

L I S T
of the scientific papers
GAVRILAȘ Simona

A. Thesis

Studies on the application of enzymatic treatments to improve the quality of fruit juice. *Phenols-content and composition.* "Politehnica" University of Bucharest, **2014**.

B. Books and chapters published

2023

B1. Simona Gavrilăș, Oana Brînzan, Chapter 1 „Managementul resurselor naturale, sustenabilitatea în antreprenoriat și inovarea ecologică”/”Natural Resource Management and Sustainability in Green Entrepreneurship and Green Innovation”, pp. 7-18, in: Eco-antreprenoriat. Concepte și exemple de bune practice/Eco-entrepreneurship. Principles and examples of good practice, "Aurel Vlaicu" University Publisher, Arad, **2023**, ISBN 978-973-752-911-4.

B2. Oana Brînzan, **Simona Gavrilăș**, Chapter 3 „Eco-Antreprenoriatul, o călătorie a conștientizării spre protecția mediului”/”Green entrepreneurship-a journey of environmental awareness”, pp. 33-44, in: Eco-antreprenoriat. Concepte și exemple de bune practice/Eco-entrepreneurship. Principles and examples of good practice, "Aurel Vlaicu" University Publisher, Arad, **2023**, ISBN 978-973-752-911-4.

2022

B3. Simona Gavrilăș, Chapter 20 "A Sustainable Nutritional Behavior in the Era of Climate Changes", pp. 285-295, in: Smart and Sustainable Technology for Resilient Cities and Communities. Advances in Sustainability Science and Technology, Editors: Howlett, R.J., Jain, L.C., Littlewood, J.R., Balas, M.M., Springer, Singapore, **2022**, e-Book ISBN 978-981-16-9101-0. https://doi.org/10.1007/978-981-16-9101-0_20

2017

B4. Simona Gavrilăș, Ryszard M. Kozłowski, Chapter 7 „Natural Lignocellulosic Raw Material As A Source Of Nanocellulosic Fibres”, pp. 135-147, in Natural Fibres: Properties, Mechanical behavior, Functionalization and Application, Editors: Ryszard Michal Kozłowski, Malgorzata Muzyczek, Nova Science Publishers, Inc., New York, **2017**, ISBN: 978-1-53612-071-4.

2015

B5. Simona Gavrilăș, Michaela Dina Stănescu, „Polihidroxifenoli alimentari: structuri, surse, proprietăți, influența tratamentelor enzimatică”/”Polyhydroxy food phenols: structure, sources, properties, influence of the enzymatic treatments”, "Aurel Vlaicu" University Publisher, Arad, **2015**, ISBN 978-973-752-688-5.

2010

B6. Michaela Dina Stănescu, Sergiu Erich PALCU, **Simona Gavrilaș**, „Biochimie analitică. Aplicații și probleme Ediție adăugită și revizuită“/”Analytical Biochemistry. Applications and problems. Revised and enlarged edition“, ”Aurel Vlaicu” University Publisher, Arad, **2010**, ISBN 978-973-752-498-0 (*laboratory guide*).

C. Published ISI/IDB papers

ISI journals:

2025

C1. **Gavrilaș, S.**, Raț, M., Munteanu, F.-D., Biowaste Valorisation and Its Possible Perspectives Within Sustainable Food Chain Development. *Processes*, **2025**, *13*, 2085. <https://doi.org/10.3390/pr13072085>

C2. **Gavrilaș, S.**, Burescu, F.-L., Chereji, B.-D., Munteanu, F.-D. The Impact of Anthropogenic Activities on the Catchment's Water Quality Parameters. *Water*, **2025**, *17*, 1791. <https://doi.org/10.3390/w17121791>

C3. **Gavrilaș, S.**, Nanomembranes as Eco-Friendly Instruments for Modern Food Processing, from Filtration to Packaging. *Membranes*, **2025**, *15*, 167. <https://doi.org/10.3390/membranes15060167>

C4. **Gavrilaș, S.**, Brînzan, O., Blaga, R.L., Sinaci, M., Tigan, E., Mateoc-Sîrb, N., The Impact of Lifestyle on Individual's Perception of Urban Agriculture. *Agriculture*, **2025**, *15*, 314. <https://doi.org/10.3390/agriculture15030314>

