

## Europass Curriculum vitae



### Personal informations

First name(s) / Surname(s) **ELISABETA-IRINA, GEANĂ**  
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Nationality Romanian  
Date of birth 25, Nov., 1982  
Gender F

### Work experience

#### **Doctor in the field of chemistry/ Principal Scientific researcher, CS I**

- **2008 - present**, Research and Development Department, National R&D Institute of Cryogenics and Isotopic Technologies - ICSI, Rm. Valcea (**2019** - Principal Scientific Researcher, CS I; since 2015 – Responsible of “Natural compounds investigations in foods and beverages” group, within the Research Department - ICSI Analytics (<http://erris.gov.ro/R&DTT-Laboratories>); since 2010 – Responsible of Laboratory of Liquid Chromatography; 2009 - Scientific Researcher III, CS III; 2008 – Asistant Scientific Researcher)
- **2007-2008**: Chemist analyst, Quality Control Department, Sc Biofarm SA, Bucharest, Romania
- **2005-2007**: Chemist, Organic Synthesis Laboratory, National Institute for Chemical Pharmaceutical Research and Development, Bucharest, Romania.

### Education

- **2019-2021**: Postdoctoral program, Polytechnic University of Bucharest, Faculty of Applied Chemistry and Materials Science
- **2008-2015**: Ph.D., chemistry, Department of Analytical Chemistry, Faculty of Chemistry, University of Bucharest, Bucharest, Romania,
- **2005-2007**: M.S., Therapeutic Chemistry, Faculty of Chemistry, University of Bucharest, Bucharest, Romania,
- **2001-2005**: B.S., Chemist, Department of Organic Chemistry, Faculty of Chemistry, University of Bucharest, Bucharest, Romania

### Training

- 28-29 June 2018, General requirements for the competence of testing and calibration laboratories according to SR EN ISO / IEC 17025: 2018, CERT IND Vocational Training Center, Bucharest
- March 2016, Scientific Seminar „Comprehensive two-dimensional gas chromatography coupled with mass spectrometry and its applications”, LECOROM Analitica SRL, Romania
- 2011, 10-11 March, Certificate of participation “Training in Metrology in Chemistry”, training course organised by Institute for Reference Materials and Measurements, Bucharest, Romania.

