

Europass Curriculum Vitae



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Personal information						
First name(s) / Surname(s)	Cristian Sorin SILVESTRU					
Address(es)	s) Str. Nicolae Titulescu Nr. 18, Bl. P8, Ap. 71, 400420 Cluj-Napoca, ROMANIA					
Telephone(s)	0040-264-593833 / int. 5736	Mobile:	0040-744-579759			
Fax(es)	0040-264-590818					
E-mail	cristian.silvestru@ubbcluj.ro; cristi@chem.ubbcluj.ro					
Nationality	Romanian					
Date of birth	08.12.1955					
Gender	Μ					
Desired employment / Occupational field	-					
Work experience						
Dates	1995-present					
Occupation or position held	Professor					
Main activities and responsibilities	Lectures, seminars, research in inorganic and organometallic chemistry					
Name and address of employer	Babeş-Bolyai University, M. Kogălniceanu no. 1, Cluj-Napoca, RO-400028					
Type of business or sector	Teaching and research					
Dates	1993-1995					
Occupation or position held	Associate Professor (reader)					
Main activities and responsibilities	Lectures, seminars and practical works, research in inc	-				
Name and address of employer	Babeş-Bolyai University, M. Kogălniceanu no. 1, Cluj-N	Japoca, RC	)-400028			
Type of business or sector	Teaching and research					
Dates	1990-1993					
Occupation or position held	Lecturer					
Main activities and responsibilities						
Name and address of employer	Babeş-Bolyai University, M. Kogălniceanu no. 1, Cluj-Napoca, RO-400028					
Type of business or sector	Teaching and research					
Dates	1989-1990					
Occupation or position held	Scientific researcher in chemistry					
Main activities and responsibilities	Research in inorganic and organometallic chemistry					
Name and address of employer	Babeş-Bolyai University, M. Kogălniceanu no. 1, Cluj-N	lapoca, RC	0-400028			
Type of business or sector	Research					

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Dates	1982-1989			
Occupation or position held	Scientific researcher in chemistry			
Main activities and responsibilities	Research on basis of contracts with industrial companies			
Name and address of employer	Institute for Chemical and Biochemical Chemistry, Cluj-Napoca Branch, Babeş-Bolyai University, M. Kogălniceanu no. 1, Cluj-Napoca, RO-400028			
Type of business or sector	Research			
Dates	1980-1982			
Occupation or position held	Chemist			
Main activities and responsibilities	Laboratory analyses			
Name and address of employer	"Aghireş" Mining company, Aghireş, Cluj county			
Type of business or sector	Refractory sand and kaolin production, laboratory analyses			
Education and training				
Dates	Oct. 1985 – Apr. 1990			
Title of qualification awarded	PhD in Chemistry			
Principal subjects/occupational skills covered	Inorganic and organometallic chemistry			
Name and type of organization providing education and training	Babeş–Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania			
Level in national or international classification	6			
Dates	Sept. 1979 – July 1980			
Title of qualification awarded	MSc in Inorganic Chemistry			
Principal subjects/occupational skills covered	Inorganic and organometallic chemistry			
Name and type of organization providing education and training	Babeş–Bolyai University, Faculty of Chemistry and Chemical Engineering, Inorganic Chemistry Department, Cluj-Napoca, Romania			
Level in national or international classification	6			
Dates	Sept. 1975 – July 1979			
Title of qualification awarded	BSc in Chemistry			
Principal subjects/occupational skills covered	Chemistry			
Name and type of organization providing education and training	Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania			
Level in national or international classification	5			
Personal skills and competences	<ul> <li>Research stays at:</li> <li>Bremen Universität (Germany) (visiting professor – 1993, 3 months)</li> <li>Vrije Universiteit Brussel (Belgium) (EC COST grant – 1993, 2 months)</li> <li>Instituto de Quimica, Universidad Nacional Autonoma de Mexico (Mexico) (visiting professor – 1993-1995, 2 years)</li> <li>Oxford University (UK) (grant for International Journal Authors, Royal Society of Chemistry – 1999, 2 months)</li> <li>Bremen Universität (Germany) (DAAD fellowship – 2000, 2 months)</li> <li>Michigan State University (USA) (visiting research associate – 2000, 5 months)</li> <li>Universidad de Zaragoza (Spain) (NATO fellowship – 2004, 9 months)</li> </ul>			

