2022).
2. **L. Velkoska-Markovska**, Food additives, Internal script for students of postgraduate studies of the Faculty of Agricultural Sciences and Food - Skopje (2022).
3. **L. Velkoska-Markovska**, M. S. Jankulovska, Organic Chemistry, student's textbook, Skopje (2021).
4. M. S. Jankulovska, **L. Velkoska-Markovska**, General and Inorganic Chemistry, student's textbook, Skopje (2021).
5. **L. Velkoska-Markovska**, M. S. Jankulovska, Organic Chemistry, Internal script for students of the Faculty of Agricultural Sciences and Food - Skopje (2020).
6. **L. Velkoska-Markovska**, M. S. Jankulovska, Organic Chemistry Questions and Tasks, Internal script for students of the Faculty of Agricultural Sciences and Food - Skopje (2020).
7. M. S. Jankulovska, **L. Velkoska-Markovska**, General and Inorganic Chemistry, Internal script for students of the Faculty of Agricultural Sciences and Food - Skopje (2020).
8. M. S. Jankulovska, **L. Velkoska-Markovska**, General and Inorganic Chemistry Questions and Tasks, Internal script for students of the Faculty of Agricultural Sciences and Food - Skopje (2020).
9. B. Petanovska-Ilievska, **L. Velkoska-Markovska**, Mirjana S. Jankulovska, Chemistry, Diary of laboratory exercises in Chemistry for students of the Faculty of Agricultural Sciences and Food - Skopje (2014).
10. B. Petanovska-Ilievska, **L. Velkoska-Markovska**, Mirjana S. Jankulovska, Chemical and physical hazards in food, Diary of laboratory exercises in Chemical and physical hazards in food for students of the Faculty of Agricultural Sciences and Food - Skopje (2014).
11. Mirjana S. Jankulovska **L. Velkoska-Markovska**, Food packaging, Internal script for students of the Faculty of Agricultural Sciences and Food - Skopje (2014).

12. B. Petanovska-Ilievska, L. Vodeb, **L. Velkoska-Markovska**, Organic Chemistry, Diary of laboratory exercises in Organic chemistry for students of the Faculty of Agricultural Sciences and Food - Skopje (2011).
13. B. Petanovska-Ilievska, L. Vodeb, **L. Velkoska-Markovska**, Inorganic Chemistry, Diary of laboratory exercises in Inorganic chemistry for students of the Faculty of Agricultural Sciences and Food - Skopje (2010).
14. B. Petanovska-Ilievska, **L. Velkoska-Markovska**, L. Vodeb, Analytical Chemistry, Diary of laboratory exercises in Analytical chemistry for students of the Faculty of Agricultural Sciences and Food - Skopje (2004).
15. B. Petanovska-Ilievska, L. Vodeb, **L. Velkoska-Markovska**, Chemistry, Diary of laboratory exercises in Chemistry for students of the Faculty of Agricultural Sciences and Food - Skopje (2003).

PROFESSIONAL PAPERS

1. **Velkoska-Markovska L.**, Petanovska-Ilievska B., Application of reversed-phase high-performance liquid chromatography for the determination of active components in the preparation Inter of, Journal of Agricultural, Food and Environmental Sciences, Vol. 62, 13-21 (2014).
2. B. Petanovska - Ilievska, G. Janev, **L. Velkoska-Markovska**, M. S. Jankulovska, Methods for the determination of aspartame in food, Journal of agricultural, food and environmental sciences, vol. 62, 38-44 (2014).
3. B. Petanovska – Ilievska, V. Arsov, **L. Velkoska-Markovska**, M. S. Jankulovska, Methods for the determination of benzoates and sorbates in food, Journal of agricultural, food and environmental sciences, vol. 62, 1-12 (2014).
4. D. Dimovska, M. S. Jankulovska, **L. Velkoska – Markovska**, B. Petanovska – Ilievska, Impact of packaging on the shelf life of food products, Journal of agricultural, food and environmental sciences, vol. 62, 29-37 (2014).
5. T. Siljanovska, M. S. Jankulovska, **L. Velkoska – Markovska**, B. Petanovska – Ilievska, Impact of packaging material on the quality and safety of food products, Journal of agricultural, food and environmental sciences, vol. 62, 22-28 (2014).
6. V. Sokolovska, **L. Velkoska-Markovska**, B. Petanovska-Ilievska, M. S. Jankulovska, Possibilities and application of polyethylene terephthalate (PET) as packaging for food and beverage packaging, Journal of agricultural, food and environmental sciences, vol. 65, 11-18 (2015).
7. Taseska, **L. Velkoska-Markovska**, Z. Bogevska, M. S. Jankulovska, Packaging of food products in a modified gas atmosphere, Journal of agricultural, food and environmental sciences, vol. 65, 19-27 (2015).

