



Curriculum vitae

Personal information

First name/ Surname **Cristina Elena Stavarache**
Address Bucharest, Romania
Nationality Romanian
Gender Female

Desired employment / Occupational field

Work experience

Date	December 2018 - present
Occupation or position held	Research assistant
Name and address of employer	Research Center for Advanced Materials, Products and Processes „CAMPUS” , Bucharest
Type of business or sector	Research
Date	1 April 2012 - present
Occupation or position held	Scientific researcher
Main activities and responsibilities	Structure determination and analysis of liquid and lyophilized complex mixtures based on NMR spectroscopy.
Name and address of employer	Romanian Academy, Center of Organic Chemistry „C.D. Nenitzescu” , Bucharest
Type of business or sector	Research
Date	13 September 2011 – 31 March 2012
Occupation or position held	Analytical chemist in research and development department
Name and address of employer	Sindan Pharma an Actavis Company, Bucharest
Type of business or sector	Pharma Industry
Date	1 September 2008 – 13 September 2011
Occupation or position held	Chemist Engineer and Scientific researcher
Main activities and responsibilities	Running HPLC, GC and Atomic Spectrometers methods for analyzing food samples for RENAR accreditation.
Name and address of employer	ICA Research & Development SRL, Bucharest
Type of business or sector	Food research institute; physico – chemical analysis for food industry

Education and training

Dates	1 October 2015 – present
Title of qualification awarded	PhD student
Name and type of organization providing education and training	University of Politehnica Bucharest, Faculty of Applied Chemistry and Materials Science Specialization: “Chemical engineering in the Doctoral School of Applied Chemistry and Materials Science.”

Dates 1 September 2008 – 30 June 2010
 Title of qualification awarded Master degree
 Name and type of organization providing education and training University of Bucharest, Faculty of Chemistry, Analytical Chemistry Department, Specialization: Optimization of analytical control and quality assurance

Dates 1 October 2003 – 24 June 2008
 Title of qualification awarded Diplomat Engineer - Chemical Engineering

Dates 15 September 1999 – 15 June 2003
 Name and type of organization providing education and training University of Politehnica Bucharest, Faculty of Applied Chemistry and Materials Science Specialization: Food Chemistry

Dates 15 September 1999 – 15 June 2003
 Title of qualification awarded Bacalaureate
 Name and type of organization providing education and training "Marin Preda" High School, Bucharest, Specialization: Natural Sciences

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment
European level ()*

English

Spanish

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken interaction		Listening	
C1	Experienced User	C1	Experienced User	B2	Experienced user	B2	Independent user	B2	Independent user
B1	Independent User	B1	Independent User	A1	Elementary User	A1	Elementary User	A1	Elementary User

(*) *Common European Framework of Reference for Languages*

Technical skills and competences
 Chemistry laboratory equipment :
 Bruker NMR 300MHz, 500MHz (TopSpin and IconNMR; MestReNova), FT-IR (Bruker);
 GC-FDL and ECD detectors (Varian) ;
 HPLC (AgilentChemStation 1200, Varian, Waters Empower, Dionex Chromeleon);
 UV/VIS Spectrometers (Analytik Jena-Specord);
 Atomic Spectrometers (Analytik Jena – WinAAS)

Additional information

Courses:

9-11.02.2011- **FiaTest Course** – „Evaluation of measurement uncertainty in testing laboratories”

Published articles

Mihaela Balan, Alina Nicolescu, **Cristina Stavarache**, Mihaela Ciobanu, Calin Deleanu. Fast NMR juice identification based on sugars and other plant metabolites from fruits. *Rev. Roum. Chim.*, **2013**, 58(2-3), 175-182

Gabriela Liliana Ailiesei, Mihaela Ciobanu, Mihaela Balan, **Cristina Stavarache**, Lucica Barbes, Alina Nicolescu, Calin Deleanu. NMR detected metabolites in complex natural fluids. Quinic acid in apple juice. *Ovidius University Annals of Chemistry*, **2015**, Volume 26, Number 2, pp. 51- 56,

Ahmed J. Shakir, Mihaela Florea, Daniela C. Culita, Gabriela Ionita, Corneliu Ghica, **Cristina Stavarache**, Anamaria Hanganu, Petre Ionita. Exploring porous nanosilica-TEMPO as heterogeneous aerobic oxidation catalyst: the influence of supported gold clusters. *J Porous Mater* , **2016**, 23, 247-254 .

Maria Maganu, Nicoleta Chira, **Cristina Stavarache**, Corina Andronescu, Anca Anastasiu. Assessment of Maleinization Degree of Linseed Oil from Spectral Data. *Revista de chimie*, **2016**, 67, Number 2.

Density functional theory molecular modeling, chemical synthesis, and antimicrobial behaviour of selected benzimidazole derivatives. Maria Marinescu, Diana Gabriela Tudorache, George Iuliu Marton, Christina-Marie Zalaru, Marcela Popa, Mariana-Carmen Chifiriuc, **Cristina-Elena Stavarache**, Catalin Constantinescu. *Journal of Molecular Structure*, 1130, **2017**, 463-471.

Cristina Stavarache, Anamaria Hanganu, Anca Paun, Codruta Paraschivescu, Mihaela Matache, Paul R. Vasos, Long-lived states detect interactions between small molecules and diamagnetic metal ions. *Journal of Magnetic Resonance*, 284, **2017**, 15-19.

Viorel Nastasa, **Cristina Stavarache**, Anamaria Hanganu, Adina Coroaba, Alina Nicolescu, Calin Deleanu, Aude Sadet, Paul R. Vasos, Hyperpolarised NMR to follow water proton transport through membrane channels via exchange with biomolecules, *Faraday Discuss.*, 209, **2018**, 67-82.

Alexandru Ciocarlan, Ion Dragalin, Aculina Aricu, Nina Ciocarlan, **Cristina Stavarache**, Mariana Deleanu, Chromatographic analysis of Silybum Marianum (L.) gaertn. Fatty oil., *Chemistry Journal of Moldova. General, Industrial an Ecological Chemistry*, 13(1), **2018**, 63-68.

Sorin Mocanu, Gabriela Ionita, Sorana Ionescu, Victorita Tecuceanu, Mirela Enache, Anca Ruxandra Leonties, **Cristina Stavarache**, Iulia Matei. New environment-sensitive bis-dansyl molecular probes bearing alkyl diamine linkers: emissive features and interaction with cyclodextrins. *Chemical Physics Letters*; **2018**.

Anca G. Coman, **Cristina Stavarache**, Anca Păun, Codruța C. Popescu, Niculina D. Hădade, Petre Ionita, Mihaela Matache. A novel profluorescent paramagnetic diaza-crown ether: synthesis, characterization and alkaline metal-ion complexation, *RSC Adv.*, 9, **2019**, 6078-6083.