Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Carmen Mihaela Topală**
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E-mail	carmen.topala@upit.ro, carmen.topala@gmail.com
Nationality	Romanian
Date of birth	16 june 1966
Gender	female

Desired employment / Occupational field

Associate Professor

Work experience

Dates	September 2006 onwards
Occupation or position held	Associate Professor
Main activities and responsibilities	teaching the courses and laboratory work for the following academic disciplines Organic Chemistry and Biochemistry; scientific research of organic compounds
Name and address of employer	Faculty of Science, University of Pitesti, Romania
Type of business or sector	Education and Scientific research

Dates	March 1999- September 2006
Occupation or position held	lecturer
Main activities and responsibilities	teaching the courses and laboratory work for the following academic disciplines Organic Chemistry and Biochemistry; scientific research of organic compounds
Name and address of employer	Faculty of Science, University of Pitesti
Type of business or sector	Education and Scientific research

Dates	March 2003- September 2003
Occupation or position held	lecturer
Main activities and responsibilities	teaching the courses and laboratory work for the following academic discipline Organic Chemistry
Name and address of employer	Faculty of Chemistry, University of Bucharest
Type of business or sector	Education and Scientific research

Dates	March 1994-September 2006

Occupation or position held	assistant
Main activities and responsibilities	laboratory work for the following academic discipline Organic Chemistry
Name and address of employer	Faculty of Science, University of Pitesti
Type of business or sector	Education and Scientific research
Dates	September 1992 – March 1994
Occupation or position held	High school teacher
Main activities and responsibilities	Teaching chemistry, biology
Name and address of employer	Economic High School Pitesti
Type of business or sector	Education

Education and training

Dates	September 1996- May 2006
Title of qualification awarded	PhD. Thesis Organic Chemistry
Principal subjects/occupational skills covered	Synthesis of new steroid derivatives with nitrogen and sulfur
Name and type of organisation providing education and training	University of Bucharest, Faculty of Chemistry
Level in national or international classification	ISCED 6
Dates	June 1992
Title of qualification awarded	Bachelor of Science
Principal subjects/occupational skills covered	Organic Chemistry
Name and type of organisation providing education and training	University of Bucharest, Faculty of Chemistry
Level in national or international classification	ISCED 5

Personal skills and competences

Evaluator The Romanian Agency for Quality Assurance in Higher Education (ARACIS)
Training „Strategic Planning for University Leaders", Bucuresti 2010

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
Language English	B1	B1	B1	B1	B1

(*) Common European Framework of Reference for Languages

Social skills and competences	Responsibility, Teamwork skills, communication skills, negotiations
Organisational skills and competences	Problem identification capacity, problem solving capacity, Systemic thinking, research and planning skills.
Technical skills and competences	Computer aided design, modelling, simulation
Computer skills and competences	Microsoft Office (Word, Excel, Power Point), ISIS DRAW, CHEM DRAW, CHEM ChemSketch - ACD/Labs FTIR analysiss SPECTRA MANAGER
Artistic skills and competences	

Other skills and competences	Hoby: painting, bridge, Sports skiing
Driving licence	B category
Additional information	Publications: 45 ISI scientific papers, 15 conferences, 11 research projects, 7 student textbooks **Professional Affiliation:** Romanian Chemistry Society (SChR) – 2005 onwards; treasurer Arges subsidiary – SChR 2006- 2011; secretary- treasurer Arges subsidiary – SChR 2010 onwards
Annexes	List of publications

Publications (selections)

A. Books

1. C. Topală, Bazele Chimiei Organice, Ed. Universităţii din Piteşti, 2010, 261p. ISBN: 987-606-560-174-1
2. C. Topală, Chimie organica. Functiuni simple - note de curs, 2010, 120 pag. ISBN 978-606-560-136-9
3. C. Topală, Biochimie medicală, Ed. Universitatii din Pitesti, 2009, 135 p, ISBN: 978-973-690-835-4
4. C.Topală, S. Anghel, Compuşi organici volatili, Abordări teoretice, tehnice, legislative, Ed. Universitatii din Pitesti, 2009, 125p, ISBN: 978-973-690-876-7
5. C. Topala, Biochimie ecologica, Ed. Universitatii din Pitesti, 2007, 208 p, ISBN: 978-973-690-714-2

