

CURRICULUM VITAE

Personal Data	
Name	Viorica Domnica MUȘAT (born BUJOREANU)
Address	Domeasca 111, Cod 800201, Galați
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E-mail(s)	viorica.musat@ugal.ro , vio52musat@yahoo.com
Nationality	Romanian
Competence fields/ Research Interest	<ul style="list-style-type: none"> • Nanotechnologies and Nanomaterials • Nanostructured oxide, hybrid and composites materials (nanoparticles/quantum dots, nanowires/nanorods, nanosheets, thin films) • Bottom-up synthesis by chemical methods from solution (sol-gel, hydro/solvothermal, co-precipitation, chemical bath deposition, reverse-emulsion, layer by layer deposition, self assembling, biomimic growth) • Nanostructured functional materials (dielectric, semiconductive, photoluminescent, photocatalytic, antimicrobial), for transparent/flexible electronics, optoelectronics, photovoltaic cells, sensors, decorative/protective applications, multifunctional prosthetic materials, biocompatible and environmental protection • Materials morphology and structure. Magnetic, optical and electrical properties • Thermal analysis, isothermal and non-isothermal kinetics in heterogeneous systems involving solid phases • Environmental Chemistry. The quality of materials and environment
Professional experience	
2006-prezent	PhD Supervisor in the field of <i>Materials Science and Engineering</i>
2001-prezent	Full Professor, "Dunărea de Jos" University of Galați
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 factory of Galați
1977-1978	Chemist, S.C. TRACTORUL factory of Brașov
Since 1986	Given courses: <i>Physical chemistry</i> , Chemistry of environment, <i>Colloidal chemistry</i> , <i>Ceramic materials</i> , <i>Nanomaterials and Nanotechnologies</i> , <i>Multifunctional and smart materials</i> , <i>Composite and hybrid materials</i> , <i>Materials for renewable energies (eng)</i> , <i>Functional thin films</i> , <i>Technical analysis of materials</i> , <i>Chemistry and pyrogenation of coals</i>
Education and formation	
1997	PhD diploma in Chemistry/Physical chemistry, University of Bucharest.
1984	Specialization in Thermal analysis and Non-isothermal Kinetics, 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.

Research and teaching stages abroad	<ul style="list-style-type: none"> • Doctoral research grant, <i>Institute de Chimie de la Matière Condensée de Bordeaux (ICMCB)-CNRS France</i> (1-30 October 1994) • TEMPUS individual grant, <i>University Bordeaux I, ICMCB and Centre de Recherche Paul Pascal-Pessac- CNRS France</i> (October-December 1998) • Visit <i>Laboratoire de Structure et Réactivité des Systèmes Interfaciaux</i>, <i>Université Pierre et Marie Curie (Paris VI)</i> (December 1998) • NATO Senior Scientist Fellowship, <i>NOVA University of Lisbon, Department of Materials Investigation (CENIMAT), Portugal</i> (Febr.2002-Febr.2003) • NATO Visiting Expert (NATO priority: <i>A Rapid detection of chemical agents; IB Novel and rapid method of detection-chemical sensors</i>), <i>University NOVA/FCT/CENIMAT/Portugal</i> (March 2006) • NATO Visiting Expert, <i>CENIMAT/FCT/NOVA University of Lisbon</i> (April 2007). • 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). • 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) • 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).
Member of professional associations	<ul style="list-style-type: none"> • Associated researcher at <i>FCT (Fundação do Ministério de Ciência e Tecnologia)-CENIMAT/I3N Portugal</i> • Member of the <i>Commission of Thermal Analysis and Calorimetry of the Romanian Academy</i> • Member of the <i>International Society of Thermal Analysis and Calorimetry (ICTAC)</i> • Member of <i>European Materials Research Society (EMRS)</i> • Member of <i>International Sol-Gel Society (ISGS)</i> • Member of <i>Romanian Chemistry Society (RCS)</i>
Evaluation and editorial Activities	<ul style="list-style-type: none"> • Member of the <i>National Council for Attesting Titles, Diplomas and Certificates (CNATDCU), Materials Science and Engineering Commission, 2012-2016</i> • Member of <i>National Council for Scientific Research (CNCS)-Materials Science Comission, 2011-2013</i> • <i>CNCSIS and UEFISCDI assessor expert/rapporteur in IDEI, CEEX, PNCDI-II and bilateral international cooperation projects</i> • <i>ANCS assessor expert for Research institutions in Romania (ICECHIM Bucharest)</i> • <i>Assessor expert and rapporteur in FP7-NMP (Nanotechnologies, Materials-Processing), FP7 Marie Curie and FP7-ENERGY FET (Future Emerging Technology)</i> • <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> • <i>Partner coordinator and expert in HRD project: Excellence in research in doctoral and postdoctoral exchanges(ExcelDOC) Contract No POSDRU 159 / 1.5 / S / 132 397, 2014</i>