	<ul style="list-style-type: none"> <li>2007, 19-20 December, Certificate of participation “Principles and Application of Metrology in Chemistry”, Training in Metrology in Chemistry (TrainMic), organised by Institute for Reference Materials and Measurements, JRC in collaboration with I.N.C.D.M.I Cantacuzino, Bucharest, Romania, SC Mecro Sistem SRL, Bucharest, Romania.</li> <li>2007, 11-14 June, Certificate of participation „Monitoring of organic pollutants by chromatographic techniques”, organised by Research Center for environment protection and waste recovery, University of Bucharest in collaboration with SC Mecro Sistem SRL, Bucharest, Romania.</li> <li>2007, 01-03 June, Certificate GMP Training (Requirements for personnel, Personnel Hygiene, Environmental Monitoring, Quality Control), S.C. Biofarm SA, Bucharest.</li> </ul>
<b>Research interests</b>	<ul style="list-style-type: none"> <li>developing analytical methods for quality control and food authentication (honey, wine, fruits, plants, organic products, functional foods based on bee products), by highlighting key biomarkers used in authentication and quality control</li> <li>characterization and identification of bioactive compounds (polyphenols, triterpenic acids, amino acids, organic acids, minerals) in different foods, plant matrices and by-products</li> <li>monitoring environmental contamination (water, air – emissions and immissions, sediments and soils) investigating contaminants such as polycyclic aromatic hydrocarbons (PAHs), heavy metals and pesticides and their impact on the environment</li> </ul>
<b>Technical skills</b>	<ul style="list-style-type: none"> <li>UHPLC-MS/MS, UHPLC-DAD, UHPLC-FL, UHPLC-ELSD, UV-Vis, ICP-MS, AAS, electrochemistry (sensors/biosensors), extraction techniques (MAE, ASE, Soxhlet).</li> </ul>
<b>Publications and projects</b>	<ul style="list-style-type: none"> <li>60 articles in ISI journals, for the specific research domains (chemistry multidisciplinary, food science technology, chemistry analytical, chemistry applied, engineering chemical, environmental science); 6 articles indexed in international databases; 23 articles in BDI journals; more than 40 participations at prestigious international conferences and more than 50 participation at national conferences.</li> <li>Project leader/responsible for 6 national projects and key person in 29 national and 2 international projects</li> </ul>
<b>Citation Metrics</b>	<ul style="list-style-type: none"> <li>ISI Web of Science citations: 879 (without self-citations);</li> <li>Google Scholar citations: 1212</li> <li>Hindex: 20/18/18 (Google Scholar/Scopus/WoS)</li> <li>Scopus Author ID: 52363434400; ORCID: <a href="http://orcid.org/0000-0003-4909-8574">http://orcid.org/0000-0003-4909-8574</a>; Brainmap ID: U-1700-036V-7065</li> </ul>
<b>Society Memberships</b>	<ul style="list-style-type: none"> <li>Romanian Society of Chemistry,</li> <li>Romanian Society of Physics</li> <li>Asociatia pentru energia hidrogenului din Romania</li> </ul>
<b>Editorial member</b>	<ul style="list-style-type: none"> <li>Topic editor of Antioxidants (IF: 7.0) and Separations MDPI (IF: 2,777)</li> <li>member in the editorial board for two international BDI journals: Recent Advancement in Food Science and Nutrition Research and CPQ Nutrition (CPQNN)</li> <li>Review Editor on the Editorial Board of Agro-Food Safety (specialty section of Frontiers in Sustainable Food Systems), <a href="https://loop.frontiersin.org/people/159751/overview">https://loop.frontiersin.org/people/159751/overview</a></li> </ul>
<b>Reviewer for ISI journals</b>	<ul style="list-style-type: none"> <li>Food Chemistry, Journal of Food Analysis and Composition, Applied Science, Frontiers in Sustainable Food Systems, Frontiers in Bioengineering and Biotechnology, Journal of the Science of Food and Agriculture, Sustainability, Food Bioscience, Molecules, Separations, Phytochemical analysis, Food Analytical Methods, Analytical Letters, Food Technology and Biotechnology, Biological Trace Element Research, Science of the Total Environment, Environmental Engineering and Management Journal, European Food Research and Technology, Sky Journal of Food Science.</li> </ul>
<b>Awards</b>	<ul style="list-style-type: none"> <li>24 CNCSIS Awards of the Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI), Romania for the articles published in journals ranking in Web of Knowledge in the top 25% (Q1) and top 50% journals (Q2).</li> <li>10 Awards for Best oral presentation or poster presented at international conferences</li> </ul>

<b>Personal skills and competences</b>	
Mother tongue(s)	▪ Romanian
Other language(s)	▪ English (good knowledge of spoken and written) ▪ French (good knowledge of spoken and written)
Social skills and competences	▪ Good communication and inter-personal skills and ability to work in a team.
Computer skills and competences	▪ MS Office (Word, Excel, PowerPoint), XLSTAT – Statistical Software for Excel, Origin, Internet
Driving licence	B category (≤3500kg, 1+ 8 Seats)