B. Papers

1. C. M. Topală, L. D. Tătaru, ATR-FTIR Study Of Thyme And Rosemary Oils Extracted By Supercritical Carbon Dioxide, Rev. Chim.(Bucharest), 2016, 67(5), 842-846
2. L.E. Vîjan, C. M. Topală, Study of Ribavirin - Nucleic Acids Interaction, Chemical Engineering Communications, 2016, 203,(12), 1562-1571, 2016, 1562-1571, DOI: 10.1080/00986445.2016.1153469
3. M. V. Neacșu, G. Ioniță, C. Topală, E. Oprea, V. Tecuceanu, I. Matei, Poly(ethylene glycol)/b-cyclodextrin covalent gel networks: host matrices for studying radical processes in plant extract–riboflavin systems following UV irradiation, Chem. Pap., 2016, DOI 10.1007/s11696-016-0047-x
4. C.M. Topală, L.D. Tătaru, Infrared Spectra of Green Arabica Coffee Extraction using Supercritical Carbon Dioxide and Soxhlet Technique, Rev. Chim.(Bucharest), 2015, 66(8), 1128-1131
5. C.M. Topală, Temperature Effects on the FTIR Spectra of Ribavirin, Rev. Chim.(Bucharest), 2013, 64(3)
6. C.M. Topală, Temperature Effect on the FTIR Spectra of Tyrosine Derivatives, Rev. Chim.(Bucharest), 2012, 63(11), 1096-1098
7. C. Topala, E. Dumitru, C. Draghici, Spectral Study of Some Cholesteryl Carbamates, Rev. Chim. (Bucuresti), 2010, 61, 6, 557-562
8. C. Topala, E. Dumitru, C. Draghici, Synthesis of new cholesteryl butyrates, Rev. Chim. (Bucuresti), 2009, 60(12),1306-1308
9. C. M. Topală, S. Anghel, Temperature Effects on the FTIR Spectra of nematic Liquid Crystals, Annals. Food Science and Technology, 2010, vol. II (2), 162-165
10. C. Topala, S. Anghel, Studies on ATR spectra of mesogenic cholesteryl carbamates, Optoelectronics and Advanced Materials – RC, 2009, 3(11), 1213-1216
11. C. Topală, L. Vîjan, The Characterizing of the Interaction of Amphotericin B with Cholesteryl Esters, Journal of Molecular Liquids, 2009, 147(1-2), 135-138
12. L.E. Vijan, C. Topală, C. Drăghici, M. Conci, The Interaction of Amphotericin B with Cholesteryl Trifluoromethylphenyl-carbamate, Rev. Chim. (Bucuresti), 2009, 60(2), 142-146
13. C. Topala, S. Anghel, Studies of ATR Spectra of Phenoxyphenylcholesteryl Carbamates, Annals. Food Science and Technology, 2009, 346-350
14. L. Vîjan, C. Topala, B. Oprescu, S. Anghel, Spectral study of cholesteryl linoleate – amphotericin B interaction and behaviour of cholesteryl esters in electric field, Optoelectronics and Advanced Materials – RC, 2008, 2(9), 582-586
15. C. Topală, S. Anghel, B. Oprescu, G. Iacobescu, Optical method for studying phase transitions of thermotropic mesogenous substances, Optoelectronics and Advanced Materials – RC, 2008, 2(8), 482-487

