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1. Balciunaitiene, A.; Puzeryte, V.; **Radenkovs, V.;** Krasnova, I.; Memvanga, P.B.; Viskelis, P.; Streimikyte, P.; Viskelis, J. Sustainable–Green Synthesis of Silver Nanoparticles Using Aqueous *Hyssopus Officinalis* and *Calendula Officinalis* Extracts and Their Antioxidant and Antibacterial Activities. ***Molecules*** **2022**, *27*, doi:10.3390/molecules27227700.
2. Kocetkovs, V.; **Radenkovs, V.;** Juhnevica-Radenkova, K.; Jakovlevs, D.; Muizniece-Brasava, S. The Impact of Eggshell Thickness on the Qualitative Characteristics of Stored Eggs Produced by Three Breeds of Laying Hens of the Cage and Cage-Free Housed Systems. ***Applied Sciences*** **2022**, *12*, doi:10.3390/app122211539.
3. Kocetkovs, V.; **Radenkovs, V.;** Juhnevica-Radenkova, K.; Muizniece-Brasava, S. Variation in the Fatty Acid and Amino Acid Profiles of Pasteurized Liquid Whole Hen Egg Products Stored in Four Types of Packaging. ***Animals*** **2022**, *12*, doi:10.3390/ani12212990.
4. Dimins, F.; Cinkmanis, I.; **Radenkovs, V.;** Augspole, I.; Valdovska, A. Analysis of 18 Free Amino Acids in Honeybee and Bumblebee Honey from Eastern and Northern Europe and Central Asia Using HPLC-ESI-TQ-MS/MS Approach Bypassing Derivatization Step. *Foods* **2022**, *11*, doi:10.3390/foods11182744.
5. **Radenkovs, V.;** Juhnevica-Radenkova, K.; Jakovlevs, D.; Zikmanis, P.; Galina, D.; Valdovska, A. The Release of Non-Extractable Ferulic Acid from Cereal By-Products by Enzyme-Assisted Hydrolysis for Possible Utilization in Green Synthesis of Silver Nanoparticles. ***Nanomaterials*** **2022**, *12*, doi:10.3390/nano12173053.
6. **Radenkovs, V.;** Juhnevica-Radenkova, K.; Kviesis, J.; Valdovska, A. An Environmentally Friendly Approach for the Release of Essential Fatty Acids from Cereal By-Products Using Cellulose-Degrading Enzymes. ***Biology (Basel)*** **2022**, *11*, doi:10.3390/biology11050721.
7. Gāliņa, D.; **Radenkovs, V.;** Kviesis, J.; Valdovska, A. Effect of Essential Oils Supplemented with Caprylic Acid and Sodium Chloride against Faecal ESBL-Producing *Escherichia Coli* Isolated from Pigs. ***Antibiotics*** **2022**, *11*, doi:10.3390/antibiotics11040461.
8. Upska, K.; Klavins, L.; **Radenkovs, V.;** Nikolajeva, V.; Faven, L.; Isosaari, E.; Lauberts, M.; Busa, L.; Viksna, A.; Klavins, M. Extraction Possibilities of Lipid Fraction and Authentication Assessment of Chaga (*Inonotus Obliquus*). *Biomass*

Convers. ***Biorefinery*** **2022**, doi:10.1007/s13399-021-02210-5.

