



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Lavinia Diana TĂTARU**

Address(es) [REDACTED]
National University of Science and Technology POLITEHNICA Bucharest,
Splaiul Independentei no. 313, sector 6, Bucharest, ROMANIA
University Centre of Pitești, Targu din Vale Street, no.1, Pitesti, Arges Country

Telephone(s) + 40 -348 453 262 Mobile: + 40 - [REDACTED]

Fax(es) + 40 -348 453 260

E-mail lavdiana@yahoo.com

Nationality Romanian

Date of birth [REDACTED]

Gender female

Work experience

Dates	September 2023 onwards
Occupation or position held	University lecturer
Main activities and responsibilities	teaching the courses and laboratory work for the following academic disciplines: Analytical Chemistry, General Chemistry; scientific research of soil and plant chemistry
Name and address of employer	Faculty of Science, Physical Education and Informatics, National University of Science and Technology POLITEHNICA Bucharest, Splaiul Independentei no. 313, sector 6, Bucharest, ROMANIA
Type of business or sector	Education & Research

Dates	September 1999 onwards
Occupation or position held	University lecturer
Main activities and responsibilities	teaching the courses and laboratory work for the following academic disciplines: Analytical Chemistry, General Chemistry; scientific research of soil and plant chemistry
Name and address of employer	Faculty of Science, Physical Education and Informatics, University of Pitesti, Targu din Vale Street, no.1, Pitesti, Arges Country, Romania
Type of business or sector	Education & Research

Dates	April 2012-April 2016,
Occupation or position held	Vicedean
Main activities and responsibilities	coordinating the activities required to meet the quality standards in higher education, monitor and advise on the performance of the quality management system, produce data and report on performance, measuring against set standards.
Name and address of employer	Faculty of Science, University of Pitesti, Targu din Vale Street, no.1, Pitesti, Arges Country, Romania
Type of business or sector	Management in higher education

Dates	1992-1999
Occupation or position held	Professor's assistant
Main activities and responsibilities	laboratory work for the following academic disciplines: Analytical Chemistry, General Chemistry, Biochemistry; research of soil chemistry
Name and address of employer	Faculty of Science, University of Pitesti, Targu din Vale Street, no.1, Pitesti, Arges Country, Romania
Type of business or sector	Education & Research

Dates	1991-1992
Occupation or position held	High school teacher
Main activities and responsibilities	Teaching chemistry
Name and address of employer	High School no.2, Pitesti, Stadionului Street, 110227, Pitesti, Arges Country, Romania
Type of business or sector	Education

Education and training

Dates	June 1996- April 2003
Title of qualification awarded	PhD. Thesis Agriculture chemistry
Principal subjects/ occupational skills covered	studies on chemistry of nutrient substrates used for horticultural plant growth
Name and type of organisation providing education and training	University of Agronomic Science and Veterinary Medicine Bucharest, Romania
Level in national or international classification	ISCED 6

Dates	june1986-1991
Title of qualification awarded	Bachelor of Science
Principal subjects/ occupational skills covered	Analytical chemistry, Physical chemistry
Name and type of organisation providing education and training	University of Bucharest, Faculty of Chemistry
Level in national or international classification	ISCED 5

Dates	November 2016
Title of qualification awarded	Multivariate Data Analysis – Level 1
Principal subjects/occupational skills covered	Multivariate data modeling, Multivariate regression: MLR, PCR, PLS, Principal Component Analysis (PCA), Relevant data collection, Pretreatment and scaling Detecting and dealing with Outliers Calibration, Validation, Prediction Practical use of Advanced Multivariate Data Analysis tool: The Unscrambler X
Name and type of organisation providing education and training	CAMO Software AS. Nedre Vollgate 8, N-0158, Oslo, NORWAY Tel: (47) 223 963 00 Fax: (47) 223 963 22 www.camo.com
Dates	May 2013
Title of qualification awarded	Internal auditor in Quality Management System
Principal subjects/occupational skills covered	Basic of performing internal audits of QMS based on the process approach. Quality assurance and internal control.
Name and type of organisation providing education and training	Romanian Movement for quality
Personal skills and competences	
Mother tongue(s)	Romanian
Other language(s)	
Self-assessment	
<i>European level (*)</i>	
English	
French	
Social skills and competences	Team player, expressing a fair-play, problem-solving attitude, responsibility, hard working and organized person, communication skills.
Organisational skills and competences	Good organizational and team-leading skills gained as vice dean of Faculty of Science
Computer skills and competences	Microsoft Office (Word, Excel, Power Point), ISIS DRAW, CHEM DRAW,
Other skills and competences	Photography, traveling, reading, sport (ski)
Driving licence	B category
Additional information	Professional Affiliation: Romanian Chemistry Society (SChR) – 2005 onwards
Annexes	List of relevant works

List of relevant works

phD Thesis

Tataru Lavinia, “Methodological research on the chemistry of nutritive substrates used for horticultural crops”, 2003.

Books

Tataru Lavinia, General chemistry for biologists, Editura UPit, 2023, ISBN 978-606-560-770-5

Tataru Lavinia *Qualitative analytical Chemistry. Volumetry*, Ed. UPIT, 2021, 180 p, e-ISBN: 978-606-560-711-8,

Tataru Lavinia, AgroChemistry for the horticulturists, Ed.Upit, 2019, e-ISBN: 978-606-560-642-5

Tataru Lavinia, Analytical Chemistry- Aqueous Solutions Equilibria, Ed.UPit 2010, 300 p, ISBN 978-973-690-954-2

Tataru Lavinia, Topala Carmen, General Chemistry, Ed. UPit 2004, 220 p, ISBN: 973-690-262-5

ISI Thomson Reuters and ISI proceedings papers

Șuțan, N. A., Matei, A. N., Oprea, E., Tecuceanu, V., **Tătaru, L. D.**, Moga, S. G., Manolescu, D. S., & Topală, C. M. (2020). Chemical composition, antioxidant and cytogenotoxic effects of *Ligularia sibirica* (L.) Cass. roots and rhizomes extracts. *Caryologia. International Journal of Cytology, Cytosystematics and Cytogenetics*, 73(1). <https://doi.org/10.13128/caryologia-116>. ISSN 0008-7114

Topala, C., **Tataru L.**, 2019, ATR-FTIR Spectroscopy Coupled with Chemical and Chemometric Analysis to Distinguish Between Some Sweet Wines, *Revista de Chimie (Bucharest)*, 70(7), p.2355-2361, http://www.revistadechimie.ro/article_ro.asp?ID=7339, WOS:000485843500012

Guță, I.-C., Buciumeanu, E.-C., **Tătaru, L.D.**, Oprescu, B. and Topală, C.M. (2019). New approach of electrotherapy for grapevine virus elimination. *Acta Hort.* 1242, p. 697-702, DOI: 10.17660 / ActaHortic. 2019.1242.103, https://www.actahort.org/books/1242/1242_103.htm

Topala, Carmen Mihaela; **Tataru, Lavinia Diana**, 2018, Rapid Method for the Discrimination of Romanian Wines Based on Mid-Infrared Spectroscopy and Chemometrics, *Revista de Chimie*, 69(2), p.469-473, http://www.revistadechimie.ro/article_eng.asp?ID=6129, WOS: 000427327700038

Carmen Mihaela Topala, **Lavinia Diana Tataru**, Elena Cocuta Buciumeanu and Ionela Catalina Guta, 2017, FTIR Spectra of grapevines (*Vitis vinifera* L.) in the presence of virus infections, *Acta Hort.* 1188, p. 313-318, ISHS 2017. DOI 10.17660/ActaHortic.2017.1188.41 Proc. X Int. Symp. on Grapevine Physiology and Biotechnology Eds.: M. Pezzotti et al., 313-318 2017, www.ishs.org/ishs-article/1188_41