PARTICIPATION ON SYMPOSIUMS, CONSULTATIONS, CONFERENCES AND CONGRESSES

1. Ljubica Karakashova, Frosina Babanovska-Milenkovska, Lenche Velkoska-Markovska, Namik Durmishi, Awareness of usage the artificial sweeteners in food by different population in North Macedonia, 4th International Conference of Food Technology and Nutrition, 15-17 May, University of Tetova, North Macedonia, 2024.
2. Sunchica Andonova, **Lenche Velkoska-Markovska**, RP-HPLC method for determination of caffeine in beverages, 47th conference for students of agriculture and veterinary medicine with international participation, University of Novi Sad, Faculty of Agriculture, 17th November, 2023.
3. **Lenche Velkoska-Markovska**, M. S. Jankulovska, S. Andonova, Lj. Karakashova, F. Babanovska-Milenkovska, RP-HPLC Method for Simultaneous Determination of Some Food Additives in Beverages, 26th Congress of Chemists and Technologist of Macedonia with international participation, 20-23 September, Ohrid, Macedonia, 2023.
4. **Lenche Velkoska-Markovska**, Biljana Petanovska-Ilievska, RP-HPLC Method for the Determination of Malathion in Pesticide Formulation, 26th Congress of Chemists and Technologist of Macedonia with international participation, 20-23 September, Ohrid, Macedonia, 2023.
5. Ljubica Karakashova, Frosina Babanovska-Milenkovska, Jelena Mladenova, **Lenche Velkoska-Markovska**, Namik Durmishi, Vesna Bogdanovska, Quality properties of solar dried goji berries (*Lycium barbarum*), 3rd International Conference of Food Technology and Nutrition, 17-19 May, University of Tetova, North Macedonia, 2023.
6. Mirjana S. Jankulovska, Viktorija Sokolovska, **Lenche Velkoska-Markovska**, Evaluation of antioxidant capacity of onion extracts using UV-Vis spectroscopy, XIV Counseling for Chemists, Technologists and Ecologists of the Republic of Srpska, Banja Luka, Bosnia and Herzegovina, 21st and 22nd October (2022).
7. **Lenche Velkoska-Makovska**, Simona Stojcevska, Mirjana S. Jankulovska, HPLC determination of sodium benzoate, potassium sorbate and caffeine in soft drinks, 4th International Symposium for Agriculture and Food – ISAF, Ohrid, North Macedonia, (2022).
8. **Velkoska-Markovska Lenche**, Jankulovska S. Mirjana, Petanovska-Ilievska Biljana, Najdenkoska Anita, Arsova-Srafinovska Zorica, METROFOOD-MK and its contribution to development of RP-HPLC method for determination of B vitamins in rice, 4th International Symposium for Agriculture and Food – ISAF, Ohrid, North Macedonia, (2022).
9. Mirjana S. Jankulovska, Teodora Josimovska, **Lenche Velkoska-Makovska**, Simultaneous determination of acesulfame – K, sodium saccharin and aspartame in beverages by RP-HPLC, 4th International

Symposium for Agriculture and Food – ISAF, Ohrid, North Macedonia, 2022.