C5. **Gavrilaș, S.**, Brînzan, O., Tigan, E., Blaga, R.L., Iancu, T., Assessing Urban Agriculture's Potential for Biodiversity Conservation, Carbon Sequestration, and Community Development: A Comparative Study of Residents' Perceptions in Three Western Romanian Cities. *Land*, **2025**, *14*, 271. <https://doi.org/10.3390/land14020271>

2024

C6. Elena-Violeta Blidar, **Simona Gavrilaș**, Claudiu-Ștefan Ursachi, Simona Perța-Crișan, Florentina-Daniela Munteanu, Comparative analysis of the water quality at Mureș river basin based on measured parameters and water pollution index. *St. Cerc. St. CICBIA*, **2024**, *25* (4), pp. 377-392. <https://doi.org/10.29081/ChIBA.2024.622>

C7. **Simona Gavrilaș**, Mihaela Dochia, Andreea-Raluca Sărsan, Bianca-Denisa Chereji, Florentina-Daniela Munteanu, Use of Vegetable Waste for New Ecological Methods in Wool Fibre Treatments. *Clean Technol.*, **2024**, *6*(4), 1326-1339. <https://doi.org/10.3390/cleantechnol6040063>

C8. Florentina Bud, Simona Perța-Crișan, Claudiu-Ștefan Ursachi, **Simona Gavrilaș**, Florentina-Daniela Munteanu, Wastewater global pollution index as an indicator in assessing the quality of the effluent from the Arad municipal treatment plant. *St. Cerc. St. CICBIA*, **2024**, *25* (3). <https://doi.org/10.29081/ChIBA.2024.604>

C9. Andreea Gostaviceanu, **Simona Gavrilaș**, Lucian Copolovici, Dana Maria Copolovici, Graphene-Oxide Peptide-Containing Materials for Biomedical Applications. *Int. J. Mol. Sci.*, **2024**, *25*, 10174. <https://doi.org/10.3390/ijms251810174>

C10. **Gavrilaș S.**, Coșarbă E., Roman A. F., Torkos H., Kelemen G., Assessing the opportunities offered by the implementation of the teaching method through thematic project for future teachers in preschool and primary education. *Revista Românească pentru Educație Multidimensională*, **2024**, *16*(3), 64-87, <https://doi.org/10.18662/rrem/16.3/883>.

C11. Ramona-Carmen Hărțău, Claudiu-Ștefan Ursachi, Simona Perța-Crișan, **Simona Gavrilăș**, Florentina-Daniela Munteanu, Source risk assessment for heavy metals in soil on the site of a hydrocarbon power plant. *St. Cerc. St. CICBIA*, **2024**, 25 (2), 203-214. <https://doi.org/10.29081/ChIBA.2024.595>

2023

C12. Elena Violeta Blidar, **Simona Gavrilăș**, Claudiu-Ștefan Ursachi, Simona Perța-Crișan, Florentina-Daniela Munteanu, Perceptions on Drinking Water and Wastewater in a Local Area in Western Romania. *Applied Sciences*, **2023**, 13, no. 20: 11401. <https://doi.org/10.3390/app132011401>. **I.F.** 2.7

C13. Andreea Gostaviceanu, **Simona Gavrilăș**, Lucian Copolovici, Dana-Maria Copolovici, Membrane-Active Peptides and Their Potential Biomedical Application. *Pharmaceutics*, **2023**, 15, 2091. <https://doi.org/10.3390/pharmaceutics15082091>. **I.F.** 5.4

C14. Eugenia Țigan, Monica Lungu, Oana Brînzan, Radu Lucian Blaga, Ioana Anda Milin, **Simona Gavrilăș**, Responsibility as an Ethics and Sustainability Element during the Pandemic. *Behav. Sci.* **2023**, 13, 615. <https://doi.org/10.3390/bs13070615>. **I.F.** 2.6

2022

C15. Maria-Daniela Mot, **Simona Gavrilăș**, Andreea I. Lupitu, Cristian Moisa, Dorina Chambre, Delia Mirela Tit, Mihaela Alexandra Bogdan, Adina-Maria Bodescu, Lucian Copolovici, Dana Maria Copolovici, Simona Gabriela Bungau, *Salvia officinalis* L. Essential Oil: Characterization, Antioxidant Properties, and the Effects of Aromatherapy in Adult Patients. *Antioxidants*, **2022**, 11, 808. <https://doi.org/10.3390/antiox11050808>. **I.F.** 6.313

