

## Europass Curriculum Vitae



### Personal information

**First name(s) / Surname(s)** **Geta CĂRĂC**  
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**Nationality** Romanian  
**Date of birth** 03.02.1957

**Desired employment** **Dunarea de Jos University of Galati://www.ugal.ro**  
**Occupational field** **Analytical Chemistry, Applied Electrochemistry, Material Science**

### Work experience

<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>1990- present</p> <p><b>Full Professor</b>            Associate Professor            Lecturer            Assistant Professor</p> <p>Teaching and research activities in fields: applied electrochemistry: micro – nanostructured advanced materials, composite coatings, metal matrix, oxides, micro and nanoparticles; analytical chemistry (conventional and nonconventional methods); chemistry and bioelectrochemical analysis for food; environmental: water and waste analysis.</p> <p>“Dunarea de Jos” University of Galati, Domneasca 47, 800008</p> <p>Higher Education Establishments</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>1981-1984; 1986-1990</p> <p>trainee chemist, laboratory chief (1982-1984); Chief Technical Quality Control office(1986-1990)</p> <p>Braila, Artificial Fibers and Papers Plant (name S.C. Dunacor S.A. Braila after 1990)</p> <p>chemistry industry</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>1980-1981; 1984-1986</p> <p>Chemistry Teacher</p> <p>Informatics Lyceum, Iasi; N. Iorga, College, Braila.</p> <p>High School</p>

### Education and training

<p>from 1990-present</p> <p>2007-present</p> <p>2000-2007</p> <p>1992-2000</p> <p>2000-2002</p> <p>1990-2000</p>	<p>employment at the Department of Chemistry, Physics and Environment (Faculty of Sciences and Environment) „Dunarea de Jos” University of Galati; Romania (<a href="http://www.ugal.ro">http://www.ugal.ro</a>)</p> <p>Full Professor</p> <p>Associate Professor</p> <p>Assistant Professor (Lecturer)</p> <p>Associate Professor Ph. D. student</p>
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December 1999- March 1992 Ph. D in Material Sciences, „Dunarea de Jos” University of Galati, RO  
 June 1981- September 1976 Licentiate in Chemistry, Iasi, RO  
 June 1976 - September 1972 Diploma of School leaving examination, “Spiru Haret”, College, Tecuci, RO

Title of qualification awarded

- **Ph.D in Material Science**
- Qualification (advanced study) in Physical-Chemistry
- Licentiate in Chemistry
- Diploma of school-leaving examination.

**Principal subjects/occupational skills covered** *Material Science: chemical and electrochemical deposition in metallic systems (metals, alloys, composites): codeposition with oxides particles: effects of the particles size (micro and nanodimension); structural aspects (SEM, AFM), material functional characteristics and mechanical properties; electrochemical processes of codeposition with ceramic particles in metallic matrix and alloys to obtain composite layers; surfaces-interface chemistry; electrochemical corrosion, biocorrosion, studies of organic compounds using UV-VIS, IR, HPLC/MS; CV, food chemistry analysis; waste and water analysis.*

Name and type of organisation providing education and training

**1992-1999:** Romania, “Dunarea de Jos” University of Galati: **Ph D Thesis in Material Science**  
**1980 – 1981 –** Romania, The Polytechnic Institute, Iasi, Faculty of Chemistry and Chemical Technology, Physical-Chemistry.  
**1980 –1985 –** Romania, The Polytechnic Institute, Iasi, Faculty of Chemistry and Chemical Technology, Chemistry.