10. Mirjana S. Jankulovska, **Lenche Velkoska-Makovska**, Biljana Petanovska-Ilievska, Anita Najdenkovska, Zoriza Arsova-Saradinovska, Spectrophotometric determination of total phenolic content in rice, 4th International Symposium for Agriculture and Food – ISAF, Ohrid, North Macedonia, (2022).
11. Silovska - Nikolova Aleksandra, Pejkovski Zlatko, **Velkoska-Markovska Lenche**, Belichovska Daniela, Belichovska Katerina, The effect of swiss chard powder and starter cultures on color development in smoked pork loin, 4th International Symposium for Agriculture and Food – ISAF, Ohrid, North Macedonia, (2022).
12. Karakashova Ljubica, Markova Sibela, Babanovska-Milenkovska Frosina, **Velkoska-Markovska Lenche**, Stamatovska Viktorija, Durmishi Namik, Bogdanovska Vesna, Nutritional components in fresh and frozen juice of two varieties of pomegranate, 4th International Symposium for Agriculture and Food – ISAF, Ohrid, North Macedonia, (2022).
13. Karakashova Ljubica, Bogdanovska Vesna, Stojanov Martin, Babanovska Milenkovska Frosina, **Velkoska-Markovska Lenche**, Stamatovska Viktorija, Durmishi Namik, Total anthocyanins in fresh fruit and compote of “Oblacinska” sour cherry (*Prunus Cerasus* L.), 4th International Symposium for Agriculture and Food – ISAF, Ohrid, North Macedonia, (2022).
14. **L. Velkoska Markovska**, B. Petanovska Ilievska, Aleksandar Markovski, Application of normal-phase high performance liquid chromatography to the analysis of some pesticide residues in apple juice, XXVI International Eco-Conference, XII Safe Food, Novi Sad, Serbia, 21–23th September, 2022.
15. Aleksandar Markovski, **L. Velkoska-Markovska**, Greek strawberry tree (*Arbutus andrachne* L.) genotypes propagation, XXVI International Eco-Conference, XII Safe Food, Novi Sad, Serbia, 21–23th September, 2022.
16. Ljubica Karakashova, Frosina Babanovska-Milenkovska, Jelena Mladenova, Lence Velkoska-Markovska, Viktorija Stamatovska, Namik Durmishi, Comparison of quality properties of fresh and solar dried goji berries (*Lycium Barbarum*), XXVI International Eco-Conference, XII Safe Food, Novi Sad, Serbia, 21–23th September, 2022.
17. Mirjana S. Jankulovska, Viktorija Sokolovska, **Lenche Velkoska-Makovska, et al.**, Determination of Total Polyphenols and Flavonoids in Different Populations of Onions, 3rd World Conference on Sustainable Life Sciences E-Conference, WOCOLS science for life, E-conference, 19-20 October, 2021.
18. **L. Velkoska Markovska**, B. Petanovska Ilievska, HPLC method for determination of some pesticide residues in water samples, XXIV international Eco-Conference, XI Safe Food, Novi Sad, Serbia, 23–25th September, 2020.

