



CURRICULUM VITAE

Personal information	
Name	Viorica Domnica MUȘAT (born BUJOREANU)
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Nationality	Romanian
Competence fields	<ul style="list-style-type: none">• Nanotechnologies and Nanomaterials• Nanostructured oxide, hybrid and composites materials (nanoparticles/quantum dots, nanowires, thin films and coatings)• Bottom-up synthesis by chemical methods from solution: sol-gel, hydro/solvothermal (microwave assisted), co-precipitation, chemical bath deposition, reverse-emulsion, layer by layer deposition, self-assembling, biomimic growth• Nanostructured functional materials (dielectric, semiconductive, photoluminescent, photocatalytic, antimicrobial, biomimetic), for transparent electronics, optoelectronics, photovoltaic cells, sensors, decorative applications, prosthetics, biocompatible and environmental protection• Materials morphology and structure. Physical chemistry of materials, Magnetical, optical and electrical properties• Thermal analysis, isothermal and non-isothermal kinetics in heterogeneous systems involving solid phases• Environmental Chemistry. Quality of materials and environment
Professional experience	
2006-prezent	PhD Supervisor in the field of <i>Materials Science and Engineering</i>
2001-prezent	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, I.N.E.T.O.F.(S.C.ELNAV S.A.) factory of Galați
1977-1978	Chemist, "Tractorul" factory of Brasov
Since 1986	Teaching academic courses responsible: <i>Physical chemistry, Ceramic materials, Technical analysis of materials, Coals chemistry and pyrogenation of coals, Colloidal chemistry, Chemistry of environment, Multifunctional and smart materials, Composite and hybrid materials, Materials for renewable energies (eng), Functional thin films.</i>
Education and formation	
1997	PhD thesis 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, Faculty of Chemistry, Polytechnic Institute of Bucharest.
1976	Diploma in Chemistry, Faculty of Chemistry, Polytechnic Institute of Bucharest.

Research and teaching activities abroad

- Doctoral research grant, *Institute de Chimie de la Matière Condensée de Bordeaux (ICMCB)-CNRS France* (1-30 October 1994)
- TEMPUS individual grant, *University Bordeaux I, ICMCB and Centre de Recherche Paul Pascal-Pessac-CNRS France* (October-December 1998)
- Visit *Laboratoire de Structure et Réactivité des Systèmes Interfaciaux*, Université Pierre et Marie Curie (Paris VI) (December 1998)
- NATO Senior Scientist Fellowship (international competition), NOVA University of Lisbon, Department of Materials Investigation (CENIMAT), Portugal (Febr.2002-Febr.2003)
- NATO Visiting Expert (NATO priority: *A Rapid detection of chemical agents; IB Novel and rapid method of detection-chemical sensors*), University NOVA/FCT/CENIMAT/ Portugal (March 2006)
- NATO Visiting Expert, CENIMAT/FCT/NOVA University of Lisbon, Portugal (April 2007)
- Erasmus Teaching Missions at: University of *Bordeaux I France* (2006, 2007), NOVA University of Lisbon (2007, 2008, 2009, 2010), Technical University of DELFT, Department of Chemistry (2008), University of Alghero, Sardinia/Italia (2009), Technical University of Darmstadt (2010)
- MINOS Road Show-European Tour of Nanotechnology Centers: Research Center “iNano” from University of Aarhus-Denmark, IDEON Science Park- Lund- Sweden, Nanometer Structure Consortium from Lund University, Nanoscience Centre from University of Copenhagen, CSEM Neuchatel Switzerland and LETI/MINATEC Research Centre of CEA-Grenoble France (May 2008)
- Working Meetings and visits within research projects: Cavendish Laboratory-University of Cambridge (2010, 2011); Bayer Technology Services GmbH Leverkusen (March 2012); VVT- Valtion Teknillinen Tutkimuskeskus (Technical Research Centre of Finland) and Espoo-Oulu, Finlanda (April 2012); University NOVA Lisbon (September 2012); Erlangen, IISB-Franhofer Institute Germany (April 2013 Aprilie); Promethean Ltd, Nottingham, UK (September 2013); Stora Enso/VTI, Imatra, Finlanda (January 2014 Ianuarie); I G CATALYSTS Ltd, Cleveland, UK (September 2014)

Member of professional associations

- Associated researcher at FCT (Fundação do Ministério de Ciência e Tecnologia)-CENIMAT/I3N Portugal
- Member of International Sol-Gel Society
- Member of the International Society of Thermal Analysis and Calorimetry.
- Member of European Materials Research Society (EMRS)
- Member of Romanian Chemistry Society