**Personal skills and competences**

2006-2009 **Coordinator of WG2 (EU), COST Action D33 project - Chemistry, Nanoscale Electrochemical and Bio-processes (Corrosion) at Solid-aqueous Interfaces**  
 2005-present Scientific Representing of S.C. SETCAR.S.A. Braila, [www.setcar-braila.ro](http://www.setcar-braila.ro)  
 2005-2007 Manager European Excellence Centre for the Environment (Qualification PHARE RO 9706.01.02, [www.ecee.ugal.ro](http://www.ecee.ugal.ro))  
 2007-2010 Technical Manager: Competences Center: Interfaces-Tribocorrosion and Electrochemical Systems (CC-ITES), Senate decision 608/20.03.2007, [www.cc-ites.ugal.ro](http://www.cc-ites.ugal.ro).  
 2002-2009 Participation in Management Committee (MC) in COST Projects (ESF)  
 from 2002 Associate Collaborator at the S.C. SETCAR.S.A. Braila (major field: environmental)

knowledge of Windows, Microsoft Office, Chemwind, ChemDraw, Isis Draw and Internet navigation

**Other language(s)**

Self-assessment	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
European level (*)										
<b>Language</b>	En	B2	En	B2	En	B2	En	B2	En	B2
<b>Language</b>	R	B1	R	B2	R	B1	R	B1	R	B1

**Other skills and competences**

2002-Present Good experience on grants management:  
**European Commission. R D – General Expert EU** (EX2002B015093), 2012-FP7-NMP-2013-SME-7; 2009- FP7-NMP-ENV; 2004 - FP6-CRAFT.  
 2005 – present INTAS Independent Expert ID5730.  
 2004 – present CNCSIS and CEEEX (Romanian National University Research Council) Scientific Project Evaluator (included in the National Register of [Experts](http://www.mct-excelenta.ro/fileadmin/mct/Experti_2006/BAZA_EXPERTI_CEEEX_2005_literele_A_C.html)  
[http://www.mct-excelenta.ro/fileadmin/mct/Experti\\_2006/BAZA\\_EXPERTI\\_CEEEX\\_2005\\_literele\\_A\\_C.html](http://www.mct-excelenta.ro/fileadmin/mct/Experti_2006/BAZA_EXPERTI_CEEEX_2005_literele_A_C.html)  
 2001-2009 Participations on COST Actions: COST Action 520: *Biofouling and Materials*; COST Action 521: *Corrosion of steel in reinforced structures*, COST Action D19 *Chemical functionality specific to the nanometric scale*, COST Action D33: *Nanoscale Electrochemical and Bio-processes( corrosion) at Solid Aqueous Interface of Industrial Materials*, COST Action 533: *Materials for improved Wear Resistance of Total Artificial Joints*  
 2002-2009 Programme committee expert: COST Management Committee (MC) in main COST Actions D33, Action 533; Action D19.  
 from 2006 Scientific referents:  
 Corrosion Science, Surface and Coatings Technology; International Biodeterioration & Biodegradation; Journal of Applied Electrochemistry; Materials Chemistry and Physics, Journal of Alloy and Compounds; Electrochemica Acta Portugal; Arabian Journal of Chemistry; Bulgarian Chemical Communications; ZPC, Open Corrosion Journal etc.

