

## CURRICULUM VITAE

<b>Personal Data</b>	
Name	<b>Viorica Domnica MUȘAT</b> (born BUJOREANU)
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E-mail(s)	<a href="mailto:viorica.musat@ugal.ro">viorica.musat@ugal.ro</a> , vio52musat@yahoo.com
Nationality	Romanian
<b>Competence fields/ Research Interest</b>	
	<ul style="list-style-type: none"> <li>• Nanotechnologies and Nanomaterials</li> <li>• Bottom-up synthesis by chemical methods from solution: sol-gel, coprecipitation, (microwave-assisted)hydro/solvothermal, chemical bath deposition, reverse-emulsion, layer by layer deposition, self-assembling, biomimetic growth</li> <li>• Oxide, hybrid and composite nanostructures: nanoparticles/quantum dots, nanowires/nanorods, nanosheets, thin films)</li> <li>• Nanostructured functional compounds and materials with dielectric, semiconductive, photoluminescent, photocatalytic or antimicrobial properties for different applications (transparent/flexible electronics, optoelectronics, photovoltaic cells, sensors, decorative/protective, prosthetics, environmental protection)</li> <li>• Chemical structure and morphological characterization. Magnetic, optical and electrical properties of compounds and materials</li> <li>• Thermal analysis, isothermal and non-isothermal kinetics in heterogeneous systems involving solid phases</li> <li>• Environmental chemistry. The quality of materials and environment</li> </ul>
<b>Professional experience</b>	
2006-present	PhD Supervisor in the field of <i>Materials Science and Engineering</i>
2001-present	Professor, "Dunărea de Jos" University of Galati
1997-2001	Associate Professor, "Dunărea de Jos" University of Galați
1986-1997	Assistant Professor, "Dunărea de Jos" University of Galați
1981-1986	Assistant, "Dunărea de Jos" University of Galați
1978-1981	Chemist, S.C. ELNAV Galați
1977-1978	Chemist, S.C. TRACTORUL Brașov
Since 1986	<b>Courses/Teaching:</b> <i>Physical chemistry, Colloidal chemistry, Ceramic materials, Composite and hybrid materials, Nanomaterials and Nanotechnologies, Multifunctional and smart materials, Materials for renewable energies (eng), Thin films fabrication, Chemistry of environment, Technical analysis of materials, Chemistry and pyrogeneration of coals</i>
<b>Education and formation</b>	
1997	PhD diploma in Chemistry, University of Bucharest
1984	Specialization in Thermal Analysis and Non-isothermal Kinetics, Faculty of chemistry/University of Bucharest
1977	Diploma of Advanced Studies in Physical chemistry/Chemical structure, Faculty of Chemistry, Polytechnic Institute of Bucharest
1976	Diploma in Chemistry, Faculty of Chemistry, Polytechnic Institute of Bucharest.

<b>Research and teaching stages abroad</b>	<ul style="list-style-type: none"> <li>• Doctoral research grant, <i>Institute de Chimie de la Matière Condensée de Bordeaux (ICMCB)-CNRS France</i> (1-30 October 1994)</li> <li>• TEMPUS individual grant, <i>University Bordeaux I, ICMCB and Centre de Recherche Paul Pascal-Pessac/CNRS</i> (October-December 1998)</li> <li>• Visit <i>Laboratoire de Structure et Réactivité des Systèmes Interfaciaux</i>, Université Pierre et Marie Curie (Paris VI) (December 1998)</li> <li>• Postdoctoral grant/NATO Senior Scientist Fellowship, <i>NOVA University of Lisbon, Department of Materials Investigation (CENIMAT)</i> (Febr.2002-Febr.2003)</li> <li>• NATO Visiting Expert (NATO priority: <i>A Rapid detection of chemical agents; IB Novel and rapid method of detection-chemical sensors</i>), <i>NOVA University/FCT/CENIMAT/I3N</i>, March 2006 (one month) and April 2007 (one month).</li> <li>• Erasmus Teaching Missions: <i>University of Bordeaux I</i> (2006, 2007), <i>NOVA University of Lisbon</i> (2007-2010, 2017), <i>Technical University of DELFT/Department of Chemistry</i> (2008), <i>University of Alghero Sardinia</i> (2009), <i>Tehcnical University of Darmstadt</i> (2010).</li> <li>• MINOS Road Show-European Tour of Nanotechnology Centers: <i>Research Center "iNano"/University of Aarhus-Denmark, IDEON Science Park Lund, Nanometer Structure Consortium/Lund University, Nanoscience Centre/University of Copenhagen, CSEM Neuchatel Switzerland and LETI/MINATEC Research Centre of CEA-Grenoble</i> (May 2008)</li> <li>• Working meetings and visits within research projects: <i>Cavendish Laboratory-University of Cambridge</i> (2010, 2011, 2013), <i>Bayer Technology Services GmbH Leverkusen</i> (March 2012), <i>VVT- Valtion Teknillinen Tutkimuskeskus (Technical Research Centre of Finland)</i> and <i>Espoo-Oulu</i> (April 2012), <i>University NOVA Lisbon</i> (September 2012), <i>Erlangen IISB-Franhofer Institute</i> (April 2013 Aprilie), <i>Promethean Ltd Nottingham</i> (September 2013), <i>Stora Enso/VTT Imatra</i> (January 2014), <i>I G CATALYSTS Ltd Clevelad</i> (September 2014).</li> </ul>
<b>Member of professional associations</b>	<ul style="list-style-type: none"> <li>• Associated researcher at <i>FCT (Fundação do Ministério de Ciência e Tecnologia)-CENIMAT/I3N Portugal</i></li> <li>• <i>Commission of Thermal Analysis and Calorimetry/Romanian Academy</i></li> <li>• <i>International Society of Thermal Analysis and Calorimetry (ICTAC)</i></li> <li>• <i>European Materials Research Society (EMRS)</i></li> <li>• <i>International Sol-Gel Society (ISGS)</i></li> <li>• <i>Romanian Chemistry Society (RCS)</i></li> </ul>
<b>Evaluation and editorial Activities</b>	<ul style="list-style-type: none"> <li>• <i>CNCSIS and UEFISCDI assessor expert/rapporteur in IDEI, CEEX, PNCDI-II and bilateral international cooperation projects</i></li> <li>• <i>ANCS assessor expert for Research institutions in Romania (ICECHIM Bucharest)</i></li> <li>• <i>Assessor expert and rapporteur in FP7-NMP (Nanotechnologies, Materials-Processing), FP7 Marie Curie and FP7-ENERGY FET (Future Emerging Technology)</i></li> <li>• <i>Expert in POSDRU project: Improve the quality of training of researchers based doctoral programs enhanced by partnerships (PhD EXPERT) Contract No: POS DRU / 21 / 1.5 / G / 19524</i></li> <li>• <i>Expert in HRD project Excellence in research in doctoral and postdoctoral exchanges(ExcelDOC), Contract No POSDRU 159 / 1.5 / S / 132 397, 2014</i></li> </ul>