Ionela Catalina Guta, Elena Cocuta Buciumeanu, **Lavinia Diana Tataru**, Carmen Mihaela Topala, 2017, Regeneration of grapevine virus-free plants by in vitro chemotherapy, *Acta Hort.* 1188, p. 319-322. ISHS 2017. DOI 10.17660/ActaHortic.2017.1188.41 Proc. X Int. Symp. on Grapevine Physiology and Biotechnology Eds.: M. Pezzotti et al., 319-322, 2017, https://www.ishs.org/ishs-article/1188_42

Ionela-Catalina Guta, Elena-Cocuta Buciumeanu, Carmen Mihaela Topala and **Lavinia Diana Tataru**, The use of in vitro chemotherapy for grapevine virus elimination, 2017 *Acta Hort. (ISHS)* 1155, p:425-430, DOI: 10.17660/ActaHortic.2017.1155.63 VI International Symposium on Production and Establishment of Micropropagated Plants, Edited by: Beruto, M; Ozudogru, EA, Published: 2017, ISBN: 978-94-62611-51-1, ISSN: 0567-7572, eISSN: 2406-6168 Document Type: Proceedings Paper, Conference: 6th International Symposium on Production and Establishment of Micropropagated Plants, Sanremo, ITALY, APR 19, 2015, 2017, www.ishs.org/ishs-article/1155_63 WOS:000431841400063

Carmen Mihaela Topala, **Lavinia Diana Tataru**, 2016, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, *Revista de Chimie (Bucharest)*, 57 (5), www.revistadechimie.ro/pdf/TOPALA%20C%20S%2016.pdf, WOS:000378158100005

Carmen Mihaela Topala, **Lavinia Diana Tataru**, „Infrared Spectra Of Green Arabica Coffee Extraction Using Supercritical Carbon Dioxide And Soxhlet Technique”, *Revista de Chimie (Bucuresti)*, 66 (8), 2015 www.revistadechimie.ro/pdf/TOPALA%20C.pdf%20S%2015.pdf, WOS:000361124600009

B.Oprescu, C. Topala, **L. Tataru**, S. Anghel , Liquid Crystals. 8. The Experimental Study On The Liquid Crystal Phase Transition Of Some Thermotrope Mesogenes Mixtures By Light Scattering Method, *Revista de Chimie (Bucuresti)*, 54 (7), 2003. http://www.revistadechimie.ro/article_eng.asp?ID=174, WOS:000185562900009

IDB indexed papers

Tătaru, L., Ducu, C., Negrea, D., Moga, S. (2019). STUDIES ON THE ANTIOXIDANT POTENTIAL OF ARONIA MELANOCARPA EXTRACTS. *Current Trends in Natural Sciences*, 8(16), 103-108. ISSN (online) 2284-953X, ISSN (CD-ROM) 2284-9521, ISSN-L 2284-9521, <https://www.natsci.upit.ro/media/1836/14tataru-et-al.pdf>

Carmen Mihaela TOPALĂ, **Lavinia Diana TĂTARU**, Cătălin DUCU, *ATR-FTIR Spectra Fingerprinting Of Medicinal Herbs Extracts Prepared Using Microwave Extraction*, *Arabian Journal of Medicinal & Aromatic Plants*, AJMAP V3 N (1) 1, ISSN 2458-5920, 2016, <https://revues.imist.ma/index.php?journal=AJMAP&page=article&op=view&path%5B%5D=7985>

Carmen Mihaela Topala, **Lavinia Diana Tataru**, Ionela Catalina Guta, Elena Cocuta Buciumeanu, "ATR-FTIR Vibrational Spectroscopy as a Tool to Investigate the Grapevine (*Vitis Vinifera* L.) Sanitary Status, Agriculture & Food, ISSN 1314-8591, Volume 3, 2015, 218-225, <http://www.scientific-publications.net/en/article/1000674/>

Topala C., Oprescu B., **Tataru L.***, FT/IR Study on Changes induced by Chemotherapy and Electrotherapy Application in Grapevine, *Analele Universitatii din Craiova, seria Biologie, Horticultura, Tehnologia prelucrării produselor agricole*, Ingineria mediului, ISSN 1453-1275, VIII (LIV), 333-338, <http://www.anucraiova.3x.ro/>

Guta I.C., Buciumeanu E.C., Oprescu B., **Tataru L.**, Effect of direct electric current on virus elimination in grapevine, *Proceedings of the 4th International Symposium New Researches in Biotechnology Symposium BTH 2011* (ISSN 124-7774), Bucharest, 41-50, http://simpbth.usamv.ro/Rezumate_2011.pdf

Tataru L., Oprescu B., The Impact of Some Nourishing Substrates and their Physical and Chemical Qualities on Growth Parameters of Grapevine, (B+), *Scientific papers. Horticulture Serial*. 2008, year LI-vol.51, Iasi, 835-840 http://www.uaiasi.ro/revista_horti/files/arhiva/VOL-51-2008.pdf

Tataru L., Oprescu B., D.Giosanu, Some Aspects Regarding the Chemical Behavior of Some Nutritive Substrates Used for Grapevine Growing in a Closed System, (B) *Scientific papers, USAMVB, Horticulture*, 2008, Serial B-LI, ISSN 1222-5312, 534-539 [http://horticulturejournal.usamv.ro/pdf/7.%20Lucrari%20stiintifice,%20Seria%20B,%20Horticultura,%20Vol%20LI,%202008%20\(CD-ROM\).pdf](http://horticulturejournal.usamv.ro/pdf/7.%20Lucrari%20stiintifice,%20Seria%20B,%20Horticultura,%20Vol%20LI,%202008%20(CD-ROM).pdf)

M. Fleancu, D.Giosanu, **Tataru L.**, The Geotropically Modifications of mustard Plantlets Due to the Phytochrome reversibility, (B) *Scientific papers, USAMVB, Horticulture, Serial B-LI*, ISSN 1222-5312, 562-565, 2008 [http://horticulturejournal.usamv.ro/pdf/7.%20Lucrari%20stiintifice,%20Seria%20B,%20Horticultura,%20Vol%20LI,%202008%20\(CD-ROM\).pdf](http://horticulturejournal.usamv.ro/pdf/7.%20Lucrari%20stiintifice,%20Seria%20B,%20Horticultura,%20Vol%20LI,%202008%20(CD-ROM).pdf)

International Conferences

Istrate Adina, **Lavinia Tataru**, Quality indicators of some industrial waters discharge into the sewerage system of the Costesti city, *Chemistry and Development Symposium, Pitesti*, may 2021, proceedings in *Scientific Bulletin, Chemistry and Physics Series*, No. 1/2021, 2021.

Matei Diana, **Lavinia Tataru**, Antioxidant activity in hydroalcoholic extracts of *Satureja hortensis* L, *Chemistry and Development Symposium, Pitesti*, may 2022, proceedings in *Scientific Bulletin, Chemistry and Physics Series*, No. 1/2022, 2022.

Istrate Adina, **Lavinia Tataru**, Comparative analysis of some quality indicators in wastewater, *Chemistry and Development Symposium, Pitesti*, may 2022, proceedings in *Scientific Bulletin, Chemistry and Physics Series*, No. 1/2023, 2022.