## **Additional informations**

### **Projects**

1. PN-IV - PN 23 15 04. 01 „The cascade valorization of agro-industrial waste of the vegetable biomass type in bioproducts with added value in the circular bioeconomy system, BioVal”, project manager
2. ADER 6.5.2 – „Evaluation of the agrobiological characteristics and oenological capacity of varieties with high nutraceutical value in order to increase the added value of viticultural products and by-products”, project responsible
3. ADER 17.1.2 – „Research on the development of sustainable technologies for obtaining and capitalizing on innovative ingredients and food products for the nutritional balance of the modern consumer's diet”, Key person
4. ADER 6.3.7 – „Applicability measures regarding the investigation of the distribution of organochlorine and organophosphorus contaminants on the soil-plant-vegetable/fruit-finished product chain, following different types of varieties from various areas”, Key person
5. PN-IV – PN 23 15 03 01 „The implementation of integrated isotopic-chemical-nuclear analytical methodologies for the authentication of traditional Romanian food products”, Key person
6. PNRR-III-C9-2022 – I5, Componenta C9. Support for the Private Sector, Research, Development and Innovation, I5. Establishment and operationalization of Competence Centers”- Project “ Improving soil conservation and resilience by boosting biodiversity and the functional safety of organic food products”, Key person – technical expert
7. PN-III-P2-2.1-PED2021-3279, ctr. 704PED/2022 – „Development of sensitive and selective sensors for detection of glyphosate in water samples using the technique of molecular printing integrated with the surface acoustic waves technology”, project responsible from P1
8. PN-III-P2-2.1-PED2021-4281, ctr. 584PED/2022 – „New eco-nano-technologies for the elimination of halogenated organic compounds from wastewater using advanced oxidation and reduction processes and anaerobic biodegradation processes” – Key person
9. POIM - Large Infrastructure Operational Program, Cod My SMIS 139703 “Improving the National Air Quality Assessment and Monitoring System”, contract 385/13.10.2020, Ministry of the Environment –technical expert
10. PN-III-P4-ID-PCE2020-0923, New biosensors and intelligent tools for the ultra-sensitive detection of counterfeiting of olive oils – Key person
11. POCU 51668/09.07.2019 - Work-based learning systems through entrepreneurial scholarships for doctoral and post-doctoral students – Key person
12. NUCLEU Program, project PN 19 11 03 03/2019 – “Advanced techniques for identifying sources of contamination and biochemical reactions in aquatic ecosystems” – Key person
13. NUCLEU Program, project PN 19 11 03 02/2019 – “Research on the variation trends specific to stable isotopes in different tree species: deepening of the fractionation mechanisms and of the chemical processes interconnected on the soil-water-plant chain” - Key person
14. PN-III-P1-1.1-PD-2016-0518, ctr. 45PD/2018, Innovative strategies based on screening techniques coupled with multivariate statistical analysis used for wines authenticity assessment, SCREEN-WINE - project manager
15. NUCLEU Program, project PN 18120302/2018: “Research on the development of advanced analytical methods for investigating organic food products of plant or animal origin” – Key person

16. NUCLEU Program, project PN 18120303/2018 – “Assessment of the impact of wastewater discharges in the middle and lower basin of the Olt river on the Danube water quality, based on the physico-chemical and multi-isotopic imprints (O, H, N, Li, B, Sr)” – Key person
17. PN-III-P2-2.1-PED-2016-1656, ctr. 194PED/2017, Alternative analytical approaches for detecting adulteration of honey with emphasis on its biologically active compounds, SAFE-HONEY – project manager
18. COST intergovernmental framework for European Cooperation in Science and Technology - COST 1403-POSITIVe./2016
19. NUCLEU Program, project PN 16 36 04 01 / 2016 – “Assessing the impact of different ecosystems on stable isotopes and multi-element composition of plants - Research on geo-seasonal variability” – Key person
20. NUCLEU Program, project PN 16 36 04 02 / 2016 – “Advanced research regarding the authentication of the origin of food products for the implementation of innovative methodologies – Case study: fruit based products” – Key person
21. Inter Academy Exchange 2015, Romania – Republic of Moldova, The Institute of Chemistry of the Academy of Sciences of Moldova with the subject "Identification and characterization of biologic active compounds from different fruits and medicinal plants" – project responsible
22. Inter Academy Exchange 2015, Romania – Slovakia, Institute of Forest Ecology, Slovak Academy of Sciences, Dpt. of Molecular Apidology, with the subject “Characterization and authentication of bee products using modern analytical techniques” – project responsible
23. NUCLEU Program, project PN 09 19 01 09 / 2015: „Research on the development of advanced analytical methods for investigating the biologically active compounds from natural products used for the development of functional foods and cosmetics” – project manager
24. Inter Academy Exchange 2015, Romania – Republic of Moldova, The Institute of Chemistry of the Academy of Sciences of Moldova with the subject „Evaluation of ursolic and oleanolic acids content in vegetable sources by modern analytical techniques” – project responsible
25. NUCLEU Program, project PN 09 19 02 08 / 2014: „Research regarding the development of new analytical methods to control contaminants and additives in food” – member of research team
26. NUCLEU Program, project PN 09 19 02 07 / 2013: „Research regarding the development of advanced analytical methods for investigating compositional profile of products with complex matrix” - member of research team
27. NUCLEU Program, project PN 09 19 02 06 / 2013, grant No. 19N/2009 – Add. No. 1/2013 from the Romanian Ministry of Education: „Support researchs on the application of multielement and multi-isotopic investigations to establish of markers to trace the origin of food” - member of research team
28. NUCLEU Program, project PN 09 19 02 05 / 2012: „Research on natural products characterization and authentication based on evaluation of their protein profile” - member of research team
29. NUCLEU Program, project PN 09 19 02 04 / 2012: „Research on the development of new methods of extraction and separation of anthocyanins and anthocyanidins compounds from vegetables, for use as natural dyes in food” - member of research team
30. NUCLEU Program, project PN 09 19 02 01 / 2009: „Research on application of multi-isotopic and multi-element methods in order to define authenticity and geographical classification of Romanian wines” - member of research team
31. NUCLEU Program, project PN 09 19 02 03 / 2009: „Assessing human impact on the environment by investigations of pollutants in air, water, soil and comparison with a protected National Park” - member of research team
32. NUCLEU Program, project PN 06 13 03 01 / 2008: „Developing a complex system of air quality monitoring by determining the levels of oxides of carbon, nitrogen and sulfur” - member of research team
33. PNCD II 32-127 / 2008: “The determination of the mechanism of the penetration of organic and iorganic pollutants in the water destined to the great urban agglomerations in Cluj and Salaj countries” - member of research team
34. PNCD II 52-162 / 2008: „Defining the aromatic profile of wines from indigenous varieties by gas chromatography and isotopic techniques, as authentication element of these products on the European market” - member of research team
35. Sectorial Project 5.2.5 / 2008: „Establishing methods for the determination of counterfeit products in the wine industry” - member of research team
36. NUCLEU Program, project PN 06 06 / 2005 : „Synthesis and natural product for health” - member of research team
37. CEEX 36/2005: „Use of radiolabelled compounds in molecular biology, pharmacology and toxicology studies” - member of research team

