



**Europass
Curriculum Vitae**



Personal information

First name(s) / Surname(s) **CASONI DORINA**
 Address(es) Arany Janos 11400028, Cluj-Napoca, România
 Telephone(s) +40-264-593833
 Fax(es) +40 264590818
 E-mail dorina.casoni@ubbcluj.ro; casoni_dorina@yahoo.com
 Nationality Romanian
 Date of birth December 4, 1977

Work experience

Dates	February 2017 - present
Occupation or position held	Lecturer
Main activities and responsibilities	Teaching, research
Name and address of employer	Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Department of Chemistry
Type of business or sector	Higher Education and Research
Dates	February 2015 – February 2017
Occupation or position held	Assistant Professor
Main activities and responsibilities	Teaching, research
Name and address of employer	Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Department of Chemistry, Cluj-Napoca (Romania) Higher Education and Research
Dates	January 2008 – October 2016
Occupation or position held	Researcher Assistant
Main activities and responsibilities	Research activity
Name and address of employer	Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Department of Chemistry, Cluj-Napoca (Romania)
Type of business or sector	Research / Analytical Chemistry, Chromatography, Spectrometry, Chemometrics
Dates	November 2013 – October 2014
Occupation or position held	Project manager (Grant for Young Researchers GTC–34063/2013)
Main activities and responsibilities	Research activity

Name and address of employer	Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Department of Chemistry, Cluj-Napoca (Romania)
Type of business or sector	Research / Analytical Chemistry, Chromatography, Spectrometry, Chemometrics
Dates	June 2011 – March 2013
Occupation or position held	Postdoctoral researcher (POSDRU 89/1.5/S/60189 project)
Main activities and responsibilities	Research activity
Name and address of employer	Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Department of Chemistry, Cluj-Napoca (Romania)
Type of business or sector	Research / Analytical Chemistry, Chromatography, Spectrometry, Chemometrics
Education and training	
Dates	November 2001 – May 2010
Title of qualification awarded	PhD in Chemistry
Principal subjects/occupational skills covered	Analytical Chemistry/ Chromatography, UV-Vis Spectrometry
Name and type of organisation providing education and training	Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca (Romania)
Level in national or international classification	Postgraduated
Dates	Octombrie 2000 – Iunie 2001
Title of qualification awarded	Master diploma
Principal subjects/occupational skills covered	Analytical Chemistry/ Modern analysis methods used in quality control of environment and products (Chromatographic and Spectroscopic Techniques) Erasmus student (Scholarship Erasmus Intensive Programme, Ioannina University, Greece (March – June 2000)
Name and type of organisation providing education and training	Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca (Romania)
Level in national or international classification	Postgraduated
Dates	September 1996 – June 2000
Title of qualification awarded	Chemist
Principal subjects/occupational skills covered	Chemistry and Physics
Name and type of organisation providing education and training	Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca (Romania)
Level in national or international classification	University Graduate
Dates	September 1992 – June 1996
Title of qualification awarded	High school diploma
Principal subjects/occupational skills covered	Mathematics, Computer science, Physics

Name and type of organisation providing education and training	Computer High School "Tiberiu Popoviciu" Cluj-Napoca (Romania)				
Level in national or international classification	Highschool graduated				
Personal skills and competences	Romanian				
Mother tongue(s)					
Other language(s)	English French				
Self-assessment	Understanding		Speaking		Writing
<i>European level (*)</i>	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B1	B1	A2	A2	A2
	(*) <i>Common European Framework of Reference for Languages</i> Levels: A1/2: Basic user -B1/2: Independent user -C1/2 Proficient user				
Organisational skills and competences	<p>Good experience in projects team organization</p> <ul style="list-style-type: none"> - member in two national projects - Microsoft Word, advanced - Microsoft Excel, advanced - Microsoft Power Point, advanced - Internet, advanced - Ability to use special software (Statistica, Dragon. Alchemy, ChemDraw Ultra, HyperChem, Bio-Loom, etc. ImageDecipher TLC, Sorbfil TLC) with broad applications both in chemistry and other interdisciplinary fields. 				
Additional information	<ul style="list-style-type: none"> • Member in research teams (2 projects) • Papers published in ISI journals: 50 (21 of them as main author; cumulative impact factor of 72.59.) • Hirsch index (h-index): 11 • Member in Society of Chemistry in Romania • Personal link from the brainmap platform: https://www.brainmap.ro/dorina-casoni • Researcher ID profile: http://www.researcherid.com/rid/B-7170-2012 • ORCID number: http://orcid.org/0000-0002-7056-8000 • Google Scholar profile: https://scholar.google.com/citations?hl=en&user=TqJUsQoAAAAJ 				
Annexes	Publication list – 2012 – 2017 – included in Annex 1				