	<ul style="list-style-type: none"> <li>• Scientific reviewer for ISI international journals: <i>NANO</i>, <i>Surface Coatings &amp; Technology</i>, <i>Applied Surface Science</i>, <i>Materials Chemistry and Physics B</i>, <i>Physica Status Solid (a)</i>, <i>(b)</i>, <i>Electrochemical and Solid-State Letters</i>, <i>Materials Science and Engineering B</i>, <i>Advanced Materials Forum III</i>, <i>Journal of Electrochemical Society</i>, <i>Journal of Composite Materials</i>, <i>Journal of Thermal Analysis and Calorimetry</i>, <i>Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry</i>, <i>Separation and Purification Tech.</i>, <i>J. Alloys and Compounds</i>, <i>Materials Letters</i>, etc</li> <li>• Member of scientific editorial board of <i>Annals of "Dunarea de Jos" University Galati-Fascicle IX Metallurgy and Materials Science and Corrosion and Corrosion Protection (Cluj)</i> journal</li> <li>• Co-editor of <i>Materials Science and Engineering 30 (1)</i>, 011001, including selected papers presented at E-MRS Fall Symposium K: <i>Solution-Derived Electronic-Oxide Films, Nanostructures and patterning-from Materials to Devices</i>, Warsaw 2011, ISI indexed Proceedings-IOP Conference Series</li> <li>• Co-editor of "<i>Nanotechnologies and Advanced Materials</i>" <i>Advanced Materials Publication Volume 1143</i>, doi: 10.4028 / <a href="http://www.scientific.net/">www.scientific.net/</a> AMR.1143, including the papers published at the UGAL MAT 2016 Conference</li> </ul>
<b>Personal competences- Foreign language(s)</b>	<i>English, French</i>
<b>Organizational activities</b>	<ul style="list-style-type: none"> <li>• Co-organizer of E-MRS International Symposium K: "<i>Solution-Derived Electronic-Oxide Films, Nanostructures and Patterning: from Materials to Devices</i>", Warsaw, September 2011.</li> <li>• Co-organizer of the "Romphyschem16" Galati 21-23 Sept 2016 and IX<sup>th</sup> Conference of Physical Chemistry Galati 23-25 Sept.1998, <a href="http://web.icf.ro/romphyschem">http://web.icf.ro/romphyschem</a>.</li> <li>• Initiator and organizer (editions 2013-2016) of the Scientific Conferences of the Doctoral Schools from UDJG (CSSD-UDJG), <a href="http://www.cssd-udjg.ugal.ro">www.cssd-udjg.ugal.ro</a></li> <li>• Initiator and Organizer of the <i>UGALnano Symposium</i>, editions 2010-2018</li> <li>• Member of the scientific committees of the international or international participation conferences: <i>3rd International Conference on Advanced Nano Materials-Agadir 2010</i>, <i>National Symposium Colloids and surfaces Chemistry - Galati 2007</i>, <i>UgalMat editions 2009 - 2016</i>, <i>NewTech-Galati 2009</i>, <i>PPE2015</i> and <i>PPE2017-Galati</i>, <i>BraMat 2017</i>, <i>UGALMAT 2014-2016</i>, chair of UGALMAT 2016.</li> </ul>
<b>Academic and scientific responsibilities</b>	<ul style="list-style-type: none"> <li>• Director of Doctoral Studies Council of "Dunarea de Jos" of Galati (CSUD-UDJG), September 2012-September 2016</li> <li>• Member of the National Council for Attesting Titles, Diplomas and Certificates (CNATDCU), Materials Science and Engineering Commission, 2012-2016</li> <li>• Member of National Council for Scientific Research (CNCS)-Materials Science Commission, 2011-2013</li> <li>• Director of Research Center "<i>Nanostructures and Functional Materials</i>" (C.N.M.F.), "Dunărea de Jos" University of Galați (national accreditation 2006)</li> <li>• Director of Master Specialization "<i>Nanotechnologies and Multifunctional Materials</i>", Faculty of Engineering, "Dunărea de Jos" University of Galați</li> <li>• Coordinator of Erasmus Programs with NOVA University of Lisbon, Bordeaux I University, TU DELFT Netherlands and University of Sassari Italy. Technical University of DELFT/Department of Chemistry (2008), University of Alghero Sardinia (2009), Tehnical University of Darmstadt (2010).</li> </ul>
<b>Scientific recognition</b>	<p><b>Hirsch Index</b> (without self-citations):  <math>h\text{-index}_{\text{ISI WoS}} = 14</math> / <math>h\text{-index}_{\text{SCOPUS}} = 14</math> / <math>h\text{-index}_{\text{RG}} = 15</math> / <math>h\text{-index}_{\text{GA}} = 15</math>  <b>Citations:</b> 790 in WoS, 1077 in Google Academics</p>