## Books/book chapters

1. **Elisabeta-Irina Geană**, Teodora Emilia Coldea\*, Alexandra-Costina Avîrvarei, Elena Mudura , Carmen Rodica Pop, Oana Lelia Pop, Călina Ciont (Nagy), Liana Claudia Salanță , Anamaria Călugăr, Mihaela Mihai, Corina Teodora Ciucure, Cosmin Pompei Dărab, Fruit pomaces as valuable by-products of wine and cider industries, Agricultural Waste: Environmental Impact, Useful Metabolites and Energy Production, Springer Singapore, ISSN 2352-474X, E-ISSN 2352-4758, 18 February 2023, <https://link.springer.com/book/9789811987731>

## Patents

1. Irina Gheorghe, Viorica Maria Corbu, Sorin Avramescu, Ioana Cristina Marinaș, **Elisabeta Irina Geană**, Mariana Carmen Chifiriuc, A new ecological solution based on allium sativum extract to combat the biodeteriogenic agents of cultural heritage objects from Romania, patent application A/00163 from 08.04.2021.

## Articles

### Scientific papers published in ISI:

1. Ioana C. Marinasa, Gratiela Gradisteanu Pircalabioru, Eliza Oprea\*, **Elisabeta-Irina Geana**, Irina Zgura, Cosmin Romanitan, Elena Matei, Marian Angheloiu, Anca C. Nicoara, Mihaela Georgescu, Mariana C. Chifiriuc, Physico-chemical and Pro-wound Healing Properties of Microporous Cellulosic Sponge from Gleditsia triacanthos Pods Functionalized with Phytolacca americana Fruit Extract, Cellulose, accepted.
2. **Elisabeta-Irina Geana\***, Corina Teodora Ciucure, Radu Tamaian\*, Ioana Cristina Marinaș\*, Diana Mădălina Gaboreanu, Miruna Stan and Carmen Lidia Chitescu, Antioxidant and Wound Healing Bioactive Potential of Extracts Obtained from Bark and Needles of Softwood Species, Antioxidants 2023, 12, 1383. <https://doi.org/10.3390/antiox12071383>
3. Corina Teodora Ciucure, **Elisabeta-Irina Geana\***, Maxim Arseni, Roxana Elena Ionete, Status of different anthropogenic organic pollutants accumulated in sediments from Olt River Basin, Romania: From distribution and sources to risk assessment, Science of The Total Environment, Volume 886, 15 August 2023, 163967, <https://doi.org/10.1016/j.scitotenv.2023.163967>
4. Petronela Anca Onache, Alina Florea, **Elisabeta-Irina Geana\***, Corina Teodora Ciucure, Roxana Elena Ionete, Dorin Ioan Sumedrea and Ovidiu Tita, Assessment of Bioactive Phenolic Compounds in Musts and the Corresponding Wines of White and Red Grape Varieties, Appl. Sci. 2023, 13, 5722. <https://doi.org/10.3390/app13095722>
5. **Elisabeta-Irina Geana**, Corina Teodora Ciucure, Irina Mirela Apetrei, Maria Lisa Clodoveo, Constantin Apetrei, Discrimination of olive oil and extra-virgin olive oil from other vegetable oils by targeted and untargeted HRMS profiling of phenolic and triterpenic compounds combined with chemometrics, International Journal of Molecular Sciences, 2023, 24(6), 5292; <https://doi.org/10.3390/ijms24065292>, MDPI, IF: 6.208, Q1
6. Victoria Artem, Arina Oana Antoce, **Elisabeta Irina Geana**, Aurora Ranca, Effect of foliar treatment with chitosan on phenolic composition of 'Fetească neagră' grapes and wines, Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 51(1):12920, IF: 1,249, Q3
7. Lidia Lungu, Svetlana Blaja, Caleria Cucicova, Alexandru Ciocarlan, Alic Barba, Veaceslav Kulcički, Sergiu Shova, Nicoleta Vornicu, **Elisabeta-Irina Geana**, Ionel I. Mangalagiu and Aculina Aricu, Synthesis and Antimicrobial Activity Evaluation of Homodrimane Sesquiterpenoids with a Benzimidazole Unit, Molecules 2023, 28, 933. <https://doi.org/10.3390/molecules28030933>, IF: 4,927, Q2
8. Mădălina Maria Nichitoi, Ana Maria Josceanu, Raluca Daniela Isopescu, Gabriela Olimpia Isopencu, **Elisabeta-Irina Geana**, Corina Teodora Ciucure, Vasile Lavric, Do ultrasonic field effects upon the polyphenolics profile of propolis extracts improve their antioxidant and antimicrobial activity?, Ultrasonics Sonochemistry, Volume 92, January 2023, 106274, IF: 9.336, Top Q1
9. Corina Teodora Ciucure, Elisabeta-Irina Geană\*, Carmen Lidia Chitescu, Silviu Laurentiu Badea, Roxana Elena Ionete, Distribution, sources and ecological risk assessment of polycyclic aromatic hydrocarbons in waters and sediments from Olt River dam reservoirs in Romania, Chemosphere, Volume 311, Part 2, January 2023, 137024, <https://doi.org/10.1016/j.chemosphere.2022.137024>
10. Marilena-Viorica Hovanet,, Emma Adriana Ozon, Elena Moros, Oana Cristina Seremet, Eliza Oprea, **Elisabeta-Irina Geană**, Adriana Iuliana Anghel, Carmellina Bădiceanu, Ligia Elena Dutu, Cristina Silvia Stoicescu, Eugenia Nagoda, Robert Ancuceanu, Wound Healing and Anti-Inflammatory Effects of a Newly Developed Ointment Containing Jujube Leaves Extract, Life 2022, 12(12), 1947; pag. 1-21, <https://doi.org/10.3390/life12121947>
11. Petronela Anca Oneche, Elisabeta-Irina Geană\*, Corina Teodora Ciucure, Alina Florea\*, Dorin Ioan Sumedrea, Roxana Elena Ionete, Ovidiu Tița, Bioactive phytochemical composition of grape pomace resulted from different white and red grape cultivars, Separations 2022, accepted
12. Viorica Maria Corbu, Irina Gheorghe-Barbu, Ioana Cristina Marinaș, Sorin Marius Avramescu, Ionut Pecete ,**Elisabeta Irina Geană** and Mariana Carmen Chifiriuc, Eco-Friendly Solution Based on Rosmarinus officinalis Hydro-Alcoholic Extract to Prevent Biodeterioration of Cultural Heritage Objects and Buildings, Int. J. Mol. Sci. 2022, 23(19), 11463; <https://doi.org/10.3390/ijms231911463>