Cluj-Napoca, 03. 12. 2021

Lecturer Dr. Dorina Casoni



Annex 1

Lecturer Dr. Dorina Casoni

Author identifiers / Identificatori autor

ResearcherID: B-7170-2012

ORCID: 0000-0002-7056-8000

Publication list / Lista de publicații

1. Cobzac S.C.A, Olah N. K., Casoni D.*, *Application of HPTLC multiwavelength imaging and color scale fingerprinting approach combined with multivariate chemometric methods for medicinal plant clustering according to their species*, **Molecules** 26 (2021) 7225.
2. Torok A.I., Levei E. A., Constantin S., Moldovan O. T., Senila M., Cadar O., Casoni D., Angyus S. B., Tanaselia C., Covaci E., Frentiu T., *Application of inductively coupled plasma spectrometric techniques and multivariate statistical analysis in the hydrogeochemical profiling of caves—case study Closani, Romania*, **Molecules** 26 (2021) 6788.
3. Simion I. M., Casoni D.*, Sârbu, C., *Multivariate color scale image analysis – Thin layer chromatography for comprehensive evaluation of complex samples fingerprint*, **Journal of Chromatography B** 1170 (2021) 122590
4. Cobzac S.C.A, Frentiu T., Balabanova B., Ruzdik N.M., Casoni D.*, *Regional pattern and characteristics of essential elements in several medicinal plants using spectrometric methods combined with multivariate statistical approaches*, **Studia UBB Chemia**, LXVI, 2 (2021) 9-22.
5. Casoni D., Badea M., Cobzac S.C.A, *Fish roe sample preparation for synthetic food dyes determination by HPTLC*, **Studia UBB Chemia**, LXVI, 2 (2021) 265-275.
6. Coman, F.-M., Leonte, D., Toma, A., Casoni, D., Vlase, L., Zaharia, V., *Heterocycles 51: Liphophilicity investigation of some thiazole chalcones and aurones by experimental and theoretical methods*, **Journal of Separation Science** 43 (2020) 2784–2793.
7. Casoni, D., Simion, I.M., Sârbu, C., *A comprehensive classification of edible oils according to their radical scavenging spectral profile evaluated by advanced chemometrics*, **Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy** 213 (2019) 204-209.
8. Simion, I.M., Casoni, D., Sârbu, C., *Classification of Romanian medicinal plant extracts according to the therapeutic effects using thin layer chromatography and robust chemometrics*, **Journal of Pharmaceutical and Biomedical Analysis** 163 (2019) 137-143.
9. Casoni, D., Badiu, R.R., Frențiu, T., *Spectrophotometric determination and assessment of potential health risk of nitrite from meat and meat products*, **Studia Universitatis Babes-Bolyai Chemia** 64 (2019) 265-277.
10. Cobzac, S.C.A., Casoni, D., Babea, M., Balabanova, B., Ruzdik, N.M., *Ultraviolet-visible (Uv-vis) spectroscopy and cluster analysis as a rapid tool for classification of medicinal plants*, **Studia Universitatis Babes-Bolyai Chemia** 64 (4) (2019) 191-203.
11. Simion, I.M., Casoni, D., Sârbu, C., *Characterization and classification of medicinal plants according to their antioxidant profile estimated by thin layer chromatography assisted by chemometric expertise*, **Journal of Liquid Chromatography and Related Technologies**, 41 (6) (2018) 342-348.