19. Najdenkoska A., Arsova Sarafinovska Z., **Velkoska-Markovska L.**, Jankulovska S. M., Joint Research Unit – METROFOOD-MK and its Contribution to Food Safety and Quality, Book of abstracts, pp. 133-134, 5th International Conference on Metrology in Food and Nutrition, 16-18 September 2020, Czech University of Life Sciences Prague, Czech Republic.
20. Anita Najdenkoska, Zorica Arsova-Sarafinovska, Svetlana Toshevska, **Lenche Velkoska-Markovska**, Mirjana S. Jankulovska, Biljana Petanovska-Ilievska, Ivana Janeska Stamenkovska, Silvana Manasievska-Simikj, JRU METROFOOD-MK as a part of METROFOOD-RI - Infrastructure for promoting metrology in food and nutrition, NUTRICON Food Quality and Safety, Health and Nutrition Congress, Book of abstracts, 2 September, 2020, Ohrid, Republic of North Macedonia.
21. Biljana Petanovska, Mirjana S. Jankulovska, **Lenche Velkoska-Markovska** and Jasmina Spasovska, Determination of Bisphenol A in beverages by RP-HPLC, International GEA (Geo Eco-Eco Agro) conference, 1-3 November, 2018, Podgorica, Montenegro.
22. Biljana Petanovska, **Lenche Velkoska-Markovska**, Irena Stojanovska and Mirjana S. Jankulovska, Determination of some pesticide residues in apple juice by RRLC, International GEA (Geo Eco-Eco Agro) conference, 1-3 November, 2018, Podgorica, Montenegro.
23. **Lenche Velkoska-Markovska**, Biljana Petanovska-Ilievska, Determination of pesticide residues in water samples, IX International Scientific Agriculture Symposium, "AGROSYM 2018", 04-07 October, Jahorina, 2018.
24. **L. Velkoska-Markovska**, B. Petanovska-Ilievska, Determination of Pesticide Residues in Water by Liquid Chromatography, Book of proceedings, p. 75-82, 22th International Eco-conference, 26th-28th September, Novi Sad, Serbia, 2018.
25. **Lenche Velkoska-Markovska**, Biljana Petanovska-Ilievska, HPLC method development for determination of active ingredient in pesticide formulations monosan herbi and DMA-6, 25th Congress of Chemists and Technologist of Macedonia with international participation, 19-22 September, Ohrid, Macedonia, 2018.
26. **Lenche Velkoska-Markovska**, Biljana Petanovska-Ilievska, HPLC method development for determination of some pesticide residues in water samples, 25th Congress of Chemists and Technologist of Macedonia with international participation, 19-22 September, Ohrid, Macedonia, 2018.
27. **Lenche Velkoska-Markovska**, Biljana Petanovska-Ilievska, Mirjana S. Jankulovska, Ugrin Ilievski, Application of the RRLC-UV-DAD method for determination of captan, folpet and metalaxyl residues in table grapes, VIII International Scientific Agriculture Symposium, "AGROSYM 2017", Book of abstracts, 530, 05-08 October 2017, Jahorina, Bosnia and Herzegovina.
28. Markovski A., **L. Velkoska-Markovska**, Possibility of grafting propagation of honeyberry (*Lonicera caerulea* L.), VIII International Scientific Agriculture

- Symposium "AGROSYM 2017", Book of Abstracts 168, 05-08 October 2017, Jahorina, Bosnia and Herzegovina.
29. **Velkoska-Markovska Lenche**, Petanovska-Ilievska Biljana, Mihajlovski Angel, Rapid resolution liquid chromatography method for determination of chlorogenic acid in echinacea extracts, 3rd International symposium for agriculture and food (ISAF), Book of abstracts 160, 18-20 October 2017, Ohrid, Republic of Macedonia.
 30. **Velkoska-Markovska Lenche**, Petanovska-Ilievska Biljana, Markovski Aleksandar, Determination of some pesticide residues in apple juice by high-performance liquid chromatography, 3rd International symposium for agriculture and food (ISAF), Book of abstracts 159, 18-20 October 2017, Ohrid, Republic of Macedonia.
 31. **Velkoska-Markovska L.**, Petanovska-Ilievska B., Markovski A., Development and Validation of RP-HPLC Method for Determination of Pesticide Residues in Apple Juice, 3rd IMEKOFOODS Metrology Promoting Harmonization & Standardization in Food & Nutrition, *Book of proceedings*, 286-289, 1-4 October 2017, Thessaloniki, Greece.
 32. Markovski A., **L. Velkoska-Markovska**, Petanovska-Ilievska B, Using computer vision softwares in morphological analyses of European Chestnut (*Castanea sativa* Mill.) genotypes, 3rd IMEKOFOODS Metrology Promoting Harmonization & Standardization in Food & Nutrition, Book of Abstracts, 291, 1-4 October 2017, Thessaloniki, Greece.
 33. **L. Velkoska-Markovska**, M. S. Jankulovska, B. Petanovska-Ilievska, K. Hristovski, RRLC-UV Chromatographic method used for determination of chlorogenic acid in green coffee, 17th International Symposium and summer school on bioanalysis, Book of abstracts, pp. 64, 2 - 8 July 2017, Ohrid, Republic of Macedonia.
 34. **L. Velkoska-Markovska**, B. Petanovska-Ilievska, A. Markovski, Application of high performance liquid chromatography to the analysis of pesticide in apple juice, International Conference "Organic Agriculture for Agrobiodiversity Preservation" 1 - 3 June 2017, Faculty of Agriculture, University of Novi Sad, Serbia.
 35. **Lenche Velkoska-Markovska**, Biljana Petanovska-Ilievska, Rapid resolution liquid chromatography method development and validation for determination of some pesticide residues in apple juice, XXIV Congress of Chemists and Technologists of Macedonia with international participation, Book of abstracts 55, 11-14 September, 2016. Ohrid, Republic of Macedonia.
 36. **Lenche Velkoska-Markovska**, Biljana Petanovska-Ilievska, Development and validation of rapid resolution liquid chromatography method for determination of 2,4-D in pesticide formulations, XXIV Congress of Chemists and Technologists of Macedonia with international participation, Book of abstracts 56, 11-14 September 2016. Ohrid, Republic of Macedonia.
 37. F. Babanovska-Milenkovska, Lj. Karakasova, B. Petanovska-Ilievska,