13. Alina Perisoara, Ioana Cristina Marinas, Elisabeta Irina Geana, Mariana Constantin, Marian Angheloiu, Lucia Pirvu and Stelica Cristea, Phytostimulation and Synergistic Antipathogenic Effect of *Tagetes erecta* Extract in Presence of Rhizobacteria, *Horticulturae* 2022, 8(9), 779; <https://doi.org/10.3390/horticulturae8090779>
14. Lidia Lungu, Caleria Cucicova, Svetlana Blaja, Alexandru Ciocarlan, Ion Dragalin, Alic Barba, Nicoleta Vornicu, Elisabeta-Irina Geana, Ionel I. Mangalagiu and Aculina Aricu, Synthesis of Homodrimane Sesquiterpenoids Bearing 1,3-Benzothiazole Unit and Their Antimicrobial Activity Evaluation, *Molecules* 2022, 27(16), 5082; <https://doi.org/10.3390/molecules27165082>
15. Cornelia-Ioana Ilie, Eliza Oprea, Elisabeta-Irina Geana, Angela Spoiala, Mihaela Buleandra, Gratiela Gradisteanu Pircalabioru, Irinel Adriana Badea, Denisa Ficai, Ecaterina Andronescu, Anton Ficai and Lia-Mara Ditu, Bee Pollen Extracts: Chemical Composition, Antioxidant Properties, and Effect on the Growth of Selected Probiotic and Pathogenic Bacteria, *Antioxidants* 2022, 11(5), 959; <https://doi.org/10.3390/antiox11050959>
16. Corina Teodora Ciucure, Elisabeta-Irina Geana\*, Claudia Sandru, Ovidiu Tita and Mihai Botu, Phytochemical and Nutritional Profile Composition in Fruits of Different Sweet Chestnut (*Castanea sativa* Mill.) Cultivars Grown in Romania, *Separations* 2022, 9(3), 66; <https://doi.org/10.3390/separations9030066>
17. Mădălina Maria Nichitoi, Ana Maria Josceanu, Raluca Daniela Isopescu, Gabriela Olimpia Isopencu, Elisabeta-Irina Geana, Corina Teodora Ciucure, Vasile Lavric, Polyphenolics profile effects upon the antioxidant and antimicrobial activity of propolis extracts, *Scientific Reports* (2021) 11:20113, <https://www.nature.com/articles/s41598-021-97130-9>.
18. Alexandru Ciocarlan, Lucian Lupascu, Aculina Aricu, Ion Dragalin, Violeta Popescu, Elisabeta-Irina Geana, Roxana Elena Ionete, Nicoleta Vornicu, Octavian G. Duliu, Gergana Hristozova, Inga Zinicovscaia, Chemical Composition and Assessment of Antimicrobial Activity of Lavender Essential Oil and Some By-Products, *Plants* 2021, 10(9), 1829; <https://doi.org/10.3390/plants10091829>
19. Viorica Maria Corbu, Irina Gheorghe, Ioana Cristina Marinaș, Elisabeta Irina Geană, Maria Iasmina Moza, Ortansa Csutak, Mariana Carmen Chifiriuc, Demonstration of *Allium sativum* Extract Inhibitory Effect on Biodeteriogenic Microbial Strain Growth, Biofilm Development, and Enzymatic and Organic Acid Production, *Molecules* 2021, 26(23), 7195; <https://doi.org/10.3390/molecules26237195>
20. Carmen Lidia Chițescu, Antoaneta Ene, Elisabeta-Irina Geana, Aida Mihaela Vasile, Corina Teodora Ciucure, Emerging and Persistent Pollutants in the Aquatic Ecosystems of the Lower Danube Basin and North West Black Sea Region—A Review, *Appl. Sci.* 2021, 11(20), 9721; <https://doi.org/10.3390/app11209721>