Carmen Mihaela Topala, **Lavinia Diana Tataru**, Elena Cocuta Buciumeanu and Ionela Catalina Guta "FTIR Spectra of grapevines (*Vitis vinifera* L.) in the presence of virus infections", X INTERNATIONAL SYMPOSIUM ON GRAPEVINE PHYSIOLOGY AND BIOTECHNOLOGY, 13th-18th June, 2016, Verona, p.222

Topala Carmen Mihaela , **Tataru Lavinia Diana**, Ducu Catalin, "ATR-FTIR Spectra of Medicinal Herbs Using Microwave Extraction", 6th International Congress of Aromatic and Medicinal Plants (CIPAM), 29th May-1st June, 2016, Coimbra, Portugal.

Carmen Mihaela Topala and **Lavinia Diana Tataru**, “ATR-FTIR Study of Thyme Oils Extracted by Supercritical Carbon Dioxide, 19th Romanian International Conference on Chemistry and Chemical Engineering (RICCE 19), 2-5 september 2015, Sibiu, Romania.

Tataru L., Oprescu B., Physical and Chemical Properties of Some Nutritive Substrates Based on Grape Marc Compost, Sixth Int.Conference of the Chemical Societies of South Eastern European Countries, 10-14 Sept 2008, Sofia, p334,

C. Topala, B. Oprescu, I. Iosub, **L. Tataru**, Stability of the Stationary State of Biological Cells in generating of Dissociable Compounds, Functional of organic materials for micro and nano bio-sensing systems, E-MRS, Strasbourg, 31 mai 2007

C. Topală, I. Iosub, B. Oprescu., **L. Tataru**, Fluorophenylcholesteryl Carbamates In An Electrical Field, International Conference of the Chemical Societies of the South-East European Countries, ICOSECS 5, 10-14 Sept. 2006 Ohrid OCH-59

C. Topala, B. Oprescu, **L. Tataru**, Study of Sterol Mesogens by Dilatometry, XXIX Chem. Conference, Călimănești-Căciulata, oct. 2006, 82-83, ISBN-13-978-750-049-6

L. Tătaru, C. Topală, The Chemical Behavior To Some Nourishing Substrates Used In An Ecological Agriculture, International Conference “Agricultural and Food Sciences, Processes and Technologies”. Sibiu, 12-13 May 2005

B. Oprescu, C. Topală, **L. Tătaru**, “Sodium Laurate In An Electrical Field” Annual Scientific Conference, University of Bucharest, Faculty of Physics, 27-28 mai 2005

B. Oprescu, C. Topală, **L. Tătaru** “Behavior of Cedar Oil In An Electrical Field”, 6th International Balkan on Applied Physics, 5-7 iulie 2005, S4 P07

B. Oprescu, C. Topală, **L. Tătaru**, “Temperature dependence of tension at liquid crystal-water interface”, 14th National Conference on Physics, Bucharest, 13-17 September 2005, p.68

B. Oprescu, C. Topala, **L.Tataru**, “Two Channels Of Self-Organization Of Ionized Gaseous Media” The 12th International ICSI Conference Progress in Cryogenics and Isotopes Separation, Căciulata, October 2005, Proceedings p. 96-100

C. Topală, B. Oprescu, **L. Tătaru**, G. Iacobescu, “Sitosteryl Mesogens In An Electrical Field”, National Conference of Physics, CNF-2004, 9-11 September 2004, p.74

C. Topala, B. Oprescu, **L. Tataru**, Behavior of Cholesteric Esters in an Electric Field, National Conference of Chemistry, Calimanesti-Caciulata, 5-11 October, 2004, Abstracts, P.S.I. 83, p.179

Research Projects – member of the research team

1. *Increasing the institutional capacity of bioeconomic research for the innovative exploitation of the local plant resources to obtain horticultural products with high added value (BIOHORTINOV)*, Code: PN-III-P1-1.2-PCCDI2017-0332 C, Contractor: University of Pitesti, director Soare Cristina Liliana, *Component Project no.4: Innovative technologies for advanced processing of local plant resources*, manager Pr 4, CS II dr. Cătălin Marian DUCU, **2018-2020**;
2. *Increasing the institutional capacity of research - development - innovation in the field of ecological fruit growing (ECOTEHNOPOM)*, Code: PN-III-P1-1.2-PCCDI-2017-0662, Contract no.:12PCCDI /2018; Contractor: Institute of Development and Research for Fruit-growing Pitești-Mărcăneni, director Mariana Butac, *Component Project no.3- Development of ecological products for nutrition and phytosanitary protection of fruit species –*, manager partner 7, CS II dr. Cătălin Marian DUCU, **2018-2020**;
3. *Advanced materials and laser / plasma processing technologies for energy and depollution: increasing the applicative potential and scientific interconnection in the field of eco-nanotechnologies (MALASENT)*”, Code: PN-III-P1- 1.2-PCCDI-2017-0755, Contract no. 46PCCDI/2018, Contractor National Research Institute for Laser, Plasma and Radiation Physics - INFLPR RA , director Nicu Doinel Scarisoreanu, *project component 2. Obtaining nanomaterials by laser / plasma and conventional (thermal, chemical) techniques for catalytic reduction of gaseous pollutants released by internal combustion engines*, manager project 2 , University of Pitesti - CS II dr. Cătălin Marian DUCU, **2018-2020**
4. *Integrated development project for advanced medical treatment technologies (TERAMED)*, Code: PN-III-P1-1.2-PCCDI-2017-0728, contract no. 63PCCDI/2018, contractor: National Research

Institute for Laser, Plasma and Radiation Physics - INFLPR RA, director Dr. Gabriel Socol, manager of partener team University of Pitesti - CS II dr. Cătălin Marian DUCU, **2018-2020**

5. *Model demonstrativ de biotehnologie fungică pentru conversia completă a deșeurilor lignocelulozice sub formă de materiale biodegradabile și alimente naturale (DEMOFUNBIO)*, Cod: PN-III-P2-2.1-PED-2016-1769, contract nr: **196PED /2017**, contractor: University of Agronomic Sciences and Veterinary Medicine of Bucharest - Director: Prof.univ.dr. Teodorescu Razvan, partner institution - University of Pitesti – team manager Prof.univ.dr.Petre Marian, **2017-2018**
6. *Optimization of the processes of virus elimination in horticultural crops by in vitro chemotherapy and electrotherapy to achieve EU requirements on environmental quality and food products (SANOPLANT)*, PN-II-PT-PCCA-2011-3.1, project number 104/2012, **2012-2016**, contractor University of Pitesti, director dr. Carmen Mihaela Topala
7. *Advanced technologies and materials for optoelectronics (OPTOMATEH)*, PN II-Capacities 126cp/I - **2007 -2010**, contractor University of Craiova -director dr.Gabriela Iacobescu, partner institution University of Pitesti – manager of partner team – dr. Carmen Mihaela Topala
8. *Research on energy transfer, plasma - radiofrequency electromagnetic field in electrical discharges in gases*, CEEEX – 06-D11-7/2006, **2006-2008**,

Cited papers

2003: Liquid crystals. 9. The influence of the electric dipolar moment of the terminal mesogeneous groups on the temperatures corresponding to the phase transitions of some termotrope sterolic esthers, Oprescu, B; Topala, C, REVISTA DE CHIMIE Volume: 54 Issue: 9 Pages: 739-742 Published: SEP 2003, WOS: 000186420700004, *cited paper:* Cristale lichide 8. Studiul experimental al tranzitiei de faza de cristal lichid al unor amestecuri de mezogeni termotropi prin metoda difuziei luminii, B.Oprescu, C. Topala, **L. Tataru**, S. Anghel, *Revista de Chimie* (Bucuresti), 54 (7),2003.