16. L. E. Vîjan, C. Topală, Spectral Study of the Amphotericin B – cholesteryl Linoleate Interaction, Rev. Chim, 2008, 59(7), 756-758
17. L.E. Vîjan, C. Topală, Characterizing of the interaction of Amphotericin B with Cholesteryl Trifluoromethylphenyl-Carbamate by UV-visible Spectroscopy, Rev. Chim., 2008, 59(3), 297-299
18. C. Topala, G. Iacobescu, B. Oprescu, C. Ducu, Optical and Thermo-electrical Effects in Newly Synthesised Cholesteric Compounds, Material Science and Engineering C, Elsevier 2007, 27, 1171-1173
19. C. Topală, Benedict Oprescu, The Behaviour of the Simple Lipides in an Electrical Field", Rev. Chim. (Bucuresti), 2006, 57(4), 344-346
20. C. Rosu, G. Iacobescu, C. Motoc, C. Topala, Thermally stimulated depolarization currents in a new cholesteric liquid crystal, Modern Physics Letters B , 2006, 20(13), 777-785
21. C. Topala, I. Baviu, C. Paraschivescu, C. Draghici, New derivatives of N-acetyl-L-tyrosine, Rev. Chim. (Bucuresti), 2005, 56(4), 415-417
22. C. Topala, B. Oprescu, E. Oprea, Study of the Salvia officinalis L. vegetable extracts behaviour in electrical field, Rev. Chim. (Bucuresti), 2005, 56(3), 258-261
23. C. Topala, V. Meltzer, C. Draghici, Steryl carbamates mesogens with a trifluoromethylphenyl moiety, Rev. Chim. (Bucuresti), 2005, 56(2), 125-129
24. C. Topala, M.T. Caproiu, C. Draghici, Cholesteryl derivatives with a sulfonyl moiety, Arkivoc, 2005, 10, 63-70
25. B. Oprescu, C. Topala, Instabilities of biological cells induced by generating some ionic substances within them, Rev. Chim. (Bucuresti), 2004, 55(7), 550-554
26. B. Oprescu, C. Topala, Lipides behavior in electric field. II. Mesogeneous sterides and glycerol mixtures, Rev. Chim. (Bucuresti), 2004, 55(5), 341-345
27. B. Oprescu, C. Topala, The lipids behaviour in electrical field. I. Fatty acids, cholesterol and glycerol mixtures, Rev. Chim. (Bucuresti), 2004, 55(2), 112-117
28. B. Oprescu, C. Topala, 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, Rev. Chim. (Bucuresti), 2003, 54(9), 739-742
29. C. Topala, C. Baciu, V. Meltzer, C. Ionita, C. Draghici, The characterization of some fluorophenyl-cholesterylcarbamates and their interaction, with cyclodextrines, Rev. Chim. (Bucuresti), 2003, 54(5), 402-405
30. V. Meltzer, C. Topala, E. Pincu, Mesomorphic properties of phenoxiphenyl carbamates, Rev. Roum. Chim., 2002, 47(8-9), 839-841
31. C. Topala, I. Baciu, V. Meltzer, C. Draghici, Substituted fitosterols with 5-nytrobenzo[B]tiophensulphone at C-3, Rev. Chim. (Bucuresti), 2002, 53(7), 519-522
32. G. Ionita, C. Topala, V. Meltzer, E. Pincu, Study concerning the formation of some inclusion complexes of 3,4-dichlorophenil steroid carbamates with cyclodextrines, Rev. Chim. (Bucuresti), 2001, 52(12), 753-757
33. C. Topala, G. Ionita, V. Meltzer, C. Draghici, Inclusion complex of steroidal heterocyclic compounds with cyclodextrins in aqueous solution and in the solid state, Arkivoc, 2002, 2, 87-96

Research contracts (selections)

1. Optimizarea proceselor de devirozare la plante horticole prin chimioterapie in vitro şi electroterapie, în scopul încadrării în cerinţele ue privind calitatea mediului şi a produselor agroalimentare (SANOPLANT) , (PCCA)- tip 1, 104/2012
2. Advanced technologies and materials for optoelectronics (OPTOMATEH), PN II-Capacities 126cp/I din 14.09.2007
3. Implementation and adaptation of environmental technologies in cultural cherry varieties and rootstocks on local values, environmentally sound and sustainable development, PNCDI2-Program 4, 2770/2008
4. Recovery of biomass and agricultural residues superior by new technical solutions and product development of an integrated system for soil fertilization, HIFER-biomass, PN II 21-013/18.09.2007
5. Heteroaromatic compounds stabilized by substitution with azulenes. synthesis, study of physical-chemical and electrochemical properties, used in technique of nonlinear transmission of light (NLO), Cex 05-D11-20/05.10.2005
6. Synthesis and study of the thermodynamic properties of liquid crystal substances with applications in science and technology fields, Grant of the Romanian Academy, GAR 55/2005