C16. Andreea Lupitu, Cristian Moisa, **Simona Gavrilăș**, Mihaela Dochia, Dorina Chambre, Virgiliu Ciutină, Dana Maria Copolovici, Lucian Copolovici, The Influence of Elevated CO₂ on Volatile Emissions, Photosynthetic Characteristics, and Pigment Content in *Brassicaceae* Plants Species and Varieties. *Plants*, **2022**, 11, 973. <https://doi.org/10.3390/plants11070973>. **I.F.** 3.935

C17. Eugenia Țigan, Radu Lucian Blaga, Florin-Lucian Isac, Monica Lungu, Ioana Anda Milin, Florin Tripa, **Simona Gavrilăș**, Analysis of Sustainable Communication Patterns during the Telework Period in Western Romanian Corporations. *Int. J. Environ. Res. Public Health*, **2022**, 19, 9796. <https://doi.org/10.3390/ijerph19169796>. **I.F.** 4.614

C18. **Simona Gavrilăș**, Claudiu Ștefan Ursachi, Simona Perța-Crișan and Florentina-Daniela Munteanu, Recent Trends in Biosensors for Environmental Quality Monitoring. *Sensors*, **2022**, 22, 1513. <https://doi.org/10.3390/s22041513>. **I.F.** 3.576

C19. **Simona Gavrilăș**, Ioan Calinovici, Sabin Chiș, Claudiu-Ștefan Ursachi, Mirabela Raț and Florentina-Daniela Munteanu, White Grape Pomace Valorization for Remediating Purposes. *Appl. Sci.*, **2022**, 12, 1997. <https://doi.org/10.3390/app12041997>. **I.F.** 2.679

2021

C20. Eugenia Țigan, Oana Brînzan, Ciprian Obrad, Monica Lungu, Nicoleta Mateoc-Sîrb, Ioana Anda Milin, **Simona Gavrilăș**, The Consumption of Organic, Traditional, and/or European Eco-Label Products: Elements of Local Production and Sustainability. *Sustainability*, **2021**, 13, 9944. <https://doi.org/10.3390/su13179944>. **I.F.** 3.251.

C21. Simona Perța-Crișan, Claudiu Ștefan Ursachi, **Simona Gavrilăș**, Florin Oancea, Florentina-Daniela Munteanu, Closing the loop with keratin-rich fibrous materials. *Polymers*, **2021**, *13*, 1896. <https://doi.org/10.3390/polym13111896>. **I.F.** 3.426

2020

C22. **Simona Gavrilăș**, Claudiu-Ștefan Ursachi, Mihaela Dochia, Simona Perța-Crișan, Florentina-Daniela Munteanu, The influence of different vacuum impregnation solutions on the colour of fresh-cut apple slices. *St. Cerc. St. CICBIA*, **2020**, *21* (4), 523-531.

2019

C23. Violeta Năstuneac, **Simona Gavrilăș**, Florentina-Daniela Munteanu, Assessment of the water quality in Siret hydrographic basin. *St. Cerc. St. CICBIA*, **2019**, *20* (3), 471-480.

C24. Dorina Chambre, Mihaela Dochia, **Simona Gavrilăș**, TG/DTG analysis of an eco-friendly scoured fabric, **2019**, *Rev. Roum. Chim.*, *64*(5), 353-460. **I.F.** 0.370

C25. Violeta Năstuneac, Mirela Panainte-Lehadus, Emilian Florin Mosnegut, **Simona Gavrilăș**, Gabriela Cioca, Florentina-Daniela Munteanu, Removal of Cypermethrin from Water by Using *Fucus Spiralis* Marine Alga. *Int. J. Environ. Res. Public Health*, **2019**, Volume 16, Issue 19, 3663. <https://doi.org/10.3390/ijerph16193663>