12. Dragan, O., Tomuta, I., Casoni, D., Sarbu, C., Campian, R., Frentiu, T., *Influence of Mixed Additives on the Physicochemical Properties of a 5.25% Sodium Hypochlorite Solution: An Unsupervised Multivariate Statistical Approach*, **Journal of Endodontics** 44 (2) (2018) 280-285.e3.
13. Simion, M., Cobzac, S.C.A., Casoni, D., *Image analysis approaches to improve the thin layer chromatography – Chemometric-based investigations of natural extracts*, **Studia Universitatis Babeș-Bolyai Chemia** 62 (2017) 67-80.
14. Casoni, D., Olah, N., Soran, L., Cobzac, S.C.A., *Comparison of different extraction techniques for the evaluation of polyphenols content in summer savory extracts*, **Studia Universitatis Babeș-Bolyai Chemia** 62 (2017) 45-56.
15. Casoni, D., Badea, M., Bros, I., Cobzac, S.C.A., *Investigation on image processing parameters for plate evaluation in TLC analysis of mycotoxins*, **Studia Universitatis Babeș-Bolyai Chemia** 62 (3) (2017) 89-102.
16. Casoni D., Sârbu, C., *Chromatographic approach for the evaluation of radical-scavenging activity using a new time-monitoring image analysis method*, **Journal of Planar Chromatography - Modern TLC** 29 (2016) 299-305.
17. Turdean G.L., Casoni D., Sârbu, C., *Structure–electrochemical properties correlations of some phenol derivatives investigated by electrochemical techniques*, **Journal of the Iranian Chemical Society** 13 (2016) 945-956.
18. Toma A., Leonte D., Zaharia V., Sârbu C., Casoni D., *Heterocycles 37. Lipophilicity of new polyheterocyclic schiff bases and mannich bases estimated by thin-layer chromatography and computational methods*, **Revue Roumaine de Chimie** 60 (2015) 677-687.
19. Silai I.E., Fort I.C., Casoni D., Turdean G.L., *Epinephrine detection at Pt-nanoparticles modified graphite electrode by square-wave voltammetry*, **Revue Roumaine de Chimie** 60 (2015) 689-696.
20. Sima I.A., Casoni D., Sârbu C., *Rapid screening method for the diagnosis of adrenal tumors*, **Revue Roumaine de Chimie** 59 (2014) 965-970.
21. Toma A., Hapău D., Casoni D., Zaharia V., *Heterocycles 33: Lipophilicity of a new class of thioethers estimated by Reversed-Phase Thin-Layer Chromatography and different computational methods*, **Journal of Chromatographic Science** 52 (2014) 1302-1307.
22. Caiali E., Casoni D., Ionita P., David V., Sârbu C., *Parabens lipophilicity determination with mobile phases containing low and medium hydrophobic alcohols*, **Journal of Liquid Chromatography & Related Technologies** 37 (2014) 2287–2301.
23. Cobzac, S.C., Casoni D., Sârbu C., *Lipophilicity of amine neurotransmitter precursors, metabolites and related drugs estimated on various TLC plates*, **Journal of Chromatographic Science** 52 (2014) 1095–1103.
24. Casoni D., Sima I.A., Sârbu C., *Thin-layer chromatography—an image processing method for the determination of acidic catecholamine metabolites*, **Journal of Separation Science** 37 (2014) 2675–2681.
25. Casoni D., Sârbu C., *Comprehensive evaluation of antioxidant activity: A chemometric approach using principal component analysis*, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy** 118 (2014) 343–348.
26. Fort I.C., Silai I.E., Casoni D., Turdean G. L., *Electrochemical study of isoprenaline and epinephrine at platinum-nanoparticles-chitosan modified graphite electrode*. **Studia UBB Chemia**, LVIII 4 (2013) 193-202.