- S. Manasievska-Simic, E. Miskoska-Milevska, **L. Velkoska-Markovska** and M. S. Jankulovska, Change in the quality properties of two different pepper varieties in fresh and dried condition, 5th International Conference, 20–24 June 2016, Elenite Holiday Village, Bulgaria.
38. **Lenche Velkoska - Markovska**, Biljana Petanovska-Ilievska, RP-HPLC method development for determination of pesticide residues in apple juice, Workshop on approaches for risk assessment of emerging contaminants with round table „How to use EU funds“ Book of abstracts, pp. 17, 16 - 17th November, 2015, University of Novi Sad, Faculty of Technology Novi Sad, Novi Sad, Serbia.
 39. A. Markovski, **L. Velkoska-Markovska**, Dynamics of Jujube (*Zizyphus jujuba* Mill.) fruit growth, Scientific Conference “Challenges in modern agricultural production“ Book of proceedings, Sec. 1, pp. 63-70, 2015, Skopje, Republic of Macedonia.
 40. Mirjana S. Jankulovska, **Lenche Velkoska-Markovska**, Ugrin Ilievski, Biljana Petanovska-Ilievska, Simultaneous determination of azoxystrobin, acetamiprid and metalaxyl pesticide residues in tomato by solid-phase extraction and rapid resolution liquid chromatography, EFSA's 2nd Scientific Conference, Shaping the future of food safety together, 14-16 October 2015, Milan, Italy.
 41. Markovski Aleksandar, **Velkoska-Markovska Lenche**, Investigation of morphological characteristics of European Chestnut (*Castanea sativa* Mill.) genotypes in R Macedonia, 3rd International symposium for agriculture and food (ISAF), Book of abstracts 210, 18-20 October 2017, Ohrid, Republic of Macedonia.
 42. Ilievski Ugrin, Petanovska-Ilievska Biljana, **Velkoska-Markovska Lenche**, Jankulovska S. Mirjana, Simultaneous determination of some pesticide residues in apple samples using HPLC DAD, 3rd International symposium for agriculture and food (ISAF), Book of abstracts 166, 18-20 October 2017, Ohrid, Republic of Macedonia.
 43. T. Nestorovski, L. Velkoska – Markovska, E. Miskoska – Milevska, Z. T. Popovski, Different approaches in analyzing of chymosine purity, 3rd International symposium for agriculture and food (ISAF), Book of abstracts 163, 18-20 October 2017, Ohrid, Republic of Macedonia.
 44. **Velkoska-Markovska L.**, Petanovska-Ilievska B., Stojanovska I., Jankulovska S. M. SPE-RRLC determination of some pesticide residues in apple juice, 2nd International Symposium for Agriculture and Food – ISAF, Book of abstracts 152, 07-09. October 2015. Ohrid, Republic of Macedonia.
 45. Jankulovska M. S., **Velkoska-Markovska L.**, Petanovska-Ilievska B., Trpkovska S. High-performance liquid chromatography method for determination of preservatives in beverages, 2nd International Symposium for Agriculture and Food – ISAF, Book of abstracts 132, 07-09. October 2015.

Ohrid, Republic of Macedonia.