2018

C26. Dorina-Rodica Chambre, **Simona Gavrilăș**, Michaela Dina Stănescu, Crisan Popescu, Thermal analysis for depiction of a laccase-PVA biocomposite. **2018**, *Rev. Roum. Chim.*, *63*(9), 855-860. **I.F.** 0.370

C27. Mihaela Dochia, Dorina Chambre, **Simona Gavrilăș**, Cristian Moisă, Characterization of the complexing agents' influence on bioscouring cotton fabrics by FT-IR and TG/DTG/DTA analysis. *J. Therm. Anal. Calorim.*, **2018**, *132*(3), 1489-1498. <https://doi.org/10.1007/s10973-018-7089-y>. **I.F.** 2.209

2016

C28. **Simona Gavrilăș**, Michaela Dina Stănescu, Improving the antioxidant properties of wild raspberry juice by enzymatic treatments. *Rev. Chim.-Bucharest*, **2016**, *67*, 219-222. **I.F.** 1.232

2012

C29. Michaela Dina Stănescu, **Simona Gavrilăș**, Roland Ludwig, Dietmar Haltrich, Vladimir I. Lozinsky, Preparation of immobilized *Trametes pubescens* laccase on a cryogel-type polymeric carrier and application of the biocatalyst to apple juice phenolic compounds oxidation. *Eur. Food Res. Technol.*, **2012**, *234*, 655-662. <https://doi.org/10.1007/s00217-012-1676-0>. **I.F.** 1.463

2010

C30. Michaela Dina Stănescu, Magdalena Fogorasi, Boris. L. Shaskolskiy, **Simona Gavrilăș**, Vladimir. I. Lozinsky, New Potential Biocatalysts by Laccase Immobilization in PVA Cryogel Type Carrier, *Appl. Biochem. Biotechnol.*, **2010**, *160*, 1947-1954. <https://doi.org/10.1007/s12010-009-8755-0>. **I.F.** 1.530

C31. Maria-Raluca Szabo, Dana Radu, **Simona Gavrilas**, Dorina Chambre, Cornelia Iditoiu, Antioxidant and antimicrobial properties of selected spice extracts. *Int. J. Food Prop.*, **2010**, *13*, 535-545. **I.F.** 1.200

ISI Proceedings:

2018

C32. Mihaela Dochia, Monica Pustianu, Cristian Moisă, Dorina Chambre, **Simona Gavrilas**, Sodium citrate as an eco-friendly complexing agent for the bioscouring treatment of the cellulosic/lignocellulosic fabrics, **2018**, *Chem. Pap.*, *72*(8), 1881-1888. **I.F.** 0.963

2016

C33. Dochia Mihaela, **Gavrilas Simona**, Pustianu Monica, Tomescu Daniel, Copolovici Dana Maria, Comparative study regarding the influence of the complexing agents EDTA and sodium citrate on the 50% flax-50% cotton fabrics during the bioscouring treatment. *16th International Multidisciplinary Scientific Geoconference SGEM 2016, Book 6, Nano, Bio and Green-Technologies for a Sustainable Future, Conference Proceedings*, **2016**, III, ISBN 978-619-7105-79-7, ISSN 1314-2704, DOI 10.5593/sgem2016HB63, 223-230.

C34. Monica Pustianu, Mihaela Dochia, Cecilia Sirghie, **Simona Gavrilas**, Daniel Tomescu, Treatment optimization for bioscouring in ultrasound of cotton/cottonised hemp blended fabrics. *Proceedings of the 7th International Workshop on Soft Computing Applications (SOFA 2016)*, Volume 2, Advances in Intelligent Systems and Computing 634, Springer Publishing, DOI: 10.1007/978-3-319-62524-9_44, 595-604.

C35. Bălaș Marius, Sirghie Cecilia, Pustianu Monica, Dochia Mihaela, **Gavrilas Simona**, Tomescu Daniel, Fuzzy method applied on the control of textiles biotechnologies. *Proceedings of the 7th International Workshop on Soft Computing Applications (SOFA 2016)*, Volume 2, Advances in Intelligent Systems and Computing 634, Springer Publishing, DOI: 10.1007/978-3-319-62524-9_45, 605-611.

