

CURRICULUM VITAE

<p>Personal Data</p> <p>Name</p> <p>Address</p> <p>E-mail(s)</p> <p>Nationality</p>	<p>Viorica Domnica MUȘAT (born BUJOREANU)</p> <p>Domeasca 111, Cod 800201, Galați</p> <p>viorica.musat@ugal.ro, vio52musat@yahoo.com</p> <p>Romanian</p> 
<p>Competence fields/ Research Interest</p>	<ul style="list-style-type: none"> • Nanochemistry, nanostructures and functional 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, biomimetic growth) • Nanostructured (multi)functional materials (dielectric, semiconductive, photoluminescent, photocatalytic, antimicrobial), for transparent/flexible electronics, optoelectronics, photovoltaic cells, sensors, decorative/protective applications, prosthetics&biomedical applications and environmental protection • Chemical 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
<p>Professional experience</p> <p>2006-present</p> <p>2001-present</p> <p>1997-2001</p> <p>1986-1997</p> <p>1981-1986</p> <p>1978-1981</p> <p>1977-1978</p> <p>Since 1986</p>	<p>PhD Supervisor in the field of <i>Materials Science and Engineering</i></p> <p>Full Professor, "Dunărea de Jos" University of Galați</p> <p>Associate Professor, "Dunărea de Jos" University of Galați</p> <p>Assistant Professor, "Dunărea de Jos" University of Galați</p> <p>Assistant, "Dunărea de Jos" University of Galați</p> <p>Chemist, S.C. ELNAV factory of Galați</p> <p>Chemist, S.C. TRACTORUL factory of Brașov</p> <p>Courses/Teaching: <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.</i></p>
<p>Education and formation</p> <p>1997</p> <p>1984</p> <p>1977</p> <p>1976</p>	<p>PhD diploma in Chemistry/Physical chemistry, University of Bucharest</p> <p>Specialization in Thermal analysis and Non-isothermal Kinetics, Faculty of chemistry/University of Bucharest</p> <p>Diploma of Advanced Studies in Physical chemistry/Chemical structure, Faculty of Chemistry, Polytechnic Institute of Bucharest</p> <p>Diploma in Chemistry, Faculty of Chemistry, Polytechnic Institute of Bucharest.</p>

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</i> (October-December 1998) • Visit <i>Laboratoire de Structure et Réactivité des Systèmes Interfaciaux</i>, Université Pierre et Marie Curie (Paris VI) (December 1998) • Postdoctoral grant/ NATO Senior Scientist Fellowship, NOVA University of Lisbon, Department of Materials Investigation (CENIMAT) (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>), NOVA University/FCT/CENIMAT/I3N, March 2006 (one month) and April 2007 (one month). • Erasmus Teaching Missions: University of <i>Bordeaux I</i> (2006, 2007), NOVA University of Lisbon (2007-2010, 2017), Technical University of DELFT/Department of Chemistry (2008), University of Alghero Sardinia (2009), Tehnical University of Darmstadt (2010). • MINOS Road Show-European Tour of Nanotechnology Centers: 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 (May 2008) • Working meetings and visits within research projects: Cavendish Laboratory-University of Cambridge (2010, 2011, 2013), Bayer Technology Services GmbH Leverkusen (March 2012), VVT- Valtion Teknillinen Tutkimuskeskus (Technical Research Centre of Finland) and Espoo-Oulu (April 2012), University NOVA Lisbon (September 2012), Erlangen IISB-Franhofer Institute (April 2013 Aprilie), Promethean Ltd Nottingham (September 2013), Stora Enso/VTT Imatra (January 2014), I G CATALYSTS Ltd Clevelad (September 2014).
Member of professional associations	<ul style="list-style-type: none"> • Associated researcher at FCT (Fundação do Ministério de Ciência e Tecnologia)-CENIMAT/I3N Portugal • Commission of Thermal Analysis and Calorimetry/Romanian Academy • International Society of Thermal Analysis and Calorimetry (ICTAC) • European Materials Research Society (EMRS) • International Sol-Gel Society (ISGS) • Romanian Chemistry Society (RCS)
Evaluation and editorial Activities	<ul style="list-style-type: none"> • CNCSIS and UEFISCDI assessor expert/rapporteur in <i>IDEI, CEEX, PNCDI-II</i> and bilateral international cooperation projects. • ANCS assessor expert 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), NMT ERA-NET • Expert in POSDRU project: <i>Improve the quality of training of researchers based doctoral programs enhanced by partnerships</i> (PhD EXPERT) Contract No: POS DRU / 21 / 1.5 / G / 19524. • <i>Partner coordinator and expert in HRD project: Excellence in research in doctoral and postdoctoral exchanges</i> (ExcelDOC) Contract POSDRU 159 / 1.5 / S / 132 397, 2014. • Scientific reviewer for ISI international journals: <i>NANO, Surface Coatings & Technology, Applied Surface Science, Materials Chemistry and Physics B, Physica Status Solid (a), (b), Electrochemical and Solid-State Letters, Materials Science and Engineering B, Advanced Materials Forum III, Journal of Electrochemical Society, Journal of Composite Materials, Journal of Thermal Analysis and Calorimetry, Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry, Separation and Purification Tech., J. Alloys and Compounds of, Materials Letters</i>, etc. • Co-editor of <i>Materials Science and Engineering</i> 30 (1), 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, and ISI indexed Proceedings-IOP Conference Series.