#### Invited conferences at other Universities:

- Universidad Nacional Autonoma de Mexico, Ciudad de Mexico, D.F. (Mexico) (1994), Universidad Automoma de Puebla (Mexico) (1994), Centro de Investigacion y de Estudios Avansados, Instituto Politecnico Nacional, Ciudad de Mexico, D.F. (Mexico) (1995), Technische Universität Braunschweig (Germania) (1996), Universidad de Zaragoza (Spania) (2002, 2009), Universidad de la Rioja, Logrogno (Spania) (2002), Heidelberg Universität (Germania) (2006), Università degli studi di Cagliari (Italia) (2006, 2009), Bremen Universität (Germania) (2008, 2013), Jacobs University, Bremen (Germania) (2009, 2013, 2016), University of Ioannina (Grecia) (2010), Grand Valley State University, Allendale, MI (SUA) (2014), Brooklyn College, City University of New York (SUA) (2015), Clarkson University, Postdam, NY (SUA) (2015), University of Debrecen (Hungary) (2018), Université d'Angers (France) (2018), University of Calgary (Canada) (2018), Université de Rennes 1 (France) (2019), Technische Universität Chemnitz (Germania) (2019).
- Series of invited conferences in Germany (2010): Technische Universität Chemnitz; Ludwig-Maximilians-Universität München; GAMBRINUS Lecture, awarded by the Technische Universität Dortmund; Essen-Duisburg Universität.

#### Invited lectures (selection):

- "Recent Developments in Organometallic Chemistry of Hypervalent Group 15 (Sb, Bi) Compounds" invited lecture presented at Heidelberg Universität (Germany), Universita di Cagliari (Italy) (2006).
- "Organopnicogen Compounds (M = Sb, Bi) as Ligands in Transition Metal Chemistry" invited lecture presented at Bremen Universität (Germany) (2008).
- "Recent Results in the Hypervalent Organometallic Chemistry Organopnicogen Compounds (M = Sb, Bi) as Ligands in Transition Metal Chemistry" invited lecture presented at Universidad de Zaragoza (Spain), Jacobs University (Germany), Universita di Cagliari (Italy) (2009); University of Ioannina (Greece), Technische Universität Chemnitz, Essen-Duisburg Universität, GAMBRINUS Lecture at Technische Universität Dortmund (Germany) (2010).
- "Hypercoordinated Organopnicogen (M = Sb, Bi) Compounds Monomeric Species, Oligomers and Supramolecular Networks" – invited lecture presented at Ludwig-Maximilians-Universität München (Germany) (2010).
- "Main Group Organometallic Chemistry Unusual Species and Metalloligands" invited lecture presented at Grand Valley State University, Allendale, MI (2014), Brooklyn College, City University of New York (USA) (2015).
- "Chemistry and Chemical Engineering in Romania Teaching and Research" invited lecture presented at Clarkson University, Postdam, NY (USA) (2015)
- "Organometallic Compounds as Building Blocks for Supramolecular Architectures" invited lecture presented at Jacobs University (Germany) (2016)
- "Main Group Organometallics as Building Blocks for Coordination Polymers" invited lecture at Universite d'Angers, Angers (France) (2018).
- "Main Group Organometallics as Building Blocks for Coordination Polymers and Supramolecular Architectures" – invited lecture at University of Calgary, Calgary (Canada), University of Debrecen, Debrecen (Hungary) (2018), Université de Rennes 1 (France) (2019).