21. Ioana Cristina Marinaș, Eliza Oprea, Elisabeta-Irina Geană, Cristina Mihaela Luntraru, Cerasela Elena Gird, Mariana-Carmen Chifiriuc, Chemical composition, antimicrobial and antioxidant activity of *Phytolacca Americana* L. fruits and leaves extracts, *FARMACIA*, 2021, Vol. 69, 5, 883-889,
22. Victoria Artem, Arina Oana Antocea, Elisabeta-Irina Geana, Roxana Elena Ionete, Study of the impact of vine cultivation technology on the Feteasca Neagra wine phenolic composition and antioxidant properties, *J. Food Sci. Technol.*, <https://doi.org/10.1007/s13197-021-05182-6>
23. Victoria Artem, Arina O. Antocea, Elisabeta I. Geana, Aurora Ranca, Effect of grape yield and maceration time on phenolic composition of Feteasca Neagra organic wine, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, volume 49, Issue 2, Article number 12345, DOI: 10.15835/nbha49212345,
24. Elena Roxana Chiriac, Carmen Lidia Chițescu\*, Elisabeta-Irina Geană, Cerasela Elena Gird, Radu Petre Socoteanu and Rica Boscencu, Advanced Analytical Approaches for the Analysis of Polyphenols in Plants Matrices—A Review, *Separations* 2021, 8(5), 65; <https://doi.org/10.3390/separations8050065>
25. Elisabeta-Irina Geană, Corina Teodora Ciucure, Roxana Elena Ionete, Alexandru Ciocârlan, Aculina Aricu, Anton Ficai and Ecaterina Andronescu, Profiling of Phenolic Compounds and Triterpene Acids of Twelve Apple (*Malus domestica* Borkh.) Cultivars, *Foods* 2021, 10, 267. <https://doi.org/10.3390/foods10020267>
26. Ioana Cristina Marinas, Eliza Oprea, Elisabeta-Irina Geana, Oana Tutunaru, Gratiela Gradisteanu Pircalabioru, Irina Zgura and Mariana Carmen Chifiriuc, Valorization of *Gleditsia triacanthos* Invasive Plant Cellulose Microfibers and Phenolic Compounds for Obtaining Multi-Functional Wound Dressings with Antimicrobial and Antioxidant Properties, *Int. J. Mol. Sci.* 2021, 22, 33. <https://dx.doi.org/10.3390/ijms22010033>
27. Elisabeta-Irina Geană, Victoria Artem, Constantin Apetrei, Discrimination and classification of wines based on polypyrrole modified screen-printed carbon electrodes coupled with multivariate data analysis, *Journal of Food Composition and Analysis* Volume 96, March 2021, 103704
28. Elena Roxana Chiriac, Carmen Lidia Chitescu, Claudia Sandru, Elisabeta-Irina Geană, Mariana Lupoae, Michaela Dobre, Daniela Borda, Cerasela Elena Gird and Rica Boscencu, Comparative Study of the Bioactive Properties and Elemental Composition of Red Clover (*Trifolium pratense*) and Alfalfa (*Medicago sativa*) Sprouts during Germination, *Appl. Sci.* 2020, 10, 7249; doi:10.3390/app10207249
29. Elisabeta-Irina Geană, Corina Teodora Ciucure, Victoria Artem, Constantin Apetrei, Wine varietal discrimination and classification using a voltammetric sensor array based on modified screen-printed electrodes in conjunction with chemometric analysis, *Microchemical Journal*, Volume 159, December 2020, 105451