Evaluation and editorial activities

- CNCSIS and UEFISCDI assessor expert for IDEI, CEEX, PNCDI and bilateral international cooperation projects
- ANCS assessor expert and rapporteur for Research institutions in Romania (ICECHIM Bucharest)
- Assessor expert and rapporteur in FP7-NMP (Nanotechnologies, Materials-Processing), FP7 Marie Curie and FP7-ENERGY FET (Future Emerging Technology)
- Expert in POSDRU: *Improve the quality of training of researchers based doctoral programs enhanced by partnerships* (PhD EXPERT) Contract No: POS DRU / 21 / 1.5 / G / 19524

	<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 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 (Cluj)</i> journal • Co-editor of <i>Materials Science and Engineering</i> 30 (1), 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>" <i>Advanced Materials Publication</i> Volume 1143, doi: 10.4028 / www.scientific.net/ AMR.1143, including the papers published at the UGAL MAT 2016 Conference, ISI indexed Proceedings.
Personal aptitudes and 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 2010-2015 (www.cnmf.ugal.ro) • Chair of <i>UgalMat</i> 2016 • Member of the scientific committees of the international/international participation conferences: <i>3rd International Conference on Advanced Nano Materials-Agadir</i> 2010, <i>National Symposium Colloids and surfaces Chemistry - Galati</i> 2007, <i>UgalMat editions</i> 2009 - 2016, <i>NewTech-Galati</i> 2009, <i>PPE2015</i> and <i>PPE2017-Galati</i>, <i>BraMat</i> 2017
Scientific results	<p>Papers published in ISI journals: 58 (30 first&correspondent author and 14 correspondent author). Cumulative impact factor = 75,1</p> <ul style="list-style-type: none"> • Papers published in BDI and national journals: 49 • Conference papers: 85 (54 international&international participation conferences) • Published books (single and co-author): 8 • Patents: 2
Scientific and academic recognition	<p>Citations in international journals Citations Numar: 774 (Google-scholar), 601 (Scopus), 611 (RG), 547 (ISI-WoS), căutare: V Musat+V Musat Bujoreanu+V Bujoreanu</p> <p>Hirsch Index (without self-citations): h-index_{ISI} = 13 / 11 (first and/or corresponding author) h-index_{SCOPUS} = 14 / 12 (first and/or corresponding author) h-index_{RG} = 14 / 12 (first and/or corresponding author) h-index_{GOOGLE} = 13 / 11 (first and/or corresponding author)</p> <p>ISI WOS → https://apps.webofknowledge.com/CitationReport.do?product=WOS&search_mode=CitationReport&SID=N1d1mqRYcapa2u7ZSMh&page=1&cr_pqid=26&viewType=summary&from_ML=true&colName=WOS Google-scholar → https://scholar.google.it/citations?user=4jq2D3sAAAAJ&hl=en RG → https://www.researchgate.net/profile/V_Musat/reputation</p>

Academic and Scientific Responsibilities

- Director of Council of Doctoral Studies from "Dunarea de Jos" University (CSUD-UDJG) - September 2012-September 2016
- Member of the National Council for Attesting Titles, Diplomas and Certificates (CNATDCU), Materials Science and Engineering Commission, 2012-2016
- Member of National Council for Scientific Research (CNCS) - Materials Science commission, 2011-2012
- Director of Research Center "Nanostructures and Functional Materials"-C.N.M.F., "Dunărea de Jos" University of Galați (national accreditation 2006)
- Director of Master Programme "Nanotechnologies and Multifunctional Materials", Faculty of Engineering, "Dunărea de Jos" University of Galați
- Coordinator of Erasmus Programs with NOVA University of Lisbon, Bordeaux I University, TU DELFT Netherlands, University of Sassy Italy, .

Research projects/last period, Director/Partener Responsible):

- Project FP7-NMP-2010-SMALL-4, PC7/Nr.263042/2011-2014: „Printable organic-inorganic transparent semiconductor devices (POINTS)”
- Project FP7-NMT-ERA-NET Nr 7-029/2010-2013, cu titlu: Multifunctional zinc oxide-based nanostructures: from materials to a new generation of devices (MULTINANOWIRES)
- CAPACITATI Modulul III, Nr. 156EU-POINTS, 2011-2014
- CNCSIS type A, code 677/2007-2008: "Filme oxidice nanostructurate multifunctionale obtinute prin metode chimice pe cale umeda"(Multifunctional nanostructured oxide films obtained by chemical wet methods)
- PN-II-PT-PCCA-2013-4-2014, nr. 27/2014-2017: "1D and 2D nanostructures based on ZnO and innovative technological processes for direct integration in gas sensing devices and detection of UV radiation"-NANOZON.

Other mentions

- Medal "George Spacu" granted by the Romanian Chemical Society, 2015
- „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.
- TOP 25/2014, articles within the journal: Journal of Alloys and Compounds , *Photocatalytic and antimicrobial Ag/ZnO nanocomposites for functionalization of textile fabrics*, 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, *Effect of Post-Heat Treatment on theElectrical and Optical Properties of ZnO:Al thin films*,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