46. B. Petanovska-Ilievska, **L. Velkoska-Markovska**, I. Stojanovska and M. S. Jankulovska, Development of high speed RRLC method for quantitative determination of some pesticide residues in apple juice, 2nd International Symposium for Agriculture and Food – ISAF, Book of abstracts 145, 07-09. October 2015. Ohrid, Republic of Macedonia.
47. **Velkoska-Markovska L.**, Petanovska-Ilievska B, Quantitative determination of 2,4-D in pesticides Monosan herbi and DMA-6, 2nd International Symposium for Agriculture and Food – ISAF, Book of abstracts 114, 07-09. October 2015. Ohrid, Republic of Macedonia.
48. T. Eftimova - Tashevska, B. Petanovska - Ilievska, E. Dimitrieska - Stojkovik, **L. Velkoska – Markovska**, Common nonconformities during procedure for accreditation of the food testing laboratories in the R. Macedonia, 2nd International Symposium for Agriculture and Food – ISAF, Book of abstracts 125, 07-09. October 2015. Ohrid, Republic of Macedonia.
49. **L. Velkoska-Markovska**, B. Petanovska-Ilievska, Optimization of RP-HPLC method for quantitative determination of 2,4-D in pesticide formulations, The XXXVIIth Traditional Plant Protection Meeting of the Republic of Macedonia, 20-21. 12. 2012, Ohrid, Macedonia.
50. B. Petanovska-Ilievska, **L. Velkoska-Markovska**, M. S. Jankulovska, Development of RP-HPLC method for simultaneous determination of benzoates and sorbates in beverages, International symposium for agriculture and food XXXVII faculty-economy meeting, IV Macedonian symposium for viticulture and wine production, VII symposium for vegetable and flower production, Book of abstracts, pp. 183, 12-14. 12. 2012, Skopje, Republic of Macedonia.
51. B. Petanovska-Ilievska, **L. Velkoska-Markovska**, L. Vodeb, Quantitative determination of the active substances in the pesticide formulation Inter Of using high-performance liquid chromatography, The XXXVth Traditional Plant Protection Meeting of the Republic of Macedonia, 23-26 November, 2010, Ohrid, Macedonia.
52. B. Petanovska-Ilievska, L. Vodeb, **L. Velkoska-Markovska**, Determination of the content of the active substances chlorpyrifos and cypermethrin in the preparation Pirel-D by high-performance liquid chromatography, XXXIII Traditional Plant Protection Meeting of the Republic of Macedonia, 15-18.12. 2008, Ohrid, Macedonia.
53. B. Petanovska-Ilievska, L. Vodeb, **L. Velkoska-Markovska**, Quantitative determination of pyrimycarb in the pesticide formulation Pirimor 25 WG by high-performance liquid chromatography, XXXIII Traditional Plant Protection Meeting of the Republic of Macedonia, 15-18.12. 2008, Ohrid, Macedonia.
54. **L. Velkoska-Markovska**, B. Petanovska-Ilievska, L. Vodeb, Development of a HPLC method for the simultaneous determination of fenmedipham, desmedipham and ethofumesate in the preparation Inter of on the Lichrosorb

CN column, XXXIII Traditional Plant Protection Meeting of the Republic of Macedonia, 15-18.12. 2008, Ohrid, Macedonia.

55. B. Petanovska-Ilievska, L. Vodeb, **L. Velkoska-Markovska**, Determination of β -cyfluthrin in pesticide formulation Responsar SC 025 with reversed-phase liquid chromatography, The XXIX th Meeting for Plant Protection, 7-10. 12. 2004, Ohrid, Republic of Macedonia.
56. B. Petanovska-Ilievska, L. Vodeb, **L. Velkoska-Markovska**, HPLC method development for quantitative determination of active ingredient pirimicarb in pesticide formulation Pirimor 25 WG, The XXVIIIth Meeting for Plant Protection, 11-13. 11. 2003, Ohrid, Republic of Macedonia.
57. V. Trajkovska, S. Petrovska-Jovanovic, **L. Velkoska**, Development and optimization for simultaneous determination of triazines using solid-phase extraction and high-performance liquid chromatography, 37th IUPAC Congress, Book of abstracts, pp. 753, APP-2-135, Berlin, Germany, 14-19 August, 1999.