<p><b>Scientific activities and results</b></p>	<p><b>Published papers</b></p> <ul style="list-style-type: none"> <li>• Papers published in ISI Th.R /WoS Core Collection journals: 60 articles (of which 46 as the first&amp;corresponding author)</li> <li>• Papers published in BDI journals and Proceedings and national publications: 62</li> <li>• Papers presented in conferences: 89 (58 in international and national with international participation conferences, of which 24 invited&amp;oral presentations)</li> </ul> <p><b>Published scientific and academic books/book chapters: 8</b></p> <p><b>Patents: 2 patents</b></p> <p><b>Research projects in the last years (Director/Partener Responsible)</b></p> <ul style="list-style-type: none"> <li>• Project FP7-NMP-2010-SMALL-4, PC7/Nr.263042/2011-2014: <i>Printable organic-inorganic transparent semiconductor devices</i> (POINTS)</li> <li>• Project FP7-NMT-ERA-NET Nr 7-029/2010-2013: <i>Multifunctional zinc oxide-based nanostructures: from materials to a new generation of devices</i> (MULTINANOWIRES)</li> <li>• Project CAPACITATI Modulul III, Nr. 156 EU-POINTS, 2011-2014</li> <li>• Project CNCISIS type A code 677/2007: <i>Filme oxidice nanostructurate multifunctionale obtinute prin metode chimice pe cale umedă (Multifunctional nanostructured oxide films obtained by chemical wet methods)</i></li> <li>• Project PN-II-PT-PCCA-2013-4-2014 Nr. 27/2014-2016: <i>Nanostructuri 1D si 2D pe baza de ZnO si procese tehnologice inovative pentru integrarea lor directa in dispozitive de sesizare gaze si de detectie a radiatiei UV (1D and 2D nanostructures based on ZnO and innovative technological processes for direct integration in gas sensing devices and detection of UV radiation)</i> (NANOZON).</li> </ul>
<p><b>Other mentions</b></p>	<ul style="list-style-type: none"> <li>• Excellence prize for the visibility and impact of the excellence results in the research, development and innovation activities from "Dunarea de Jos" University of Galati in 2017</li> <li>• Medal "Gheorge Spacu" granted by the Romanian Chemical Society (2015)</li> <li>• <i>Award of honour for the outstanding scientific and organizational contribution to the progress of the Physical Chemistry Conference and to its affirmation as a prestigious scientific event</i>, Timisoara, 2-5 Septembrie 2003.</li> <li>• TOP 25/2014, articles within the journal: <i>Journal of Alloys and Compounds, Photocatalytic and antimicrobial Ag/ZnO nanocomposites for functionalization of textile fabrics</i>, <i>Journal of Alloys and Compounds</i> 10/2014; 610 (2014) 244-249</li> <li>• TOP25/2006 articles within the journal: <i>Thin Solid Films, Effect of Post-Heat Treatment on the Electrical and Optical Properties of ZnO:Al thin films</i>, <i>Thin Solid Films</i> 502 (2006) 219-222.</li> </ul>

30.07.2019

Prof. dr. chem. Viorica MUSAT