2004: Extraction of thermodynamic data from ternary diffusion coefficients of lysozyme chloride in water and aqueous Na4SO4, Buzatu, D; Petrescu, E; Popa, C; et al., REVISTA DE CHIMIE, Volume: 55, Issue:10, Pages: 759-763, Published: OCT 2004, WOS: 000225068100007, *Cited paper:* Cristale lichide 8. Studiul experimental al tranzitiei de faza de cristal lichid al unor amestecuri de mezogeni termotropi prin metoda difuziei luminii, B.Oprescu, C. Topala, **L. Tataru**, S. Anghel, *Revista de Chimie* (Bucuresti), 54 (7), 2003,

2004: Measurements of Multicomponent Diffusion Coefficients for Lysozyme Chloride in Water and Aqueous Na2SO4, Buzatu, D; Petrescu, E; Popa, C; et al. REVISTA DE CHIMIE Volume: 55 Issue: 6 Pages: 435-438 Published: JUN 2004, WOS: 000222753600014, *cited paper:* Cristale lichide 8. Studiul experimental al tranzitiei de faza de cristal lichid al unor amestecuri de mezogeni termotropi prin metoda difuziei luminii, B.Oprescu, C. Topala, **L. Tataru**, S. Anghel, *Revista de Chimie* (Bucuresti), 54 (7),2003.

2008: Temperature dependence of the phospholipids bilayers stability, studied by FTIR spectroscopy, Severcan, Feride; Agheorghiesei, Catalin; Dorohoi, Dana-Ortansa, REVISTA DE CHIMIE, Volume: 59, Issue: 3,Pages: 356-359, Published: MAR 2008, WOS: 000255966000021, *cited paper:* Cristale lichide 8. Studiul experimental al tranzitiei de faza de cristal lichid al unor amestecuri de mezogeni termotropi prin metoda difuziei luminii, B.Oprescu, C. Topala, **L. Tataru**, S. Anghel, *Revista de Chimie* (Bucuresti), 54 (7),2003

2017: Pharmacodynamic Modulation of Motility by Glycine Administration in Dugesia Dorotocephala, Bogdan Horatiu Serb, Alina Ormenisan, Ancuta Pleseru, Vlad Preluca, Mihaela Cernusca Mitariu, Corina Roman Filip, Horia Mihail Barbu, Sebastian Cernusca Mitariu, Rev. Chim., 2016, 67(5), 842-846,WOS: 000395499200037, *Cited paper:* Infrared Spectra of Green Arabica Coffee, autori: C. M. Topala, LD Tătaru, REV. CHIM. (Bucharest), vol 66, No. 8, 2015, pag. 1128-1131

2017: A study of the content in volatile oils and their composition of various aromatic herbs from ecological soils, Popescu, Mariana; Puiu, Diana; Mihalache, Madalina; et al. Conference: 20th International Symposium on The Environment and the Industry (SIMI) Location: Bucharest, ROMANIADate: SEP 28-29, 2017, 20TH INTERNATIONAL SYMPOSIUM - THE ENVIRONMENT AND THE INDUSTRY (SIMI 2017) Pages: 206-212 Published: 2017, WOS: 000430609800026, *cited paper:* ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, Topala, C.M., Tataru, L.D., *Revista de Chimie*, volume 67, issue 5, year 2016, pp. 842 - 846

2017: Processing, structure, property relationships and release kinetics of electrospun PLA/Carvacrol membranes, Scaffaro, R., Lopresti, F, European Polymer Journal volume 100, issue , year 2018, pp. 165 – 171, WOS: 000429760600019, *cited paper:* *cited paper:* ATR-FTIR Study of thyme and rosemary oils extracted by

supercritical carbon dioxide, Topala, C.M., Tataru, L.D., Revista de Chimie, volume 67, issue 5, year 2016, pp. 842 – 846

2017: SPECTROSCOPIC INVESTIGATION OF ESSENTIAL OIL COMPONENTS IN SOME THYME SPECIES, Fatma EROĞLU, Seda KÜLEN, Sebla DİNÇER, Merve GÜMÜŞSOY, *cited article:* FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, autori C. M. Topala, LD Tătaru, Rev. Chim., 2016, 67(5), 842-846 - google citations (International Congress of Medicinal and Aromatic Plants, 10-12 mai 2017, 890-892}

2018: Optimised Pu-erh Tea Infusion by Experimental Design and Response Surface Methodology, Isopescu, Raluca Daniela; Josceanu, Ana Maria; Minca, Iulian Ilie; et al. , Volume: 69, Issue: 2, Pages: 310-317, Published: FEB 2018, WOS: 000427327700005, *cited paper:* ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori: Topala, C.M., Tataru, L.D., Revista de Chimie, volume 67, issue 5, year 2016, pp. 842 - 846

2018: Supercritical CO₂ impregnation of PLA/PCL films with natural substances for bacterial growth control in food packaging, Stoja Milovanovic, Gesa Hollermann, Cornelia Errenst Jelena Pajnik, Sulamith Frerich, Stephen Kroll Kurosch Rezwan, Jasna Ivanovic, FOOD RESEARCH INTERNATIONAL, Volume: 107, Pages: 486-495, Published: MAY 2018, WOS: 000430770700051, *cited paper:* ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, Topala, C.M., Tataru, L.D., Revista de Chimie, volume 67, issue 5, year 2016, pp. 842 - 846

2018: Efficacy of poly(lactic acid)/carvacrol electrospun membranes against Staphylococcus aureus and Candida albicans in single and mixed cultures,, Roberto Scaffaro, Francesco Lopresti, Manuela D'Arrigo, Antonia Nostro

APPLIED MICROBIOLOGY AND BIOTECHNOLOGY,, Volume: 102, Issue: 9, Pages: 4171-4181, DOI: 10.1007/s00253-018-8879-7, Published: MAY 2018, WOS: 000429800600025, *cited paper:* ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, Topala, C.M., Tataru, L.D., Revista de Chimie, volume 67, issue 5, year 2016, pp. 842 - 846

2018: Utilization of supercritical carbon dioxide in fabrication of cellulose acetate films with anti-biofilm effects against Pseudomonas aeruginosa and Staphylococcus aureus, Utilization of supercritical carbon dioxide in fabrication of cellulose acetate films with anti-biofilm effects against Pseudomonas aeruginosa and Staphylococcus aureus, The Journal of Supercritical Fluids, Volume 140, October 2018, Pages 11-20, Elsevier, WOS:000446284200002, *cited article:* ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, Topala, C.M., Tataru, L.D., Revista de Chimie, volume 67, issue 5, year 2016, pp. 842 - 846

2018: Effect of emergent non-thermal extraction technologies on bioactive individual compounds profile from different plant materials, Sílvia A. Moreira, Elisabete M.C., Alexandre, Manuela Pintado, Jorge A. Saraiva, Food Research International, ELSEVIER, Available online 22 August 2018, In Press, Corrected Proof, <https://doi.org/10.1016/j.foodres.2018.08.046>, WOS:000456758800021 *cited article:* ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, Topala, C.M., Tataru, L.D., Revista de Chimie, volume 67, issue 5, year 2016, pp. 842 - 846

2018: Evaluation of the Rosemary Extract Effect on the Properties of Polylactic Acid-Based Materials, Raluca Nicoleta Darie-Niță, Cornelia Vasile, Elena Stoleru, Daniela Pamfil, Traian Zaharescu, Liliana Tarțău, Niță Tudorachi, Mihai Adrian Brebu, Gina Mihaela Pricope, Raluca Petronela Dumitriu and Karol Leluk, Materials 2018, 11(10), 1825; <https://doi.org/10.3390/ma11101825>, WOS:000448658400039 *cited article:* C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846