PRESENTATIONS

1. Lenche Velkoska-Markovska, Laboratories from the Faculty of Agricultural Sciences and Food - Skopje, METROFOOD-PP Open day for researchers, academia, industry, consumers, 11.4.2022, hybrid event, Faculty of Agricultural Sciences and Food - Skopje and online through the platform on Microsoft Teams, (oral presentation).
2. Lenche Velkoska-Markovska, Laboratories from the Faculty of Agricultural Sciences and Food, included in METROFOOD-RI, METROFOOD-PP Open day – Industry, 27.12.2021. online, (oral presentation).
3. Lenche Velkoska-Markovska, METROFOOD-PP – Building an infrastructure for the promotion and advancement of metrology in food and nutrition, METROFOOD-PP: Online info day, 16.6.2021. online, (oral presentation).
4. Presentations at various domestic or international conferences, congresses, symposiums and other events (see conferences).

PARTICIPATION IN RESEARCH PROJECT

1. Development and validation of an analytical method for the simultaneous determination of preservatives, sweeteners and caffeine in soft drinks, funded by Ministry of education and science of the R. of North Macedonia, 2021-2023, (Project Manager).
2. From waste to organic value, a national project financed by the Fund for Innovation and Technology Development, R. of North Macedonia, 2023 (Participant).
3. METROFOOD-RI Preparatory Phase Project - METROFOOD-PP, HORIZON 2020, EU, 2019 - 2022 (Principal Investigator).
4. Determination of total polyphenols content and analysis of antioxidant activity of onion extracts, funded by Ss Cyril and Methodius University in Skopje, 2021-

2022 (Participant).

5. xKIC Circular Economy Consumer Engagement Labs in Western Balkans 2021, EU, EIT FOOD, (Participant).
6. PRO-METROFOOD, HORIZON 2020, EU, 2017 (participant).
7. Change in the content of carotenoids in peppers (*Capsicum Annuum*) industrial (*Kurtovka Kapija*) and spices (*Horgos*) during drying, funded by Ss. Cyril and Methodius University in Skopje, Republic of Macedonia, 2015 (Participant).
8. Characterization and integrated utilization of advanced wheat mutant lines for food and feed, IAEA – Viena, 2012 – 2015 (Participant).
9. Improvement and Establishment of Biotechnology in Higher Education, Tempus IV, ETF-JP-00295-2008, 2009 - 2011 (Participant).
10. RER5013 Evaluation of Natural and Mutant Resources for increased phytonutrient Levels in Vegetable Crops and Potatoes, IAEA, 2009 - 2011 (Participant).
11. Quality and Regulatory Infrastructure Development for Food Safety & Quality in Macedonia, funded by Sida and implemented by Consortium consisting of SWEDAC and the National Food Administration, 2009 - 2011 (Participant).
12. FP7 project - REGPOT-2008 „SWOT - CHEMISTRY - FOOD“, 2009 - 2010 (Participant).
13. Food Safety and Security - Rapid detection methods, NATO Science for Peace 2009 (Participant).
14. “HPLC methods development for quantitative determination of dazomet i pesticide formulation Basamid granulat”, financed by Ministry of Science and Education of Republic of Macedonia, 2003 - 2005 (Participant).

SEMINARS AND WEBINARS

1. “Measurement Uncertainty”, METROFOOD-EPI Webinar, 10 June, 2024.
2. “Challenges in Food Packaging Industry: Environmental impact of packaging waste and novel materials towards sustainability”, METROFOOD-EPI Webinar, 10 June, 2024.
3. “Chromatography seminar control labs”, Merck, 16 March 2018, Skopje.
4. “It is official, Sigma-Aldrich is part of Merck“, 26 April, 2017, Skopje.
5. Spectrophotometry Seminar, Varus, Faculty of Technology and Metallurgy, June 1, 2016, Skopje.
6. METTLER TOLEDO: The Perfection of Analytics, 11. 03. 2014, Skopje, R. Macedonia.
7. Waters ACQUITY UPLC Family- 8 years of evolution and expansion of UPLC - technology, Waters the science of what’s possible, 2.11.2012 Skopje, R. Macedonia.