2002-2004	Research Director of International Collaborative Project with Germany: COPBIL RO 014
2004-2006	Peer Review -PhD thesis from India (6 thesis)
June 2003	
June 2004	Summer School, Grant NATO with Tufts University (USA); "The Keys to Rapid and Cost Effective Hazardous Waste Site, Investigation and Cleanup", Galati-Romania, certification.
2011, 2008, 2005	NATO program: "Conservation and Sustainable Development of River Mouth Ecosystems, Wetlands and Lagoons", Galati-Romania, certification
2004-2009	Member Scientific conferences: Chemistry Colloids and Surfaces, International Symposium Galati-RO
	Member of Faculty of Science Council
	Team work skills.
<b>Competences in</b>	<ul style="list-style-type: none"> <li>▪ <b>analytical, electrochemical and structural analysis of compounds</b>, new materials; characterisation of advanced materials; nanostructures, nanocomposites, nanowires etc.; surfaces-interface chemistry; electrochemical corrosion, biocorrosion, studies of organic compounds using e.g. UV-VIS, IR, RMN, HPLC/MS; CV, food chemistry analysis; waste and water analysis.</li> <li>▪ <b>applied electrochemistry</b>: material functional characteristics and mechanical properties; electrochemical processes of codeposition with ceramic particles in metallic matrix and alloys to obtain composite layers; micro – nanostructured advanced materials, composite coatings, metal matrix, oxides, micro and nanoparticles; analytical chemistry (conventional and nonconventional methods).</li> <li>▪ <b>chemical and electrochemical deposition</b> (and another modern techniques) in metallic systems (metals, alloys, composites): codeposition with different dispersed phases (e.g. oxides particles, carbides, polymers): effects of the particles size (micro and nanodimensions); structural (by e.g. SEM, AFM, TEM) and mechanical characterisation (e.g. roughness, hardness).</li> </ul>
<b>Membership</b>	<ul style="list-style-type: none"> <li>- Member at the Electrochemistry International Society (from 2000– present);</li> <li>- Member al Romanian Society of Chemistry (from 1998- present);</li> <li>- Member of "European Centre of Excellence for the Environment" of „Dunarea de Jos" University of Galati,</li> <li>- Member of the Romanian Society of Biotechnology and Bioengineering (RSBB), which is affiliated to the European Federation of Biotechnology (EFB) (from 2008-present).</li> </ul>
<b>Fellowships/grants</b>	
1992 -1999	Ph. D Thesis on Materials Science: <i>Physical-Chemistry Study of the Some Composite Coatings with Lanthanide Oxides.</i>
1994: 3 months	Scholarship at Sophia Kliment Ohridski University, Faculty of Chemistry, Bulgaria
1998: 2 months	Tempus scholarship, mobility in education to Dresden Technical University, Germany
20 <sup>th</sup> July- 19 <sup>th</sup> Aug 2004	STSM in COST D19 (D19/009/03), subproject in Working Group 13.:Host's Name and Institution: P. Bonora, Universita di Trento, Italy.
18 <sup>th</sup> -29 <sup>th</sup> Feb. 2008	COST D33: ONLINE_STSM-D33-2446, Host's Name and Institution: A. Ramanavicius, Vilnius University, Lithuania
18 <sup>th</sup> -22 <sup>th</sup> Feb. 2008	Lecturer invited in "Synthesis of Nanomaterials" at International Nanotechnology School on "Nanostructured Materials for Biosensors and Medicine", Vilnius, Lithuania.
<b>Additional information</b>	<p>Prof. Dr. Andreas Bund  Technische Universität Ilmenau  Fakultät für Elektrotechnik und Informationstechnik, Institut für Werkstofftechnik  Fachgebiet Elektrochemie und Galvanotechnik II  Gustav-Kirchhoff-Straße 6 (Arrheniusbau), 98693 Ilmenau  Tel.: +49 3677 69 3107, Fax: +49 3677 69 3104  e-mail: <a href="mailto:andreas.bund@tu-ilmenau.de">andreas.bund@tu-ilmenau.de</a></p> <p>Prof. Dr. Thomas Lampke  Chemnitz University of Technology, Germany  Institute of Composite Materials and Surface Technology, Department of Composite Materials , Erfenschaleger Straße 73, 09125, Chemnitz, Germany  Fax: + 39 371 531 6179. e-mail: <a href="mailto:thomas.lampke@wsk.tu-chemnitz.de">thomas.lampke@wsk.tu-chemnitz.de</a></p> <p>Prof. Dr. Lidia Benea  Competences Center: Interfaces-Tribocorrosion and Electrochemical Systems (CC-ITES).  Faculty of Metallurgy and Materials Science.  Dunarea de Jos University of Galati, Domneasca Street no 47, 800008 Galati- Romania  Tel: +40 744 21627; e-mail: <a href="mailto:Lidia.Benea@ugal.ro">Lidia.Benea@ugal.ro</a></p>
<b>Annexes</b>	List of papers