#### Romanian

Mother tongue(s) Other language(s) Self-assessment European level (\*) English Spanish

### English, Spanish, French

essment	Understanding		Speaking			Writing		
level (*)		Listening	Reading	Sp	ooken interaction	Sp	ooken production	
English		C1	C2		C2		C1	C1
Spanish		C1	C2		C2		C2	B2
French		C1	C2		B2		B2	A2
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(\*) Common European Framework of Reference for Languages

Social skills and competences

Excellent and very good relationship with the other members of the teaching and research staff of the Faculty and University, with colleagues from other research groups I collaborated abroad or with the members (undergraduate students, MSc and PhD students, or researchers) of my research group

Organisational skills and competences	<ul> <li>PhD adviser from 1999 (20 thesis defended to obtain the PhD degree)</li> <li>Co-director (with Prof. Dr. Ion Grosu) of the SUPRAMOLECULAR ORGANIC AND ORGANOMETALLIC CHEMISTRY CENTRE – SOOMCC (see WEB pages: http://www.chem.ubbcluj.ro/~ccsoom/index.html );</li> </ul>
	<ul> <li>Coordinator of the program dedicated to the foundation of the NATIONAL CENTRE FOR X-RAY DIFFRACTOMETRY (Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University, Cluj-Napoca), based on a MURC (Multi-User Research Centre - 1998-2001) grant offered by the World Bank through the Romanian Minister of Education and Research</li> </ul>
	<ul> <li>Coordinator of the activity on the basis of which 3 research labs were fully equipped to allow researches in organometallic synthesis, including works with air- and moisture-sensitive compounds, as well as other 2 teaching labs designed for inorganic, coordination and organometallic chemistry (see WEB page: <u>http://www.chem.ubbcluj.ro/~ccsoom/organometallic/index.html</u>)</li> </ul>
	Management Experience:
	<ul> <li>Co-director of the project "<i>Hypervalenz</i>" (with Prof. Dr. Hans J. Breunig, Bremen Universität, Germany), financed by Deutsches Forschungsgemeinschaft (2001 – 2003)</li> <li>Director of several multi-annual research projects obtained by competition through the National University Research Council, including World Bank grants, Romanian Academy, National Authority for Scientific Research, in the period 1995 – 2021</li> <li>Representative (together with Prof. Dr. Vasile Pârvulescu) of Romania for Action CA15106 - <i>"CHAOS – C-H Activation in Organic Synthesis</i>" (2016-2019) within European Cooperation Program</li> </ul>
	<ul> <li>"CHAOS - C-H Activation in Organic Synthesis" (2016-2019) within European Cooperation Program for Scientific and Technical Research (COST)</li> <li>Director and coordinator of the project "Specific Techniques in the Investigation of Organometallic Compounds. Professional education and implementation strategies" (RO/2004/PL93192/S), within the LEONARDO DA VINCI program of EU (2005-2006)</li> <li>Director of the NATIONAL CENTRE FOR X-RAY DIFFRACTOMETRY (Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Cluj-Napoca) (2001 – present)</li> </ul>
	<ul> <li>Vice-Dean of the Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University (1996 - 2000)</li> </ul>
	<ul> <li>Director of the Inorganic Chemistry Department, Faculty of Chemistry and Chemical Engineering (2011 - 2012)</li> <li>Director of the Chemistry Department, Faculty of Chemistry and Chemical Engineering (2012 -</li> </ul>
	present)
	<ul> <li>Member of the Working Group "University Administration and Finance" - UNIVERSITY PROJECT (March 10-14, 1997), at SALZBURG SEMINAR (Austria)</li> <li>Member of the National Committee of the National Olympiad for Chemistry (2013 - present)</li> </ul>
	<ul> <li>Member of the Committee for Mathematics and Life Sciences – The National University Research Council of Romania (2006 - 2010)</li> </ul>
	<ul> <li>President of the National Committee for Chemistry and Chemical Engineering / Panel 1 – Mathematics and Natural Sciences - CNATDCU (2011 – 2012)</li> </ul>
	<ul> <li>Member of the National Committee for Chemistry / Panel 1 – Mathematics and Natural Sciences - CNATDCU (2016 - present)</li> </ul>
	<ul> <li>President of the National Committee for Chemistry (2020 - present) and member of the Panel 1 – Mathematics and Natural Sciences - CNATDCU (2020 - present)</li> <li>Representative of Romanian Chemical Society in the Division of Organometallic Chemistry of European Chemical Sciences - EuCheMS (2016 - present)</li> </ul>
Technical skills and competences	Research interests:
	<b>Coordination and Organometallic Chemistry of Main Group Metals and Metalloids</b> - synthesis and structural characterization in solution and solid state as well as investigation of biological properties and applications (catalysis, CO <sub>2</sub> activation, material precursors):
	<ul> <li>(i) antitumor activity of Main Group organometallic compounds (e.g. tin, antimony);</li> <li>(ii) organophosphorus(V) compounds as ligands in coordination chemistry of Main Group and transition metals;</li> </ul>
	<ul> <li>(iii) hypervalent [hypercoordinated] organometallic Main Group compounds containing organic groups with one or two pendant arms;</li> <li>(iv) supramolecular organometallic chemistry.</li> </ul>