IDB journals:

2024

C36. Radu-Lucian BLAGA, Florin-Lucian ISAC, Vanina-Adoriana TRIFAN, Oana BRÎNZAN, Eugenia ȚIGAN, **Simona GAVRILAȘ**, Premises for sustainable entrepreneurial development of eastern partner countries. *Scien. Tech. Bull-Chem. Food Sci. Eng.*, Vol. 21 (XXI), **2024**, 3-12.

2023

C37. **Simona Gavrilas**, Eugenia Țigan, Oana Brinzan, Radu-Lucian Blaga, *Biomass utilization as sustainable energetic root. Proceedings of 23rd International Multidisciplinary Scientific GeoConference SGEM 2023*, **2023**, ISBN 978-619-7603-65-1, DOI 10.5593/sgem2023V/4.2/s17.51

2022

C38. **Simona Gavrilas**, Eugenia Țigan, Oana Brînzan, Preliminary analysis of the degree of awareness of the climate change causes and the impact of the ongoing actions. *Proceedings of 22nd International Multidisciplinary Scientific GeoConference SGEM 2022*, **2022**, ISBN 978-619-7603-50-7, DOI 10.5593/sgem2022V/4.2/s19.47.

C39. Gavrilăş Simona, Green methods that are used to ensure the sustainable development of the environment and the society. *MATEC Web of Conferences*, **2022**, 354, 00062, <https://doi.org/10.1051/matecconf/202235400062>.

2021

C40. Mihaela Dochia, Nicolae Dincă, **Simona Gavrilăş**, Comparative study of the chelating agents influence on the weight loss of cotton fabrics during enzymatic scouring. *Scien. Tech. Bull-Chem. Food Sci. Eng.*, Vol. 18 (XIX), **2021**, 3-9.

C41. Dochia Mihaela, **Gavrilăş Simona**, Characteristics of Wastewater from Different Pretreatments of Flax/Cotton Fabrics. *Adv. Eng. Forum.*, **2021**, 42, 143-150.

C42. Dochia Mihaela, **Gavrilăş Simona**, Szabo Monica, Dyeing of cotton materials after bioscouring and enzymatic bleaching treatments. *Annals of the University of Oradea Fascicle of textiles, leatherwork*, **2021**, 22, No. 1, ISSN 1843-813X, 83-88.

C43. Szabo Monica, Dochia Mihaela, Gavrilăş Simona, Comparative study between polyamide/elastane and cotton/polyamide/elastane socks. *Annals of the University of Oradea Fascicle of textiles, leatherwork*, **2021**, 22, No. 2, ISSN 1843-813X, 33-38.

2020

C44. Simona Gavrilăş, Students knowledge assessment criteria. *Scien. Tech. Bull-Chem. Food Sci. Eng.*, Vol. 17 (XVIII), **2020**, 9-14.

C45. Mihaela Dochia, **Simona Gavrilăş**, Eco-friendly method for pretreatment of lignocellulosic textiles. *Proceedings of the XI International Scientific Agricultural Symposium "Agrosym 2020"*, **2020**, ISBN 978-99976-787-5-1, 651-656.

C46. Dochia Mihaela, **Gavrilăş Simona**, Szabo Monica, Study of the experimental conditions in bioscouring treatment of cotton-hemp blended fabrics. *Annals of the University of Oradea Fascicle of textiles, leatherwork*, **2020**, 21, No. 1, ISSN 1843-813X, 21-26.

C47. Szabo Monica, Dochia Mihaela, **Gavrilăş Simona**, The behaviour of rib 1:1 and 2:2 knitted cotton fabrics during different solicitations and treatments. *Annals of the University of Oradea Fascicle of textiles, leatherwork*, **2020**, 21, No. 1, ISSN 1843-813X, 127-132.