2018: Evaluation of (Hg²⁺) adsorption capacity using exhausted coffee waste, Nubia María Mora Alvarez, Johnny Marcelo Pastrana, Yolanda Lagos, Juan José Lozada,, Suistenable Chemistry and pharmacy, 2018,10, 60-70, <https://doi.org/10.1016/j.scp.2018.09.004>, WOS:000454309200010, *cited article:* Topala, C.M., Tataru, L.D., 2015. Infrared spectra of green arabica coffee extraction using supercritical carbon dioxide and soxhlet technique. REV. CHIM. (Bucharest),66 (8),2015, 1128-1131

2018: Comparative Study of α and β - pinene Content in Volatile Oils of Abies alba, Pinus sylvestris, Juniperus communis, Rosmarinus officinalis, Salvia officinalis and Coriandrum sativum, MARIANA POPESCU, DIANA PUIU, ANCA DANIELA RAICIU, Rev Chim., 2018, 69(9), 2338, http://www.revistadechimie.ro/article_ro.asp?ID=6529, WOS:000449628400006, *cited article* : C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846

2019: ATR - FTIR Spectral Analysis of Ferns Using as Fingerprint for Identification of Fern Species, REV.CHIM.(Bucharest), 70(3), 2019, autori: CARMEN MIHAELA TOPALA, ALINA PAUNESCU, LILIANA

CRISTINA SOARE, http://www.revistadechimie.ro/article_ro.asp?ID=7024, WOS:000464911600026, *cited article* TOPALA, C.M., TATARU, L.D, Rapid Method for the Discrimination of Romanian Wines Based on Mid-Infrared Spectroscopy and Chemometrics, Rev. Chim. (Bucharest), 69, no. 2, 2018, p.469

2019 Variation of the chemical composition of Thymus vulgaris essential oils by phenological stages, CRISTIAN MOISA, ANDREEA LUPITU, GEORGETA POP, DORINA RODICA CHAMBRE, LUCIAN COPOLOVICI, GABRIELA CIOCA, SIMONA BUNGAU, DANA MARIA COPOLOVICI, Revista de Chimie, 2019, 70(2), http://www.revistadechimie.ro/article_ro.asp?ID=6973, WOS:000461982200058, *Cited article*: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846

2019: Effect of emergent non-thermal extraction technologies on bioactive individual compounds profile from different plant materials, Moreira, Silvia A.; Alexandre, Elisabete M. C.; Pintado, Manuela; et al., FOOD RESEARCH INTERNATIONAL, Volume: 115, Pages: 177-190 Published: JAN 2019, WOS:000456758800021, *Cited article*: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846

2019: Fabrication and characterization of thymol-loaded nanofiber mats as a novel antimould surface material for coating cheese surface, Tatlisu, Nevruz & Yilmaz, Mustafa & Arici, Muhammet. Food Packaging and Shelf Life 21:100347, DOI: 10.1016/j.fpsl.2019.100347, WOS: 000487842900028

Cited article: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846

2019: WPI and Cellulose Nanofibres Bio-nanocomposites: Effect of Thyme Essential Oil on the Morphological, Mechanical, Barrier and Optical Properties, Journal of Polymers and the Environment, <https://doi.org/10.1007/s10924-019-01598-6>, Raissa Alvarenga Carvalho, Ana Carolina Salgado de Oliveira, Taline Amorim Santos, Marali Vilela Dias, Maria Irene Yoshida, Soraia Vilela Borges. WOS::000202000239998

Cited article: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846

2019: Irina Geana, Corina 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 WOS: 000501529700155

articol citat: Topala, C.M.; Tataru, L.D. Rapid Method for the Discrimination of Romanian Wines Based on Mid-Infrared Spectroscopy and Chemometrics. Rev. Chim.(Bucharest) **2018**, 69, 469–473.

2019: Characterization and Classification of Romanian Wines by Origin A chemometric approach based on some metals and phenolic composition, Ionete, Roxana Elena; Stegarus, Diana Ionela; Geana, Elisabeta Irina; et al., REVISTA DE CHIMIE Volume: 70 Issue: 11 Pages: 3761-3768 Published: NOV 2019 WOS: 000501529700155

articol citat: Rapid Method for the Discrimination of Romanian Wines Based on Mid-Infrared Spectroscopy and Chemometrics, Topala, Carmen Mihaela; Tataru, Lavinia Diana, REVISTA DE CHIMIE Volume: 69 Issue: 2 Pages: 469-473

2020: Dextran-Thyme Magnesium-Doped Hydroxyapatite Composite Antimicrobial Coatings, Simona Liliana Iconaru, Mihai Valentin Predoi, Mikael Motelica-Heino, Daniela Predoi, Nicolas Buton, Christelle Megier and George E. Stan, Coatings 2020, 10, 57; doi:10.3390/coatings1001005, *Cited article*: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846

2020: Bacterial cellulose with microencapsulated antifungal essential oils: a novel double barrier release system Shivakalyani Adepu, Mudrika Khandelwal, Materialia, 2020, 10 jan <https://doi.org/10.1016/j.mtla.2020.100585>, *Cited article*: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846

2020: Chemical composition, antioxidant capacity, and thermal behavior of Saturejahortensis essential oil, Chambre, DR; Moisa, C; (...) Copolovici, DM Dec 7 2020 | SCIENTIFIC REPORTS 10 (1), 4.379 -Journal Impact Factor™ (2020) Cited article: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846 WOS: 000609197300005

2020: Antioxidant activity of PLA/PCL films loaded with thymol and/or carvacrol using scCO₂ for active food packaging, Lukic, I; Vulic, J and Ivanovic, J Dec 2020 | FOOD PACKAGING AND SHELF LIFE 26, 6.429 - Journal Impact Factor TM (2020)Cited article: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846WOS: 000597409100007

2020: Study on Thermal Behavior of Some Biocompatible and Biodegradable Materials Based on Plasticized PLA, Chitosan, and Rosemary Ethanolic Extract, Vasile, C; Tudorachi, N; (...); Cheaburu-Yilmaz, CN Jul 15 2020 | INTERNATIONAL JOURNAL OF POLYMER SCIENCE 2020Cited article: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie – Bucharest 67(5) (2016) 842-846WOS: 000556314900001

2020: Development of Biodegradable Whey-Based Laminate Functionalised by Chitosan-Natural Extract Formulations, Potrc, S; Zemljic, LF; (...); Plohl, O May 2020 | INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 21 (10), 5.923 - Journal Impact Factor TM (2020)Cited article: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846WOS: 000539312100264

2020: Physicochemical Characterization of Packaging Foils Coated by Chitosan and Polyphenols Colloidal Formulations, Zemljic, LF; Plohl, O; (...); Potrc, S Jan 2 2020 | INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 21 (2) , 5.923 - Journal Impact Factor TM (2020) Cited article: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846WOS: 000515380000125

2020: WPI and Cellulose Nanofibres Bio-nanocomposites: Effect of Thyme Essential Oil on the Morphological, Mechanical, Barrier and Optical Properties, Carvalho, RA; de Oliveira, ACS; (...); Borges, SV Jan 2020 | JOURNAL OF POLYMERS AND THE ENVIRONMENT 28 (1) , pp.231-241, 3.667 - Journal Impact Factor TM (2020) Cited article: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846WOS: 000493761600001

2021:Physically cross-linked chitosan/dextrin cryogels entrapping Thymus vulgaris essential oil with enhanced mechanical, antioxidant and antifungal properties, Dinu, MV; Gradinaru, AC; (...); Aprotosoie, AC Aug 1 2021 | INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 184 , pp.898-908Cited article: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846WOS: 000682782900006

