

**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 Gavrițaș**, 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 Gavrițaș**, 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 Gavrițaș**, 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](https://doi.org/10.1007/978-981-16-9101-0_20)

**2017**

**B4. Simona Gavrițaș**, 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 Gavrițaș**, 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 Gavrițaș**, „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:**

**2024**

**C1.** **Simona Gavrițaș**, 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>

**C2.** Florentina Bud, Simona Perța-Crișan, Claudiu-Ștefan Ursachi, **Simona Gavrițaș**, 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>

**C3.** Andreea Gostaviceanu, **Simona Gavrițaș**, 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/ijms 251810174>

**C4.** **Gavrițaș 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>.

**C5.** Ramona-Carmen Hărțău, Claudiu-Ștefan Ursachi, Simona Perța-Crișan, **Simona Gavrițaș**, 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**

**C6.** Elena Violeta Blidar, **Simona Gavrițaș**, 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**

**C7.** Andreea Gostaviceanu, **Simona Gavrițaș**, 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**

**C8.** Eugenia Țigan, Monica Lungu, Oana Brînzan, Radu Lucian Blaga, Ioana Anda Milin, **Simona Gavrițaș**, 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**

**C9.** Maria-Daniela Mot, **Simona Gavrițaș**, 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**

**C10.** Andreea Lupitu, Cristian Moisa, **Simona Gavrilas**, Mihaela Dochia, Dorina Chambre, Virgiliu Ciutină, Dana Maria Copolovici, Lucian Copolovici, The Influence of Elevated CO<sub>2</sub> 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**

**C11.** Eugenia Țigan, Radu Lucian Blaga, Florin-Lucian Isac, Monica Lungu, Ioana Anda Milin, Florin Tripa, **Simona Gavrilas**, 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**

**C12.** **Simona Gavrilas**, 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**

**C13.** **Simona Gavrilas**, 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

**C14.** Eugenia Țigan, Oana Brînzan, Ciprian Obrad, Monica Lungu, Nicoleta Mateoc-Sîrb, Ioana Anda Milin, **Simona Gavrilas**, 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**.

**C15.** Simona Perța-Crișan, Claudiu Ștefan Ursachi, **Simona Gavrilas**, 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

**C16.** **Simona Gavrilas**, 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

**C17.** Violeta Năstuneac, **Simona Gavrilas**, Florentina-Daniela Munteanu, Assesment of the water quality in Siret hydrographic basin. *St. Cerc. St. CICBIA*, **2019**, 20 (3), 471-480.

**C18.** Dorina Chambre, Mihaela Dochia, **Simona Gavrilas**, TG/DTG analysis of an eco-friendly scoured fabric, **2019**, *Rev. Roum. Chim.*, 64(5), 353-460. **I.F. 0.370**

**C19** Violeta Nastuneac, Mirela Panainte-Lehadus, Emilian Florin Mosnegut, **Simona Gavrilas**, 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.

**2018**

**C20.** Dorina-Rodica Chambre, **Simona Gavrilas**, Michaela Dina Stanescu, Crisan Popescu, Thermal analysis for depiction of a laccase-PVA biocomposite. **2018**, *Rev. Roum. Chim.*, 63(9), 855-860. **I.F. 0.370**

**C21.** Mihaela Dochia, Dorina Chambre, **Simona Gavrilas**, 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. **I.F. 2.209**

**2016**

**C22.** **Simona Gavrilas**, 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**

**C23.** Michaela Dina Stănescu, **Simona Gavrilas**, 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. **I.F. 1.463**

**2010**

**C24.** Michaela Dina Stănescu, Magdalena Fogorasi, Boris. L. Shaskolskiy, **Simona Gavrilas**, Vladimir. I. Lozinsky, New Potential Biocatalysts by Laccase Immobilization in PVA Cryogel Type Carrier, *Appl. Biochem. Biotechnol.*, **2010**, 160, 1947-1954. **I.F. 1.530**

**C25.** 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**

**C26.** 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**

**C27.** 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. *16<sup>th</sup> 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.

**C28.** Monica Pustianu, Mihaela Dochia, Cecilia Sîrghie, **Simona Gavrilas**, Daniel Tomescu, Treatment optimization for bioscouring in ultrasound of cotton/cottonised hemp blended fabrics. *Proceedings of the 7<sup>th</sup> 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.

**C29.** Bălaș Marius, Sîrghie Cecilia, Pustianu Monica, Dochia Mihaela, **Gavrilaș Simona**, Tomescu Daniel, Fuzzy method applied on the control of textiles biotechnologies. *Proceedings of the 7<sup>th</sup> 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:**

##### **2023**

**C30.** **Simona Gavrilaș**, Eugenia Țigan, Oana Brinzan, Radu-Lucian Blaga, *Biomass utilization as sustainable energetic root. Proceedings of 23<sup>rd</sup> International Multidisciplinary Scientific GeoConference SGEM 2023*, 2023, ISBN 978-619-7603-65-1, DOI 10.5593/sgem2023V/4.2/s17.51

##### **2022**

**C31.** **Simona Gavrilaș**, 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 22<sup>nd</sup> International Multidisciplinary Scientific GeoConference SGEM 2022*, 2022, ISBN 978-619-7603-50-7, DOI 10.5593/sgem2022V/4.2/s19.47.