8. Seminar Merck Milipore, 09. 10. 2012, Skopje, R. Macedonia.

HONOURS AND AWARDS

1. Acknowledgment for participation in the 51-59th state competition of young researchers from R. S. Macedonia, as a member of an evaluation commission in the field of applied inorganic chemistry, applied organic chemistry, environmental chemistry and analytical chemistry, given by the National Technical Committee of Macedonia (in the period from 2015 to 2023).
2. Acknowledgment for participation in the 54-59th state competition of young technicians and naturalists from R. S. Macedonia, as a member of the evaluation commission in the field of applied chemistry, given by the National Technical Department of Macedonia (from 2017-2022).
3. Acknowledgment for a special contribution to the development of the technical culture of Macedonia given by the National Technical Institute of Macedonia (2016).

MEMBERSHIPS

1. Active member of the Society of Chemists and Technologists of Macedonia, since 2016.
2. Member of the Editorial Board of the International Journal of Food Technology and Nutrition.
3. Member of the International Scientific Committee of the 4th International Symposium on Agriculture and Food, October 12-14, 2022, Ohrid, Faculty of Agricultural Sciences and Food - Skopje, Ss. Cyril and Methodius University in Skopje, Republic of North Macedonia.
4. Member of the Expert Commission for the confirmation of professional work in the field of approval of plant protection products, at the Ministry of Agriculture, Forestry and Water Management of R. North Macedonia, 2020.
5. Member of the Scientific Panel for Additives and Flavorings of the National Platform of Experts of R. of North Macedonia, 2020.
6. Member of the Competition Committee for the implementation of the competition for the enrollment of new students for the first cycle of studies at the Faculty of Agricultural Sciences and Food - Skopje, Ss. Cyril and Methodius University in Skopje, from the academic year 2016/2017 to 2022/23.
7. Member of the Secretariat of the International Symposium on Agriculture and Food of the Republic of Macedonia, 2017, Faculty of Agricultural Sciences and Food - Skopje, Ss. Cyril and Methodius University in Skopje.
8. Member of the Commission for International Cooperation of the Faculty of Agricultural Sciences and Food - Skopje, Ss. Cyril and Methodius University in Skopje, in two mandate periods: (2017-2021 and 2021-2024).

9. Member of the Commission for the library work at the Faculty of Agricultural Sciences and Food - Skopje, Ss. Cyril and Methodius University in Skopje, in two mandate periods: 2014-2017 and 2017-2021.
10. Member of the Evaluation Committee of State competitions of young researchers of the Republic of S. Macedonia.
11. Member of the Evaluation Committee of State Competitions of young technicians and naturalists of the Republic of S. Macedonia.
12. Member of the Scientific Board of the "Second International conference on Modern Research in Agricultural Science and Environment", Istanbul, March 14th, 2016.
13. Member of the Scientific Board of the International Conference "International Conference on Modern research in Agricultural science and Environmental", Kuala Lumpur -Malaysia, Dec 15th 2015.
14. Member of the working group for the preparation of the Monitoring-program for production, processing, storage, distribution, use, conformity of plant protection products, as well as their residues in products in primary agricultural production, Ministry of Agriculture, Forestry and Water Management, R . Macedonia, 2012.
15. Member of the Committee for evaluation and defense of bachelor's and master's theses.
16. Member of the Secretariat of the International Symposium on Agriculture and Food of the Republic of Macedonia, December 12-14, 2012, Faculty of Agricultural Sciences and Food - Skopje, Ss. Cyril and Methodius University in Skopje.
17. Member of the Organizing Committee of the Third Congress for Pure and Applied Chemistry of Macedonian Students, May 1998, Institute of Chemistry, Faculty of Science and Mathematics, Ss. Cyril and Methodius University in Skopje.

ADDITIONAL ACTIVITIES:

1. Mentor of diploma theses.
2. Reviewer of scientific papers in international journals (International Journal of Environmental Analytical Chemistry, International Journal of Food Technology and Nutrition, Chemical Papers, Macedonian Journal of Chemistry and Chemical Engineering, Journal of Agricultural, Food and Environmental Sciences, Macedonian Veterinary Review, etc.).
3. Reviewer of textbooks and university teaching aids.
4. Expert activities (Preparation of reports for expert opinion and expert reading, especially in the field of plant protection products).

5. Secretary of the Teaching-Scientific College of the study program Food Quality and Safety at the Faculty of Agricultural Sciences and Food - Skopje (2017-2021).