2021:Antimicrobial activity of various essential oils and their application in active packaging of frozen vegetable products, Tao, R; Sedman, J and Ismail, A Oct 30 2020 | FOOD CHEMISTRY 360 Cited article: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846WOS: 000663772000001

2021: Temperature-controlled-release of essential oil via reusable mesoporous composite of microcrystalline cellulose and zeolitic imidazole frameworks, Abdelhameed, RM; Alzahrani, E; (...); Emam, HE Feb 25 2021 | JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY 94 , pp.134-144, 6.064 Journal Impact Factor TM (2020) Cited article: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846WOS: 000609409400004

2021:Bioactive Sambong oil-loaded electrospun cellulose acetate nanofibers: Preparation, characterization, and in-vitro biocompatibility, Ullah, A; Saito, Y; (...); Kim, IS Jan 1 2021 | INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 166 , pp.1009-1021 , 6.953 Journal Impact Factor TM (2020) Cited article: C.M. Topala, L.D. Tataru, ATR-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Revista de Chimie –Bucharest 67(5) (2016) 842-846WOS: 000603588400097

2021: Paper R-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon DioxideTopala, CM and Tataru, LD May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited byEnzyme- and Relative Humidity-Responsive Antimicrobial Fibers for Active Food PackagingAytac, Z; Xu, J; (...); Demokritou, POct 27 2021 | Oct 2021 (Early Access) | ACS APPLIED MATERIALS & INTERFACES 13 (42) , pp.50298-50308

2021: Paper R-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon DioxideTopala, CM and Tataru, LD May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited byCharacterization and in vitro antimicrobial study of soy protein isolate films incorporating carvacrolTao, R; Sedman, J and Ismail, AJan 2022 | Aug 2021 (Early Access) | FOOD HYDROCOLLOIDS 122

2021: Paper R-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon DioxideTopala, CM and Tataru, LD May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited byPhysically cross-linked

chitosan/dextrin cryogels entrapping *Thymus vulgaris* essential oil with enhanced mechanical, antioxidant and antifungal properties Dinu, MV; Gradinaru, AC; (...); Aprotosoie, ACAug 1 2021 | Jun 2021 (Early Access) | INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 184 , pp.898-908

2021: Paper R-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide Topala, CM and Tataru, LD May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by Antimicrobial activity of various essential oils and their application in active packaging of frozen vegetable products Tao, R; Sedman, J and Ismail, AOct 30 2021 | May 2021 (Early Access) | FOOD CHEMISTRY 360

2021: Paper R-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide, Topala, CM and Tataru, LD May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by Preparation and characterization of chitosan/pullulan film loading carvacrol for targeted antibacterial packaging of chilled meat Xiao, LQ; Kang, S; (...); Liu, MXJun 30 2022 | INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 211 , pp.140-149

2021: Paper R-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide Topala, CM and Tataru, LD May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by Thermal, structural, antimicrobial, and physicochemical characterisation of thyme essential oil encapsulated in beta- and gamma-cyclodextrin Ahmed, J; Mulla, MZ; (...); Joseph, A May 19 2022 | Jun 2022 (Early Access) | JOURNAL OF MICROENCAPSULATION 39 (4) , pp.364-379

2021: Paper Chemical composition, antioxidant and cytogenotoxic effects of *Ligularia sibirica* (L.) Cass. roots and rhizomes extracts, Sutan A, Matei A, ... Tataru L, et all. CARYOLOGIA, 73 (1), p.83-92, 2020 2020 cited by Use of chemical, fish micronuclei, and onion chromosome damage analysis, to assess the quality of urban wastewater treatment and water of the Kamniska Bistrica river (Slovenia) Firbas, P and Amon, T, 2021, CARYOLOGIA 74 (3) , pp.119-139

2021: Paper Chemical composition, antioxidant and cytogenotoxic effects of *Ligularia sibirica* (L.) Cass. roots and rhizomes extracts, Sutan A, Matei A, ... Tataru L, et all. CARYOLOGIA, 73 (1), p.83-92, 2020 cited by BIOTECHNOLOGICAL APPROACHES FOR EX SITU CONSERVATION OF MEDICINAL SPECIES *LIGULARIA SIBIRICA* (L.) CASS Vladimirescu, M; Banciu, C; (...); Manole, A 2021, SCIENTIFIC PAPERS-SERIES B-HORTICULTURE 65 (2) , pp.315-320

2021 Paper ATR-FTIR Spectroscopy Coupled with Chemical and Chemometric Analysis to Distinguish Between Some Sweet Wines, Topala C. & Tataru L., Revista de Chimie 70 (7), p: 2355-2361, cited by Helium Atmospheric Pressure Plasma Jet Source Treatment of White Grapes Juice for Winemaking, Huzum, R and Nastuta, AV, Sep 2021, APPLIED SCIENCES-BASEL 11 (18)

2022: Paper R-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide Topala, CM and Tataru, LD May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by Zeolite/Chitosan/Gelatin Films: Preparation, Supercritical CO₂ Processing, Characterization, and Bioactivity Pajnik, J; Dikic, J; (...); Lukic, IAug 2022 | Apr 2022 (Early Access) | MACROMOLECULAR MATERIALS AND ENGINEERING 307 (8)

2022: Paper R-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide Topala, CM and Tataru, LD May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by Ferromagnetic nickel (II) oxide (NiO) nanoparticles: biosynthesis, characterization and their antibacterial activities Nazaripour, E; Mosazadeh, F; (...); Khatami, M Mar 2022 | Jan 2022 (Early Access) | RENDICONTI LINCEI-SCIENZE FISICHE E NATURALI 33 (1) , pp.127-134

2022: Paper R-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide Topala, CM and Tataru, LD May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by Extraction of bioactive compounds from plant materials using combination of various novel methods: A review Jha, AK and Sit, N Jan 2022 | TRENDS IN FOOD SCIENCE & TECHNOLOGY 119 , pp.579-591

2022: Paper Rapid Method for the Discrimination of Romanian Wines Based on Mid-Infrared Spectroscopy and Chemometrics Topala, CM and Tataru, LD Feb 2018 | REVISTA DE CHIMIE 69 (2) , pp.469-473, cited by Fourier transform infrared spectroscopy in monitoring the wine production Thanasi, V; Catarino, S and Ricardo-da-Silva, J Jun 21 2022 | CIENCIA E TECNICA VITIVINICOLA 37 (1) , pp.79-99

2022: Paper Infrared Spectra of Green Arabica Coffee Extraction using Supercritical Carbon Dioxide and Soxhlet Technique Topala, CM and Tataru, LD Aug 2015 | REVISTA DE CHIMIE 66 (8) , pp.1128-1131, cited by Green synthesis of iron nanoparticles of clove and green coffee origin with an in vivo hepatoprotective investigation Mahmoud, R; Kotp, AA; (...); Amin, R Dec 2021 | Sep 2021 (Early Access) | JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING 9 (6)

2022: Paper ATR-FTIR Spectroscopy Coupled with Chemical and Chemometric Analysis to Distinguish Between Some Sweet Wines Topala, CM and Tataru, LD Jul 2019 | REVISTA DE CHIMIE 70 (7) , pp.2355-2361, cited by Fourier transform infrared spectroscopy in monitoring the wine production Thanasi, V; Catarino, S and Ricardo-da-Silva, J Jun 21 2022 | CIENCIA E TECNICA VITIVINICOLA 37 (1) , pp.79-99