Technical skills and competences	Publications:         2 books (co-author Prof. Dr. lonel         9 book chapters         256 scientific articles (214 in foreig papers in ISI journals)         Hirsch index = 36	gn specialized journals, 42 in national journals – more than 246 Sum of the Times Cited = 4401 Sum of the Times Cited without self-citations = 3525 (Web of Science – Clarivate Analytics – October 27, 2022)
Technical skills and competences	<ul> <li>Regional editor for Organometallic C Journal of Chemistry) (http://www.de</li> <li>member of the Editorial Board of Ret board )</li> <li>member of the Editorial Board of Stu (http://chem.ubbcluj.ro/~studiachemi</li> <li>Referee for Coordination Chemistry Re European Journal of Medicinal Chemiss Organometallic Chemistry; Journal of II Inorganic Chemistry; CrystEngComm; Organometallic Chemistry; Polyhedron Chemistry, etc.</li> <li>Experience in thesis/projects for und</li> <li>Coordinator of the research activity of Turcia, with a NATO fellowship - 200</li> <li>Coordinator of the research activity of within research stays financed throug Containing Organometallic Compu 2007)</li> <li>Coordinator of the activity of several during research stays financed throug Containing Organometallic Compu 2007)</li> <li>Coordinator of the activity of several during research stays financed throug Containing Organometallic Compu 2007)</li> <li>Coordinator of the activity of several during research stays financed throug Containing Organometallic Compu 2007)</li> <li>Coordinator of the activity of several during research stays financed throug Containing Organometallic Compu 2007)</li> <li>Coordinator of the activity of several during research stays financed throug Containing Organometallic Compu 2007)</li> <li>Coordinator of the activity of several during research stays financed throug Containing Organometallic Compu 2007)</li> <li>Coordinator of the activity of several during research stays financed throug</li> <li>Erik MICHAEL (2011) - Techni Lucien BLANCHARD (2016), W ROSSET (2021) – University F University, Bremen (GERMAN Science and Technology (VIET degli studi di Cagliari (ITALY),</li> <li>Drd. Ralf KATHER (2014) - Bre Lutz MERTENS (2015) - Techni (2015) - Jacobs University, Bre</li> <li>Dr. John BENDER (Fullbright f (USA)</li> <li>referee for the PhD theses defended Eduardo FERNANDEZ, Prof. José Ma PUELLES GONZALES (2009 - PhD Elena OLMOS) - Uni</li></ul>	<pre>rganics (https://www.mdpi.com/journal/inorganics/editors ) themistry at Open Chemistry (formerly Central European agruyter.com/view/i/chem?rskey=AVIgGn&amp;result=2 ) vue Roumaine de Chimie (http://revroum.getion.ro/editorial- idia Universitatis Babes-Bolyai, Seria Chemia ia() eviews; Chemical Communications; Inorganic Chemistry; stry; Dalton Transactions; Organometallics; Applied norganic Biochemistry; RSC Advances; European Journal of Chemistry (MDPI); Inorganica Chimica Acta; Journal of chemistry (MDPI); Inorganica Chimica Acta; Journal of r; Inorganic Chemistry Communications; Main Group Metal dergraduate/PhD/postdocs (including foreign) students: of four postdocs (one of them from abroad - Dr. Sevil Irisli, 14) of several foreign PhD students (Germany, Spain, Greece) gh the project "Homo and Hetero Metal-Metal Bond- ounds - HOHEORGMET" [Contract nr. 19 / 2006) (2006- foreign undergraduate and PhD students as well as postdocs ugh research projects, ERASMUS or Fullbright fellowships: ische Universität Chemnitz (GERMANY); Frederic DUX (2015), /irginie ROCHAT (2017), Alain HIRSCHI (2018), ), Sylvain Fribourg (SWITZERLAND); Radu ANTON (2015) - Jacobs Y); Ho Anh TAI, Ngo Viet CUONG (2016) - Hanoi University of INAM); Andrea FARRIS, Laura MARONGIU (2017) - Universtà Louise ROGÉ – Università Chemnitz (GERMANY); Drd. Peng YANG men (GERMANY) iellowship - 2013) - Grand Valley State University, Allendale I by Manuel MONTIEL ARGAIZ (2006 - PhD advisors: Prof. Aria LOPEZ de LUZURIAGA, Prof. Miguel MONGE), Raquel C. advisors: Prof. José Maria LOPEZ de LUZURIAGA, Prof. Rioja, Logrogno (SPAIN), Lourdes ORTEGO CANAVERAS LAGUNA, Prof. Dolores VILLACAMPA), Sara MONTANEL Dolores VILLACAMPA, Prof. Antonio LAGUNA) - Universidad Kai-Yao WANG (2016 - PhD advisor: Prof. Universidad Kai-Yao WANG (2016 - PhD advisor: Prof. WY), Paranthaman VIJAYAN (2016 - PhD advisor: Prof.</pre>