30. Elisabeta-Irina Geană, Corina Teodora Ciucure, Constantin Apetrei, Electrochemical Sensors Coupled with Multivariate Statistical Analysis as Screening Tools for Wine Authentication Issues: A Review, *Chemosensors* 2020, 8, 59; doi:10.3390/chemosensors8030059
31. Silviu-Laurentiu Badea, Irina Geana, Violeta Niculescu, Ionete Roxana, Recent progresses in analytical GC and LC mass spectrometric based-methods for the detection of emerging chlorinated and brominated contaminants and their transformation products in aquatic environment, *Science of The Total Environment* Volume 722, 20 June 2020, 137914, DOI: 10.1016/j.scitotenv.2020.137914
32. Elena Roxana Chiriac, Chitescu Carmen Lidia, Daniela Borda, Rica Boscencu, Geana Irina, Comparison of the Polyphenolic Profile of *Medicago sativa* L. and *Trifolium pratense* L. Sprouts in Different Germination Stages Using the UHPLC-Q Exactive Hybrid Quadrupole Orbitrap High-Resolution Mass Spectrometry, May 2020 *Molecules* 25(10):2321, DOI: 10.3390/molecules25102321
33. Irina Geana, Corina Ciucure, Constantin Apetrei, Artem Victoria, Application of Spectroscopic UV-Vis and FT-IR Screening Techniques Coupled with Multivariate Statistical Analysis for Red Wine Authentication: Varietal and Vintage Year Discrimination, November 2019 *Molecules* 24(22):4166, DOI: 10.3390/molecules24224166
34. Elisabeta-Irina Geana, Corina Teodora Ciucure, Establishing authenticity of honey via comprehensive Romanian honey analysis, *Food Chemistry*, Volume 306, 15 February 2020, 125595, <https://doi.org/10.1016/j.foodchem.2019.125595>
35. Elisabeta-Irina Geana, Corina Teodora Ciucure, Diana Costinel, Roxana Elena Ionete, Evaluation of honey in terms of quality and authenticity based on the general physicochemical pattern, major sugar composition and  $\delta^{13}\text{C}$  signature, *Food Control* Volume 109, March 2020, 106919, <https://doi.org/10.1016/j.foodcont.2019.106919>
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## **Awords**