2022: Paper Regeneration of grapevine virus-free plants by in vitro chemotherapy Guta, IC; Buciumeanu, EC; (...); Topala, CM 10th International Symposium on Grapevine Physiology and Biotechnology 2017 | X INTERNATIONAL SYMPOSIUM ON GRAPEVINE PHYSIOLOGY AND BIOTECHNOLOGY 1188 , pp.319-322, cited by Elimination of Eight Viruses and Two Viroids from Preclonal Candidates of Six Grapevine Varieties (*Vitis vinifera* L.) through In Vivo Thermotherapy and In Vitro Meristem Tip Micrografting Miljanic, V; Rusjan, D; (...); Stajner, N Apr 2022 | PLANTS-BASEL 11 (8)

2022: Paper Chemical composition, antioxidant and cytogenotoxic effects of *Ligularia sibirica* (L.) Cass. roots and rhizomes extracts Sutan, NA; Matei, AN; (...); Topala, CM 2020 | CARYOLOGIA 73 (1) , pp.83-92 cited by BIOTECHNOLOGICAL APPROACHES FOR EX SITU CONSERVATION OF MEDICINAL SPECIES *LIGULARIA SIBIRICA* (L.) CASS Vladimirescu, M; Banciu, C; (...); Manole, A 2021 | SCIENTIFIC PAPERS-SERIES B-HORTICULTURE 65 (2) , pp.315-320 BIOTECHNOLOGICAL APPROACHES FOR EX SITU CONSERVATION OF MEDICINAL SPECIES *LIGULARIA SIBIRICA* (L.) CASS Vladimirescu, M; Banciu, C; (...); Manole, A 2021 | SCIENTIFIC PAPERS-SERIES B-HORTICULTURE 65 (2) , pp.315-320

2022: Paper Chemical composition, antioxidant and cytogenotoxic effects of *Ligularia sibirica* (L.) Cass. roots and rhizomes extracts Sutan, NA; Matei, AN; (...); Topala, CM 2020 | CARYOLOGIA 73 (1) , pp.83-92 cited by Use of chemical, fish micronuclei, and onion chromosome damage analysis, to assess the quality of urban wastewater treatment and water of the Kamniska Bistrica river (Slovenia) Firbas, P and Amon, T 2021 | CARYOLOGIA 74 (3) , pp.119-139

2022: Paper R-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide Topala, CM and Tataru, LD May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by Bioactive Sambong oil-loaded electrospun cellulose acetate nanofibers: Preparation, characterization, and in-vitro biocompatibility A Ullah, Y Saito, S Ullah, MK Haider, H Nawaz... - International Journal of Biological Macromolecules..., 2021 - Elsevier

2022: Paper R-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide Topala, CM and Tataru, LD May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by PREPARATION AND CHARACTERIZATION OF PP AND PECO COMPOSITE FILMS CONTAINING ROSEMARY EXTRACT M Jakić, I Naletilić, D Skroza - MATRIB 2022 - bib.irb.hr

2022: Paper R-FTIR Study of Thyme and Rosemary Oils Extracted by Supercritical Carbon Dioxide Topala, CM and Tataru, LD, May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by Zeolite/Chitosan/Gelatin Films: Preparation, Supercritical CO₂ Processing, Characterization, and Bioactivity J Pajnik, J Dikić, S Milovanovic... - Macromolecular ..., 2022 - Wiley Online Library

2022: Paper Infrared Spectra of Green Arabica Coffee Extraction using Supercritical Carbon Dioxide and Soxhlet Technique Topala, CM and Tataru, LD Aug 2015 | REVISTA DE CHIMIE 66 (8) , pp.1128-1131, cited by Sustainable Chemistry and Pharmacy NMM Alvarez, JM Pastrana, Y Lagos, JJ Lozada

2022: Paper New approach of electrotherapy for grapevine virus elimination IC Guță, EC Buciumeanu, LD Tătaru, B Oprescu, CM Topală III International Symposium on Horticulture in Europe-SHE 2016 1242, 697-702 cited by A critical review of the current global ex situ conservation system for plant agrobiodiversity. I. History of the development of the global system in the context of the ... JMM Engels, AW Ebert - Plants, 2021 - mdpi.com

2022: Paper New approach of electrotherapy for grapevine virus elimination IC Guță, EC Buciumeanu, LD Tătaru, B Oprescu, CM Topală III International Symposium on Horticulture in Europe-SHE 2016 1242, 697-702 cited by Phytotoxicity and other adverse effects on the in vitro shoot cultures caused by virus elimination treatments: Reasons and solutions K Magyar-Tábori, N Mendler-Drienyovszki, A Hanász... - Plants, 2021 - mdpi.com

2022: Paper New approach of electrotherapy for grapevine virus elimination IC Guță, EC Buciumeanu, LD Tătaru, B Oprescu, CM Topală III International Symposium on Horticulture in Europe-SHE 2016 1242, 697-702 cited by A mini-review on electrotherapeutic strategy for the plant viral elimination S Adil, V Singh, A Anjum, A Quraishi - Plant Cell, Tissue and Organ Culture ..., 2022 - Springer

2022: Paper New approach of electrotherapy for grapevine virus elimination IC Guță, EC Buciumeanu, LD Tătaru, B Oprescu, CM Topală III International Symposium on Horticulture in Europe-SHE 2016 1242, 697-702 cited by A mini-review on electrotherapeutic strategy for the plant viral elimination S Adil, V Singh, A Anjum, A Quraishi - Plant Cell, Tissue and Organ Culture ..., 2022 - Springer

2022: Paper The use of in vitro chemotherapy in grapevine virus elimination IC Guță, EC Buciumeanu, CM Topală, LD Tătaru VI International Symposium on Production and Establishment of ... cited by Phytotoxicity and other adverse effects on the in vitro shoot cultures caused by virus elimination treatments: Reasons and solutions K Magyar-Tábori, N Mandler-Drienyovszki, A Hanász... - Plants, 2021 - mdpi.com

2022: Paper Paper The use of in vitro chemotherapy in grapevine virus elimination IC Guță, EC Buciumeanu, CM Topală, LD Tătaru VI International Symposium on Production and Establishment of ... cited by Combined Transcriptome-and Proteome-based Analyses for Mining of Genes Associated with Fruit Cracking in Chinese Jujube (*Ziziphus jujuba* Mill.) M Lin, J Wang, Q Gao, C Wu... - Romanian Journal of ... - romanianjournalofhorticulture.ro

2022: Paper Chemical composition, antioxidant and cytogenotoxic effects of *Ligularia sibirica* (L.) Cass. roots and rhizomes extracts Sutan, NA; Matei, AN; (...); Topala, CM 2020 | CARYOLOGIA 73 (1), pp.83-92 cited by BIOTECHNOLOGICAL APPROACHES FOR EX SITU CONSERVATION OF MEDICINAL SPECIES *LIGULARIA SIBIRICA* (L.) CASS. M VLADIMIRESCU, C BANCUI, IC PAICA, GM MARIA... - horticulturejournal.usamv.ro

2023: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala & Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5), pp.842-846, cited by Extraction of bioactive compounds from plant materials using combination of various novel methods: A review AK Jha, N Sit - Trends in Food Science & Technology, 2022 – Elsevier

2023: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala & Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5), pp.842-846, cited by Extraction and purification of α -pinene; a comprehensive review, autori: MM Karimkhani, M Nasrollahzadeh... - Critical Reviews in ..., nov 2022 - Taylor & Francis

2023: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala & Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5), pp.842-846, cited by Xiao, Longquan, et al. "Preparation and characterization of chitosan/pullulan film loading carvacrol for targeted antibacterial packaging of chilled meat." International Journal of Biological Macromolecules 211 (2022): 140-149.