27. Silai I.E. Turdean G.L., **Casoni D.**, *Electrochemical behavior of some catecholamines investigated by cyclic and square-wave voltammetry*, **Studia UBB Chemia** LVIII 4 (2013) 203-211.
28. Sima I.A., **Casoni D.**, Sârbu C., *Simultaneous determination of carbidopa and levodopa using new TLC method and a free as detection reagent*, **Journal of Liquid Chromatography & Related Technologies** 36 (2013) 2395-2404.
29. Sima I.A., **Casoni D.**, Sârbu C., *High sensitive and selective HPTLC method assisted by digital image processing for simultaneous determination of catecholamines and related drugs*, **Talanta** 114 (2013) 117-123.
30. Sârbu C., **Casoni D***, *Comprehensive evaluation of biogenic amines and related drugs antiradical activity using reactive 2,2-diphenyl-1-picrylhydrazyl (DPPH) radical*, **Central European Journal of Chemistry** 11 (2013) 679-688.
31. Cobzac S.C., **Casoni D.**, Pop D., *Tartrazine determination from mustard sample by TLC-Photodensitometry and TLC-Digital processing of images*, **Journal of Planar Chromatography - Modern TLC** 25 (2012) 542-547.
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35. Cobzac S.C., **Casoni D.**, Fazakas A.L., Sârbu C., *Determination of food synthetic dyes in powder for jelly desserts using slit-scanning densitometry and image analysis methods*, **Journal of Liquid Chromatography & Related Technologies** 35 (2012) 1423-1443. (IF = 0.606)
36. **Casoni D.**, Boldan A., Cobzac S.C., *TLC-densitometric determination of synthetic food colorants from pharmaceutical powders*, **Studia Universitatis Babeş-Bolyai, Chemia** 57(1) (2012) 83-92.
37. **Casoni D.**, Sârbu C., *Modeling of food preservatives chromatographic lipophilicity applying genetic algorithm and multiple linear regression*, **Revue Roumaine de Chimie** 56(4) (2011) 381-390.
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39. **Casoni D.**, Sârbu C., *Comparative study of different oils and fats impregnated Thin-Layer Chromatographic Layers for the amino acids lipophilicity estimation*, **Studia Universitatis Babeş-Bolyai, Chemia** LVI, 1 (2011) 45-61.
40. **Casoni D.**, Tuhutiu I.A., Sârbu C., *Simultaneous determination of parabens in pharmaceutical preparations using High-Performance Thin-Layer Chromatography and image analysis*, **Journal of Liquid Chromatography & Related Technologies** 34 (2011) 805-816.
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44. **Casoni, D.**, Sârbu, C., *The lipophilicity of parabens estimated on reverse phases chemically bonded and oil-impregnated plates and calculated using different computation methods*, **Journal of Separation Science**, 32 (14) (2009) 2377-2384.
45. **Casoni, D.**, Kot-Wasik, A., Namieśnik, J., Sârbu, C., *Lipophilicity data for some preservatives estimated by reversed-phase liquid chromatography and different computation methods*, **Journal of Chromatography A**, 1216 (12) (2009) 2456-2465.
46. Mot, A.C., Soponar, F., **Casoni, D.**, Cobzac, C.S., Sarbu, C. *Simultaneous spectrophotometric determination of some food dyes from mixture using Principal Component Regression*, **Revista de Chimie** 60 (7) (2009) 647-652.
47. Hodisan, T., **Casoni, D.**, Beldean-Galea, M.S., Cimpoi, C., *Identification and quantification of tocopherols in vegetable oils by thin-layer chromatography*, **Journal of Planar Chromatography - Modern TLC**, 21 (3) (2008) 213-215.
48. Cimpoi, C., **Casoni, D.**, Hosu, A., Miclaus, V., Hodisan, T., Damian, G. *Separation and identification of eight hydrophilic vitamins using a new TLC method and raman spectroscopy*, **Journal of Liquid Chromatography and Related Technologies**, 28 (16) (2005) 2551-2559.
49. Sârbu, C., **Casoni, D.**, Darabantu, M., Maieranu, C., *Quantitative structure - Retention and retention - Activity relationships of some 1,3-oxazolidine systems by RP-HPTLC and PCA*, **Journal of Pharmaceutical and Biomedical Analysis**, 35 (1) (2004) 213-219.
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