2019

C48. Gavrilăş Simona, Improvement of didactic methods used in science domain. *Scien. Tech. Bull-Chem. Food Sci. Eng.*, Vol. 16(XVII), **2019**, 23-28

C49. Simona Gavrilăş, Violeta Năstuneac, Florentina-Daniela Munteanu, Treatment of hemp retting wastewaters: use of by-products from winemaking industry. International Symposium "The environment and the industry", SIMI, **2019**, Proceeding Book, 107-112, DOI: <http://doi.org/10.21698/simi.2019.fp14>

C50. Andreea Bujdei, **Simona Gavrilăş**, Mihaela Dochia, Florentina-Daniela Munteanu, Vegetable food waste for cotton dyeing-new directions for environmental sustainability. International Symposium "The environment and the industry", SIMI, **2019**, Proceeding Book, 113-120, DOI: <http://doi.org/10.21698/simi.2019.fp15>

C51. Gavrilăş Simona, Brînzan Oana, Țigan Eugenia, Circular agri-food models-opportunity for new bio based business models. *6th SWS International Scientific Conference on social sciences 2019, Economics & Finance, Business & Management, Conference*

Proceedings, **2019**, 6, Issue 2, ISBN 978-619-7408-92-8, DOI 10.5593/SWS.ISCSS.2019.2, 49-55.

C52. Brînzan Oana, **Gavrilaș Simona**, Țigan Eugenia, Agriculture as a result of ecosystem service. *6th SWS International Scientific Conference on social sciences 2019, Economics & Finance, Business & Management, Conference Proceedings*, **2019**, 6, Issue 2, ISBN 978-619-7408-92-8, DOI 10.5593/SWS.ISCSS.2019.2, 11-16.

C53. Dochia Mihaela, **Gavrilaș Simona**, Physico-chemical parameters of residual water from different scouring treatments of hemp/cotton fabric. *Annals of the University of Oradea Fascicle of textiles, leatherwork*, **2019**, XX, No. 1, ISSN 1843-813X, 41-46.

C54. **Gavrilaș Simona**, Dochia Mihaela, Efficiency assessment of the different scouring conditions of cotton materials by ruthenium red dyeing. *Annals of the University of Oradea Fascicle of textiles, leatherwork*, **2019**, XX, No. 2, ISSN 1843-813X, 39-44.

2018

C55. Eugenia Țigan, **Simona Gavrilaș**, Oana Brînzan, Monica Lungu, Anda Ioana Milin, Promoting sustainable development through eco-labelled products, study case for some consumer products. *18th International Multidisciplinary Scientific Geoconference SGEM 2018, Energy and Clean Technologies, Conference Proceedings*, **2018**, 17, Issue 4.3, ISBN 978-619-7408-70-6, doi.org/10.5593sgem2018/4.3, 87-95.

C56. **Gavrilaș Simona**, Meșter Mihaela-Georgina, Marty Jean-Louis, Munteanu Florentina-Daniela, Immunological and chemical assay made on traditional dairy. *18th International Multidisciplinary Scientific Geoconference SGEM 2018, Nano, Bio, Green and Space-Technologies for a Sustainable Future, Conference Proceedings*, **2018**, 18, Issue 6.2, ISBN 978-619-7408-51-5, ISSN 1314-2704, doi.org/10.5593/sgem2018/6.2, 237-244.

C57. Dochia Mihaela, **Gavrilaș Simona**, Pustianu Monica, Moisă Cristian, Chambre Dorina, Waste water analysis from a new green pretreatment of cotton fabrics. *Annals of the University of Oradea Fascicle of textiles, leatherwork*, **2018**, XIX, No. 2, ISSN 1843 – 813X, 37-42.

C58. Pustianu Monica, Dochia Mihaela, **Gavrilaș Simona**, Moisă Cristian, Biotreatment optimization for a cellulosic/lignocellulosic blended fabric. *Annals of the University of Oradea Fascicle of textiles, leatherwork*, **2018**, XIX, No. 1, ISSN 1843-813X, 83-88.

C59. Monica Pustianu, Mihaela Dochia, **Simona Gavrilaș**, Daniel Tomescu, Comparative study on treatment bioscouring optimization with and without ultrasound for 50 % of cotton + 50 % of flax materials. *Adv. Eng. Forum.*, **2018**, 27, 111-117.

2017

C60. Dochia Mihaela, Pustianu Monica, **Gavrilaș Simona**, Tomescu Daniel, Copolovici Dana Maria, Study of the ultrasound efficiency on bioscouring treatment of hemp-cotton fabrics. *17th International Multidisciplinary Scientific Geoconference SGEM 2017, Micro and Nano Technologies Advanced in Biotechnology, Conference Proceedings*, **2017**, 17, Issue 61, ISBN 978-619-7408-12-6, ISSN 1314-2704, DOI 10.5593/sgem2017/61, 1015-1023.