### **CNCSIS awards**

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#### **Best presentation/poster award**

1. "Voltammetric sensors in the analysis of wine redox-active compounds", Elisabeta-Irina Geană\*, Constantin Apetrei, 7th Edition of Scientific Conference of Doctoral Schools, SCDS-UDJG, Perspectives and challenges in doctoral research, 13-14 iunie 2019, Universitatea "Dunarea de Jos", Galati, oral presentation
2. "Electrochemical biosensing of phenolic compounds from wines", Elisabeta-Irina Geana, Corina Teodora Ciucure, Constantin Apetrei, Victoria Artem, 18th International Conference "Life sciences for sustainable development", 26-28.09.2019, Cluj Napoca, Romania, poster
3. "Comparison of sugar composition between pure and adulterated honeys with different sugar syrups", autori: Corina Teodora Ciucure, Elisabeta-Irina Geană\*, 4th International Conference on Analytical Chemistry: Analytical Chemistry for a Better Life, RO-ICAC'2018, 01-03 septembrie 2018.
4. "Isotopes used in comparing indigenous and international walnut (*Juglans regia* L.) varieties", autori, R. Popescu, D. Costinel, I. Geana, O. Botoran, R.E. Ionete, Y.F.J. 'Alabedallat, M. Botu prezentata la conferinta ICAEFBS 2016 "18th International Conference on Agricultural Engineering, Food and Beverage Systems", 01-02 Decembrie 2016, Amsterdam, Olanda
5. „Assessment of fruit juice authenticity - A chemometric approach based on sugars and organic acids fingerprints ", autori: Geana Elisabeta-Irina, Botoran Oana-Romina, Ionete Roxana-Elena, 3rd European Food Safety and Standards Conference, 24-25 octombrie 2016, Valencia, Spania, pentru lucrarea
6. „Characterization and classification of apple cultivars based on triterpenoids acids, phenolic constituents and bioactive properties", autori: Geana Elisabeta-Irina, Alexandru Ciocarlan, Food Technology 2016, 27-29 octombrie 2016, Rome, Italy.
7. „Multi-compound isotope profiling - an approach to differentiate the varietal origin and harvest year of wines", autori: Botoran Oana-Romina, Costinel Diana, Popescu Raluca, Geana Irina-Elisabeta, Ionete Roxana-Elena prezentata la 3rd European Food Safety and Standards Conference, Valencia, Spania, 24 – 25 Octombrie 2016
8. "The use of isotopic and multi-element pattern in the soil-plant system as tool for fruit juices authentication in terms of geographical origin", autori Oana-Romina Dinca, Roxana Elena Ionete, Diana Costinel, Raluca Popescu, Geana Elisabeta-Irina, Gabriel-Lucian Radu, prezentata la A 43-a Annual Meeting of the European Society for New Methods in Agricultural Research, 03-06.09.2014, Bolzano, Italia
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**Date:**

01.09.2023

*Signature*