9. Juhnevica-Radenkova, K.; **Radenkovs, V.;** Krasnova, I. The Impact of 1-MCP Treatment and Controlled Atmosphere Storage on the Postharvest Performance of Four (*Chaenomeles Japonica* (Thunb.) Lindl. Ex Spach) Fruit Cultivars. ***Journal of Food Processing and Preservation*** **2022**, *46*, doi:10.1111/jfpp.16193.
10. **Radenkovs, V.;** Juhnevica-Radenkova, K.; Kviesis, J.; Lazdina, D.; Valdovska, A.; Vallejo, F.; Lacis, G. Lignocellulose-Degrading Enzymes: A Biotechnology Platform for Ferulic Acid Production from Agro-Industrial Side Streams. ***Foods*** **2021**, *10*, doi:10.3390/foods10123056.
11. Zikmanis, P.; Juhņeviča-Radenkova, K.; **Radenkovs, V.;** Segliņa, D.; Krasnova, I.; Kolesovs, S.; Orlovskis, Z.; Šilaks, A.; Semjonovs, P. Microbial Polymers in Edible Films and Coatings of Garden Berry and Grape: Current and Prospective Use. ***Food and Bioprocess Technology*** **2021**, *14*, 1432–1445, doi:10.1007/s11947-021-02666-3.
12. Juhnevica-Radenkova, K.; Kviesis, J.; Moreno, D.A.; Seglina, D.; Vallejo, F.; Valdovska, A.; **Radenkovs, V.** Highly-Efficient Release of Ferulic Acid from Agro-Industrial by-Products via Enzymatic Hydrolysis with Cellulose-Degrading Enzymes: Part I–the Superiority of Hydrolytic Enzymes versus Conventional Hydrolysis. ***Foods*** **2021**, *10*, doi:10.3390/foods10040782.
13. **Radenkovs, V.;** Püssa, T.; Juhnevica-Radenkova, K.; Kviesis, J.; Salar, F.J.; Moreno, D.A.; Drudze, I. Wild Apple (*Malus* spp.) by-Products as a Source of Phenolic Compounds and Vitamin C for Food Applications. ***Food Bioscience*** **2020**, *38*, doi:10.1016/j.fbio.2020.100744.
14. Juhnevica-Radenkova, K.; Moreno, D.A.; Ikase, L.; Drudze, I.; **Radenkovs, V.** Naturally Occurring Melatonin: Sources and Possible Ways of Its Biosynthesis. ***Comprehensive Reviews in Food Science and Food Safety*** **2020**, *19*, 4008–4030, doi:10.1111/1541-4337.12639.
15. Burri, S.C.M.; Ekholm, A.; Bleive, U.; Püssa, T.; Jensen, M.; Hellström, J.; Mäkinen, S.; Korpinen, R.; Mattila, P.H.; **Radenkovs, V.;** et al. Lipid Oxidation Inhibition Capacity of Plant Extracts and Powders in a Processed Meat Model System. ***Meat Science*** **2020**, *162*, doi:10.1016/j.meatsci.2019.108033.
16. Juhnevica-Radenkova, K.; **Radenkovs, V.;** Kundzins, K.; Seglina, D. Effect of Ozone Treatment on the Microstructure, Chemical Composition and Sensory Quality of Apple Fruits. ***Food Science and Technology International*** **2019**, *25*, 252–267, doi:10.1177/1082013218815285.
17. **Radenkovs, V.;** Kviesis, J.; Juhnevica-Radenkova, K.; Valdovska, A.; Püssa, T.; Klavins, M.; Drudze, I. Valorization of Wild Apple (*Malus* spp.) by-Products as a Source of Essential Fatty Acids, Tocopherols and Phytosterols with Antimicrobial

Activity. ***Plants*** **2018**, *7*, doi:10.3390/plants7040090.

18. **Radenkovs, V.;** Püssa, T.; Juhnevica-Radenkova, K.; Anton, D.; Seglina, D. Phytochemical Characterization and Antimicrobial Evaluation of Young Leaf/Shoot and Press Cake Extracts from *Hippophae Rhamnoides* L. ***Food Bioscience*** **2018**, *24*, 56–66, doi:10.1016/j.fbio.2018.05.010.
19. **Radenkovs, V.;** Juhnevica-Radenkova, K. Comparison of Three Storage Techniques for Post-Harvest Quality Preservation of Six Commercially Available Cultivars of Apple. ***International Journal of Fruit Science*** **2018**, *18*, 268–286, doi:10.1080/15538362.2017.1422451.
20. **Radenkovs, V.;** Juhnevica-Radenkova, K.; Górnaś, P.; Seglina, D. Non-Waste Technology through the Enzymatic Hydrolysis of Agro-Industrial by-Products. ***Trends Food Science and Technology*** **2018**, *77*, 64–76, doi:10.1016/j.tifs.2018.05.013.
21. **Radenkovs, V.;** Juhnevica-Radenkova, K. Effect of Storage Technology on the Chemical Composition of Apples of the Cultivar 'Auksis' | Laikymo Technologijų Įtaka Veislės 'Auksis' Obuolių Cheminei Sudėčiai. ***Zemdirbyste*** **2017**, *104*, 359–368, doi:10.13080/z-a.2017.104.046.
22. **Radenkovs, V.;** Feldmane, D. Profile of Lipophilic Antioxidants in the By-Products Recovered from Six Cultivars of Sour Cherry (*Prunus Cerasus* L.). ***Natural Product Research*** **2017**, *31*, 2549–2553, doi:10.1080/14786419.2017.1315718.
23. Juhņeviča-Radenkova, K.; **Radenkovs, V.** Assessment of Shelf-Life Ability of Apples Cv. Auksis' after Long-Term Storage under Different Conditions. ***Journal of Horticultural Research*** **2016**, *24*, 37–47, doi:10.1515/johr-2016-0019.
24. Reinholds, I.; Pugajeva, I.; **Radenkovs, V.;** Rjabova, J.; Bartkevics, V. Development and Validation of New Ultra-High-Performance Liquid Chromatography-Hybrid Quadrupole-Orbitrap Mass Spectrometry Method for Determination of Melatonin in Fruits. ***Journal of Chromatographic Science*** **2016**, *54*, 977–984, doi:10.1093/chromsci/bmw030.
25. Juhņeviča-Radenkova, K.; **Radenkovs, V.** Influence of 1-Methylcyclopropene and ULO Conditions on Sensory Characteristics of Apple Fruit Grown in Latvia. ***Journal of Horticultural Research*** **2016**, *24*, 37–46, doi:10.1515/johr-2016-0005.
26. **Radenkovs, V.;** Kaufmane, E.; Rubauskis, E.; Segliņa, D. Preliminary Results on the Effect of 1-Methylcyclopropene on Quality of Plums Grown in Latvia. In ***Proceedings of the Latvian Academy of Sciences. Section B. Natural, Exact, and Applied Sciences***; **2016**; *70*, 21–28, doi:10.1515/prolas-2016-0004.
27. Juhnevica-Radenkova, K.; **Radenkovs, V.;** Seglina, D. Microbiological Changes and Severity of Decay in Apples Stored for a Long-Term under Different Storage