C61. Pustianu Monica, Dochia Mihaela, **Gavrilaș Simona**, Tomescu Daniel, Study of the efficiency of bioscouring by determination of the residual Ca^{2+} from flax-cotton fabrics. *17th International Multidisciplinary Scientific Geoconference SGEM 2017, Micro and Nano*

Technologies Advanced in Biotechnology, Conference Proceedings, **2017**, 17, Issue 61, ISBN 978-619-7408-12-6, ISSN 1314-2704, DOI 10.5593/sgem2017/61, 1007-1014.

C62. Dochia Mihaela, Pustianu Monica, **Gavrilaș Simona**, Tomescu Daniel, Copolovici Dana Maria, Study on the influence of ultrasound in bioscouring treatment of 50 % of flax + 50 % of cotton fabrics. *Annals of the University of Oradea, Fascicle of textiles, leatherwork*, **2017**, XVIII, No. 1, ISSN 1843-813X, 27-32.

C63. Pustianu Monica, Dochia Mihaela, **Gavrilaș Simona**, Tomescu Daniel, Copolovici Dana Maria, Study on the bioscouring treatment of 50 % of hemp + 50 % of cotton fabrics. *Annals of the University of Oradea, Fascicle of textiles, leatherwork*, **2017**, XVIII, No. 2, ISSN 1843-813X, 29-34.

2012

C64. **Simona Gavrilaș**, Florina Dumitru, Michaela Dina Stănescu, Commercial laccase oxidation of phenolic compounds. *U.P.B. Sci. Bull., Series B: Chemistry and Material Sciences*, **2012**, 74, Iss. 4, 3-10.

D. Papers published in journals and conference volumes reviewers (unindexed)

2024

D1. Radu-Lucian Blaga, Eugenia Țigan, **Simona Gavrilaș**, Economic and environmental approaches for agro-based sectors sustainable development. *Proceedings of the 1st International Conference TENDEV 2023-Challenges and Strategies for Sustainable Development facing the Climate Change*, **2024**, Peter Lang GmbH, Berlin, Germany, E-ISBN 978-3-631-92299-6 (EPUB); <https://doi.org/10.3726/b22066>.

2021

D2. **Simona Gavrilaș**, The childrens psychological chart. Students participation to the scientific communications-EfaStud 2020, XIIth Edition, *The role of education in the formation of initial professional skills during the COVID-19 pandemic*, "Aurel Vlaicu" University Publishing House, **2021**, ISBN 978-973-752-853-7, 34-37.

2017

D3. **Simona Gavrilaș**, Florentina-Daniela Munteanu, Determination of ascorbic acid in fruit juices. *Scien. Tech. Bull-Chem. Food Sci. Eng.*, Vol. 14 (XV), **2017**, 33-37.

2015

D4. **Simona Gavrilaș**, Învățarea, afecțiunea socială și jocul, stări dominante în dezvoltarea individuală. Profesorul Florea Voiculescu la 65 de ani-Volum aniversar-Studii de pedagogie, Editura Didactică și Pedagogică. R.A., București, ISBN 978-606-31-0023-9, **2015**, 152-158.

2014

D5. **Gavrilaș Simona**, Parents "trade" where to?. 3rd International Conference "Modernity and competitiveness in Education", Bucharest, 14 May **2014**, ISSN 2248-230x.

2013

D6. Simona Gavrilăş, Mirela Gornic, Eleonora Bundiş, Creativity in pedagogical research. Annual Training Conference papers „*Research and practice in modern teaching*“, Alba Iulia, **2013**, ISSN 2344-4142, 142-145.

2010

D7. Michaela Dina Stănescu, Dorina Rodica Chambre, **Simona Gavrilăş**, Adina-Maria Bodescu, Thermal degradation of free and immobilized laccase. *Scien. and Techn. Bull. Chemistry, Food Sciences & Engineering*, **2010**, *14*, 18-21.

2008

D8. Radu Dana Gina, **Gavrilăş Simona**, Stănescu Michaela Dina, Pectinases for improving raspberry and blackberry juice production. *Scien. and Techn. Bull. Chemistry, Food Sciences & Engineering*, **2008**, *13*, 121-124.