2023: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala & Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5), pp.842-846, cited by Choudhary, Priyvar, et al. "Synthesis, Characterization and Catalytic Activity of Bio-MCM-41 for Production of Bio Crude Oil via Pyrolysis of Rice Straw." Waste and Biomass Valorization (2023): 1-14.

2023: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala & Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5), pp.842-846, cited by Ali, Shaik Mohammad, Mohammed Talha Uddin, and Shaik Aaliya Afreen. "Effect of emerging non-thermal extraction methods on bioactive individual components profile from diverse plant materials." (2023).

2023: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala & Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5), pp.842-846, cited by Jakić, Miće, Iva Naletilić, and Danijela Skroza. "PREPARATION AND CHARACTERIZATION OF PP AND PE COMPOSITE FILMS CONTAINING ROSEMARY EXTRACT." MATRI B 2022.

2023: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala & Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5), pp.842-846, cited by Naletilić, Iva. Priprema i karakterizacija polimernog ambalažnog filma s dodatkom ekstrakta ružmarina. Diss. University of Split. Faculty of Chemistry and Technology. Division of Engineering and Chemistry, 2022.

2023: Paper ATR-FTIR Spectroscopy Coupled with Chemical and Chemometric Analysis to Distinguish Between Some Sweet Wines, Topala C. & Tataru L., Revista de Chimie 70 (7), p: 2355-2361, cited by Development of a smart spectral analysis method for the determination of mulberry (*Morus alba* var. *nigra* L.) juice quality parameters using FT-IR spectroscopy, Soltanikazemi, M; Mehdizadeh, SA; (...); Faregh, SM, Apr 2023 FOOD SCIENCE & NUTRITION 11 (4), pp.1808-1817

2023: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala & Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5), pp.842-846, cited by Biosynthesis of ternary NiCoFe₂O₄ nanoflowers: investigating their 3D structure and potential use in gene delivery Alijani, HQ; Khatami, M; (...); Heydari, A, Oct 2 2023, JOURNAL OF BIOLOGICAL ENGINEERING 17 (1)

2024: Paper New approach of electrotherapy for grapevine virus elimination., Guță, I.-C., Buciumeanu, E.-C., Tătaru, L.D., Oprescu, B. and Topală, C.M. *Acta Hort.* 1242, p. 697-702, 2019 cited by Elimination potential of

electrotherapy and cold therapy combined with chemotherapy on apple scar skin viroid on *in vitro* apple plants, Hu, GJ; Dong, YF; (...); Ren, F, Sep 2024, PHYTOPARASITICA 52 (4)

2024: Paper New approach of electrotherapy for grapevine virus elimination., Guță, I.-C., Buciumeanu, E.-C., Tătaru, L.D., Oprescu, B. and Topală, C.M. *Acta Hort.* 1242, p. 697-702, 2019 cited by Assessment of virus eradication methods from infected in vitro-grown apricot cultures, Khafri, AZ; Zarghami, R; (...); Mirzaei, L, Feb 2024, PLANT CELL TISSUE AND ORGAN CULTURE, 152(2)

2024: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala&Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by Chemical, physical, and biological evaluation of hydro-distilled essential oil from leaves of Ethiopian thymus species, Asres, Y; Hymete, A; (...); Ayalew, A, Dec 31 2024, INTERNATIONAL JOURNAL OF FOOD PROPERTIES 27 (1) , pp.549-565

2024: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala&Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by Encapsulation in Silica Nanoparticles Increases the Phytotoxicity of Essential Oil from Thymus vulgaris in a Weed Species, Boukhalfa, R; Dimkpa, CO; (...); De Mastro, G, Nov 11 2024, ACS AGRICULTURAL SCIENCE & TECHNOLOGY 4 (12) , pp.1321-1331

2024: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala&Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by Enhancing therapeutic effects alginate microencapsulation of thyme and calendula oils using ionic gelation for controlled drug delivery Çakir, C and Gürkan, EH, Nov 21 2024, JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION 35 (17) , pp.2611-2639

2024: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala&Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by Fenugreek seed mucilage-based active edible films for extending fresh fruit shelf life: Antimicrobial and physicochemical properties, Lindi, AM; Gorgani, L; (...); Moeini, A, Jun 2024, INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 269

2024: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala&Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by Porous α -Fe 2 O 3 nanocarriers: Biosynthesis and in vitro gene delivery applications, Alijani, HQ; Pourseyedi, S; (...); Khatami, M, Apr 15 2024, HELIYON 10 (7)

2024: Paper Infrared Spectra of Green Arabica Coffee, C. M. Topala, LD Tătaru, REV. CHIM. (Bucharest), vol 66, No. 8, 2015, pag. 1128-1131, cited by Coffee Oil Extraction Methods: A Review, Ribeiro, RC; Mota, MFS; (...); Rezende, CM, Aug 2024, FOODS 13 (16)

2025: Paper ATR-FTIR Spectroscopy Coupled with Chemical and Chemometric Analysis to Distinguish Between Some Sweet Wines, Topala C. &Tataru L., Revista de Chimie 70 (7), p: 2355-2361, cited by Evaluation of agarwood oil authenticity with smartphone-based handheld near-infrared spectrometer, Chowdhury, MZH, feb. 2025, MICROCHEMICAL JOURNAL

2025: Paper New approach of electrotherapy for grapevine virus elimination., Guță, I.-C., Buciumeanu, E.-C., Tătaru, L.D., Oprescu, B. and Topală, C.M. *Acta Hort.* 1242, p. 697-702, 2019 cited by A comprehensive review on *in vitro* therapies for virus elimination and novel methods for virus protection in key horticultural crops, Thanuja, K; Arulmozhiyan, R; (...); Rajanbabu, V, Jul 2025, PLANTA 262 (1)

2025: Paper New approach of electrotherapy for grapevine virus elimination., Guță, I.-C., Buciumeanu, E.-C., Tătaru, L.D., Oprescu, B. and Topală, C.M. *Acta Hort.* 1242, p. 697-702, 2019 cited by Inhibitory Effects of Garlic Extract on Hop Stunt Viroid in Micropropagated Grapevine Plantlets, Kang, CM and Jeong, RD, Feb 2025 PLANT PATHOLOGY JOURNAL 41 (1) , pp.51-63

2025: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala&Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by Optimization of supercritical fluid extraction and characterization of essential oil from Ethiopian thymus species, Asres, Y; Hymete, A; (...); Ayalneh, S, May 2025, JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION

2025: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala&Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by Textile wastewater treatment by heterogeneous catalytic ozonation using microcellulose loaded ZIF 67 catalyst, Tariq, MF; Javed, F; (...); Ikhlaiq, A, Apr 2025, JOURNAL OF ENVIRONMENTAL MANAGEMENT, 380

2025: Paper: ATR-FTIR Study of thyme and rosemary oils extracted by supercritical carbon dioxide, autori Carmen Topala&Lavinia Tataru May 2016 | REVISTA DE CHIMIE 67 (5) , pp.842-846, cited by A novel green Microfiltration approach by developing a Lab-on-a-Chip System: A case study for Escherichia coli Javanifar, R; Dabagh, S; (...); Avci, H, Jan 19 2025, SEPARATION AND PURIFICATION TECHNOLOGY 353

2025:Paper Infrared Spectra of Green Arabica Coffee, C. M. Topala, LD Tătaru, REV. CHIM. (Bucharest), vol 66, No. 8, 2015, pag. 1128-1131, cited by Direct Hot Solid-Liquid Extraction (DH-SLE): A High-Yield Greener Technique for Lipid Recovery from Coffee Beans, de Faria, DC; de Queiroz, MELR and Novaes, FJM, Jan 2025, PLANTS-BASEL 14 (2)