Conditions | Mikrobiologiniai Pokyčiai Ir Obuolių Puvinio Intensyvumas Ilgą Laiką Skirtingomis Sąlygomis Laikytuose Obuoliuose. ***Zemdirbyste*** **2016**, *103*, 391–396, doi:10.13080/z-a.2016.103.050.

28. Juhnevica-Radenkova, K.; **Radenkovs, V.;** Seglina, D. Influence of 1-MCP Treatment and Storage Conditions on the Development of Microorganisms on the Surface of Apples Grown in Latvia | Apdorojimo 1-MCP Ir Laikymo Sąlygų Įtaka Mikroorganizmų Vystymuisi Ant Latvijoje Užaugintų Obuolių Paviršiaus. ***Zemdirbyste*** **2016**, *103*, 215–220, doi:10.13080/z-a.2016.103.028.
29. Górnaś, P.; Juhņeviča-Radenkova, K.; **Radenkovs, V.;** Mišina, I.; Pugajeva, I.; Soliven, A.; Segliņa, D. The Impact of Different Baking Conditions on the Stability of the Extractable Polyphenols in Muffins Enriched by Strawberry, Sour Cherry, Raspberry or Black Currant Pomace. ***LWT*** **2016**, *65*, 946–953, doi:10.1016/j.lwt.2015.09.029.
30. Górnaś, P.; **Radenkovs, V.;** Pugajeva, I.; Soliven, A.; Needs, P.W.; Kroon, P.A. Varied Composition of Tocochromanols in Different Types of Bran: Rye, Wheat, Oat, Spelt, Buckwheat, Corn, and Rice. ***International Journal of Food Properties*** **2015**, *19*, 1757–1764, doi:10.1080/10942912.2015.1107843.
31. Górnaś, P.; Mišina, I.; Grāvīte, I.; Lācis, G.; **Radenkovs, V.;** Olšteine, A.; Segliņa, D.; Kaufmane, E.; Rubauskis, E. Composition of Tocochromanols in the Kernels Recovered from Plum Pits: The Impact of the Varieties and Species on the Potential Utility Value for Industrial Application. ***European Food Research and Technology*** **2015**, *241*, 513–520, doi:10.1007/s00217-015-2480-4.
32. **Radenkovs, V.;** Klava, D.; Juhnevica-Radenkova, K. Effect of Enzymatic Hydrolysis on Bran Microflora. In ***Proceedings of the Research for Rural Development***; **2014**; Vol. 1, pp. 148–154.
33. **Radenkovs, V.;** Klava, D. Physical - Chemical Characterization of Industrial Wheat Bran from Latvia. In ***Proceedings of the Research for Rural Development***; **2012**; Vol. 1, pp. 155–159.
34. Kunkulberga, D. & **Radenkovs, V.** Quality of fermented wheat and rye bran. In ***Proceedings of 6th International Congress FLOUR-BREAD 2011 - 8th Croatian Congress of Cereal Technologists***; **2011**; 417–424.