	<ul> <li>external evaluator of the PhD theses submitted for "Doctor Europeo" title by the PhD students Jessica CAMARA CHUECA (2011 - PhD advisor: Prof. Antonio LAGUNA, Prof. Carmen BLANCO), Helen GOITIA SEMECO (2011 - PhD advisors: Dr. M. Concepcion GIMENO, Prof. Antonio LAGUNA), Renso Raul VISBAL ACEVEDO (2015 - PhD advisors: Dr. M. Concepcion GIMENO, Prof. Antonio LAGUNA), Alice JOHNSON (2017 - PhD advisor: Dr. M. Concepcion GIMENO) - Universidad de Zaragoza (SPAIN); Romina LAI (2016 - PhD advisor: Prof. Carla ARAGONI) - Universtà degli studi di Cagliari (ITALY); Rocio Donamaria SAEZ (2018 - PhD advisors: Prof. José María LOPEZ de LUZURIAGA, Prof. Elena OLMOS), Sonia Moreno INFANTES (2021 - PhD advisors: Prof. José María LOPEZ de LUZURIAGA, Prof. Elena OLMOS) - Universidad de La Rioja, Logroño (SPAIN).</li> </ul>
Computer skills and competences	MS Office, Graphics software (to a certain extent), Chemistry related software (software for various spectroscopic methods, drawing and editing software)
Other skills and competences	<ul> <li>Corresponding Member of the Romanian Academy (from 2009)</li> <li>Member of the Romanian Academy (from November 24<sup>th</sup>, 2017)</li> <li>Member of the European Academy of Sciences and Arts, Salzburg, Austria (from October 11<sup>th</sup>, 2019)</li> <li>Member of the European Academy of Sciences, A.I.S.B.L (EurASc), Brussels, Belgium (from July 13<sup>rd</sup>, 2021)</li> <li>"Gh. Spacu" Award of the Romanian Academy for studies on the antitumor properties of organometallic compounds (1992 - co-authors: Dr. Carmen Socaciu and Dr. Adela Bara)</li> <li>"Gh. Spacu" Award of the Romanian Society of Chemistry, for the whole activity in the field of chemical sciences (2011 – International Year of Chemistry)</li> <li>"Senior al Cetății" distinction, Cluj-Napoca, 2009</li> <li><i>Grant for International Journal Authors</i>, Royal Society of Chemistry (1999) provided for a visit at the Chemistry Department, Oxford University (UK) (Malcolm L. H. Green's research group)</li> <li><i>Gambrinus Fellowship</i>, Technische Universität Dotmund (Germany) (2010)</li> </ul>
Additional information	-
Annexes	Full List of publications – on request

Cluj Napoca December 27, 2022

## Acad. Cristian SILVESTRU

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