**C32.** **Gavrilaș 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**

**C33.** Mihaela Dochia, Nicolae Dincă, **Simona Gavrilaș**, 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.

**C34.** Dochia Mihaela, **Gavrilaș Simona**, Characteristics of Wastewater from Different Pretreatments of Flax/Cotton Fabrics. *Adv. Eng. Forum.*, 2021, 42, 143-150.

**C35.** Dochia Mihaela, **Gavrilaș 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.

**C36.** Szabo Monica, Dochia Mihaela, Gavrilaș 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**

**C37.** **Simona Gavrilaș**, Students knowledge assessment criteria. *Scien. Tech. Bull-Chem. Food Sci. Eng.*, Vol. 17 (XVIII), 2020, 9-14.

**C38.** Mihaela Dochia, **Simona Gavrilaș**, 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.

**C39.** Dochia Mihaela, **Gavrilaș 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.

**C340.** Szabo Monica, Dochia Mihaela, **Gavrilaş 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

**C41.** **Gavrilaş Simona**, Improvement of didactic methods used in science domain. *Scien. Tech. Bull-Chem. Food Sci. Eng.*, Vol. 16(XVII), **2019**, 23-28

**C42.** **Simona Gavrilaş**, 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>

**C43.** Andreea Bujdei, **Simona Gavrilaş**, 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>

**C44.** **Gavrilaş Simona**, Brînzan Oana, Țigan Eugenia, Circular agri-food models-opportunity for new bio based business models. *6<sup>th</sup> 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.

**C45.** Brînzan Oana, **Gavrilaş Simona**, Țigan Eugenia, Agriculture as a result of ecosystem service. *6<sup>th</sup> 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.

**C46.** Dochia Mihaela, **Gavrilaş 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.

**C47.** **Gavrilaş 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

**C48.** Eugenia Țigan, **Simona Gavrilaş**, Oana Brînzan, Monica Lungu, Anda Ioana Milin, Promoting sustainable development through eco-labelled products, study case for some consumer products. *18<sup>th</sup> 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.

**C49.** **Gavrilaş Simona**, Meşter Mihaela-Georgina, Marty Jean-Louis, Munteanu Florentina-Daniela, Immunological and chemical assay made on traditional dairy. *18<sup>th</sup> 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.

**C50.** Dochia Mihaela, **Gavrilaş 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.

**C51.** Pustianu Monica, Dochia Mihaela, **Gavrilaş 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.

**C52.** Monica Pustianu, Mihaela Dochia, **Simona Gavrilaş**, 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**

**C53.** Dochia Mihaela, Pustianu Monica, **Gavrilaş Simona**, Tomescu Daniel, Copolovici Dana Maria, Study of the ultrasound efficiency on bioscouring treatment of hemp-cotton fabrics. *17<sup>th</sup> 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.

**C54.** Pustianu Monica, Dochia Mihaela, **Gavrilaş Simona**, Tomescu Daniel, Study of the efficiency of bioscouring by determination of the residual Ca<sup>2+</sup> from flax-cotton fabrics. *17<sup>th</sup> 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.

**C55.** Dochia Mihaela, Pustianu Monica, **Gavrilaş 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.

**C56.** Pustianu Monica, Dochia Mihaela, **Gavrilaş 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**

**C57.** **Simona Gavrilaş**, 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 Ţigan, **Simona Gavrilaş**, Economic and environmental approaches for agro-based sectors sustainable development. *Proceedings of the 1<sup>st</sup> 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 Gavrilaş**, The childrens psychological chart. Students participation to the scientific communications-EfaStud 2020, XII<sup>th</sup> 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 Gavrilaş**, 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 Gavrilaş**, 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. Gavrilaş Simona**, Parents "trade" where to?. 3<sup>rd</sup> International Conference "Modernity and competitiveness in Education", Bucharest, 14 May **2014**, ISSN 2248-230x.

**2013**

**D6. Simona Gavrilaş**, Mirela Gornic, Eleonora Bundiș, 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 Gavrilaş, 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, Gavrilaş 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, Gavrilaş Simona, Idițoiu 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**

*Internațional 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” (1<sup>st</sup> 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 (4<sup>th</sup> European Conference on Chemistry for Life Sciences), Budapest, Hungary.*

**E9. 23-25 September 2009**, *Travel grant at 3<sup>rd</sup> 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, Proiect 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 CEEEX; VIASAN affiliation: *Expression determination of the glycosphingolipids complex in the central nervous system by integrated multipurpose microchip devices coupled with high performance mass spectrometry.*

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