	<ul style="list-style-type: none"> • Scientific reviewer for ISI international journals: <i>NANO</i>, <i>Surface Coatings & 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 of</i>, <i>Materials Letters</i>, etc. • 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</i> (Cluj) journal • Co-editor of <i>Materials Science and Engineering 30 (1)</i>, 011001, selected papers presented at E-MRS Fall Symposium K: Solution-Derived Electronic-Oxide Films, Nanostructures and patterning-from Materials to Devices, Warsaw 2011, ISI indexed Proceedings-IOP Conference Series. • Co-editor of "<i>Nanotechnologies and Advanced Materials</i>" Advanced Materials Publication Volume 1143, doi: 10.4028 / www.scientific.net/ AMR.1143, including the papers published at the UGAL MAT 2016 Conference, ISI indexed Proceedings.
Personal competences- Foreign language(s)	<i>English, French</i>
Organizational activities	<ul style="list-style-type: none"> • 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. • Co-organizer of the "Romphyschem16" Galati 21-23 Sept 2016 and IXth Conference of Physical Chemistry Galati 23-25 Sept.1998, http://web.icf.ro/romphyschem. • Initiator and organizer of the Scientific Conferences of the Doctoral Schools from UDJG (CSSD-UDJG), editions 2013-2016, www.cssd-udjg.ugal.ro • Initiator and Organizer of the <i>UGALnano Symposium</i>, editions 2010-2017 • Member of the scientific committees of the international/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 2017</i>
Academic and Scientific Responsibilities	<ul style="list-style-type: none"> • Director of Doctoral Studies Council of "Dunarea de Jos" (CSUD-UDJG) - assimilated vice rector responsible with doctorate activity, September 2012-September 2016 • Member of the National Council for Attesting Titles, Diplomas and Certificates (CNATDCU), Materials Science and Engineering Commission • Founder and Director of Research Center "<i>Nanostructures and Functional Materials</i>" (C.N.M.F.), "Dunărea de Jos" University of Galați (national accreditation 2006) • Director of Master Specialization Programme "<i>Nanotechnologies and Multifunctional Materials</i>", Faculty of Engineering, "Dunărea de Jos" University of Galați • 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).
Scientific and academic recognition	<p>Hirsch Index (without self-citations):</p> <p>h-index_{ISI WoS} = 13 / 11 (first and/or corresponding author)</p> <p>h-index_{SCOPUS} = 14 / 12 (first and/or corresponding author)</p> <p>h-index_{RG} = 15 / 13 (first and/or corresponding author)</p> <p>h-index_{GOOGLE} = 14 / 12 (first and/or corresponding author)</p> <p>search for V Musat+V Musat Bujoreanu+V Bujoreanu</p>

<p>Scientific activities and results</p>	<p>Published papers</p> <ul style="list-style-type: none"> • Papers published in ISI journal: 63 articles of which 50 as the first&corresponding author, with Impact Cumulative Factor ~ 73 • Papers published in BDI journals: 49 • Papers presented in conferences:81 (52 international/international participation conferences) of which 18 invited. <p>Published scientific and academic books: 8</p> <p>Patents: 1 patent +1patent application</p> <p>Research projects in the last years (Director/Partener Responsible)</p> <ul style="list-style-type: none"> • Project FP7-NMP-2010-SMALL-4, PC7/Nr.263042/2011-2014: <i>Printable organic-inorganic transparent semiconductor devices</i> (POINTS) • 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) • Project CAPACITATI Modulul III, Nr. 156 EU-POINTS, 2011-2014 • Project CNCSIS 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> • 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 direct 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).
<p>Other mentions</p>	<ul style="list-style-type: none"> • Medal "George Spacu" granted by the Romanian Chemical Society, 2015 • <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, Timisoara, 2-5 Septembrie 2003.</i> • TOP 25/2014, articles within the journal: Journal of Alloys and Compounds , <i>Photocatalytic and antimicrobial Ag/ZnO nanocomposites for functionalization of textile fabrics</i>, Journal of Alloys and Compounds 10/2014; 610:244–249, 610 (2014) 244-249, DOI: 10.1016/j.jallcom.2014.04.138, ISBN=0925-8388), http://www.journals.elsevier.com/journal-of-alloys-and-compounds/most-downloaded-articles/ • TOP25/2006 articles within the journal:Thin Solid Films, <i>Effect of Post-Heat Treatment on theElectrical and Optical Properties of ZnO:Al thin films</i>,Thin Solid Films 502(2006) 219-222,ISSN0040-6090, http://top25.sciencedirect.com/index.php?cat_id=8&subject_area_id=15&journal_id=00406090

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Prof. dr. chem. Viorica MUSAT