	<ul style="list-style-type: none"> • 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" Galați 21-23 Sept 2016 and IXth Conference of Physical Chemistry Galați 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 - Galați 2007</i>, <i>UgalMat editions 2009 - 2016</i>, <i>NewTech-Galați 2009</i>, <i>PPE2015</i> and <i>PPE2017-Galați</i>, BraMat 2017.
Academic and Scientific Responsibilities	<ul style="list-style-type: none"> • Director of Doctoral Studies Council of "Dunărea de Jos" (CSUD-UDJG) - assimilated vice rector responsible with doctorate activity (Sept. 2012-Sept. 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 (2011-2013) • Founder director of Research Center "<i>Nanostructures and Functional Materials</i>" (C.N.M.F.), "Dunărea de Jos" University of Galați (national accreditation 2006) and founder of Laboratory of Chemical Nanotechnologies (LCN) in CNMF • Director of Master Specialization "<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, University of Alghero Sassy/Sardinia, Technical University of DELFT/Department of Chemistry, Technical University of Darmstadt
Scientific and academic recognition	Hirsch Index: $h\text{-index}_{\text{ISI WoS}} = 15$ (V Musat, V Musat Bujoreanu, VM Bujoreanu, V Bujoreanu)
Scientific activities and results	<p>Published papers</p> <ul style="list-style-type: none"> • Papers published in ISI Th.R /WoS Core Collection journals: 64 articles (51 as the first and/or corresponding author) • Papers published in BDI journals and Proceedings: 54 • Papers presented in conferences: 82 (52 international of which 23 invited). <p>Published scientific and academic books/book chapters: 8</p> <p>Patents: 2 (OSIM)</p> <p>Research projects (Director/Partener Responsible)</p> <ul style="list-style-type: none"> • Project FP7-NMP-2010-SMALL-4, PC7 63042/2011-2014: <i>Printable organic-inorganic transparent semiconductor devices (POINTS)</i> • Project FP7-NMT-ERA-NET 7-029/2010-2013: <i>Multifunctional zinc oxide-based nanostructures: from materials to a new generation of devices (MULTINANOWIRES)</i>

- Project CAPACITATI Modulul III, Nr. 156 EU-POINTS/ 2011-2014
- Project CNCSIS type A code 677/2007: *Filme oxidice nanostructurate multifunctionale obținute prin metode chimice pe cale umedă (Multifunctional nanostructured oxide films obtained by chemical wet methods)*
- Project PN-II-PT-PCCA-2013-4-2014, 7/2014-2016: *Nanostructuri 1D și 2D pe bază de ZnO și procese tehnologice inovative pentru integrarea lor direct în dispozitive de sesizare gaze și de detecție a radiației UV (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

- Excellence Prize for the visibility and impact of the excellence results in the research, development and innovation activities from "Dunărea de Jos" University of Galați (2017)
- Medal "Gheorge 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, Timișoara (2-5 Septembrie 2003)*
- TOP 25/2014, articles within the Journal of Alloys and Compounds: *Photocatalytic and antimicrobial Ag/ZnO nanocomposites for functionalization of textile fabrics*, Journal of Alloys and Compounds 610 (2014) 244-249
- TOP25/2006 articles within the journal Thin Solid Films: *Effect of Post-Heat Treatment on the Electrical and Optical Properties of ZnO:Al thin films*, Thin Solid Films 502 (2006) 219-222.

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Prof. dr. chem. Viorica Domnica MUȘAT