2007

D9. Chambre Dorina, Szabo Maria-Raluca, **Gavrilăş Simona**, Idrîoiu Cornelia, Enzymatic analysis of glucose, fructose and saccharose mixtures in food stuffs. *Scien. and Techn. Bull. Chemistry, Food Sciences & Engineering*, **2007**, *12*, 40-44.

E. Research contracts

International proiect, national partener implementation responsible:

E1. 01.11.2023-31.10.2026, ERASMUS+ **Project** 2023-1-DE01-KA220-HED-000166720-*The Future of Precision Agriculture-Machine Learning for Autonomous decision Mechanism-”SMART Farming”*

E2. 06.04.2020-05.04.2022, ERASMUS+ **Project** 2019-3-TR01-KA205-080177-”Green Thinking Entrepreneur Youth”

National projects director:

E3. 12.11.-10.12.2019, PN-III-P1-1.1-MC-2019-2082

E4. 29.06-10.07.2018, PN-III-P1-1.1-MC-2018-0469.

E5. 31.01-02.03.2018, PN-III-P1-1.1-MC-2017-2337.

Mobility and research grants director:

E6. 26-28 November 2012, *Travel grant* at **FP7 FCUB-ERA-Belgrade** Food International Conference, Belgrad, Serbia.

E7. 7-10.09.2011, “*Travel grant for students and researchers from Central and Eastern Europe at CEEC-TAC1* by CEEC-TAC” (1st Central and Eastern European Conference on Thermal Analysis and Calorimetry), Craiova, Romania.

E8. 31.08-03.09.2011, *ESF Student Grant* oferit de European Science Foundation at 4ECCLS (4th European Conference on Chemistry for Life Sciences), Budapest, Hungary.

E9. 23-25 September 2009, *Travel grant* at 3rd Annual workshop and Management Committee meeting of COST Action 928, University of Agriculture Congress Centre, Krakow, Poland.

E10. 15.03-15.05.2009, **COST-STSM-928-04562 Grant** *Utilisation of different types of laccase for improving food quality*, Viena, Austria.

Member of the international project team:

E11. 2015, *Biodiversity and species with high functional nutraceutical value*, Consiglio Nazionale delle Ricerche-Istituto di Bioscienze e Bioresorse-(IBBR-CNR) Basilicata-Italy.

Member of the national project team:

E12. 01.07.2022-31.12.2024, *Cell-penetrating peptides-containing systems as a potential platform for the use in breast and prostate cancer treatment*, **PN-III-P4-PCE-2021-0639**

E13. 01.03.2021-31.12.2022, *The impact of abiotic and biotic stress on plants due to climate change*, **PN-III-P4-ID-PCE-2020-0410**.

E14. 01.05.2020-30.11.2020, *Environmental quality assessment laboratory for student practice*, **CNFIS-FDI-2020-0178**.

E15. 2018-2020, *Closing the bioeconomy value chains by manufacturing market demanded innovative bioproduct*, **PN-III-P1-1.2-PCCDI-2017-0569**.

E16. 2017-2018, *Winemaking by-products applications for wastewater treatment*, **PN-III-P3-3.1-PMRO-FR-2016-0030**.

E17. 01.09.-30.11.2016, *Ways of ensuring equity in education and increasing access to higher education*, **CNFIS-FDI-2016-0046**.

E18. 01.03.-30.11.2016, 01.05.-31.08.2017, *Environment-friendly technologies for the treatment of cellulosic, lignocellulosic and mixture of those materials*, Project **PN-II-RU-TE-2014-4-1370**.

E19. 2008-2009, *New Biomaterials by Enzyme Immobilization in/on Cryogel-Based Macroporous Carriers (#07-03-91682 RA_a)*.

E20. 2007, *New process for obtaining fructose, a natural sweetener with high quality for obese and diabetics*. **Grant C.N.C.S.I.S.**, cod 244.

E21. 2006-2008: Excellence research consortium CEEX; VIASAN affiliation: *Expression determination of the glycosphingolipids complex in the central nervous system by integrated multipurpose microchip devices coupled with high performance mass spectrometry*.

09.10.2025

Lect. PhD. Eng. **GAVRILAȘ Simona**