

CURRICULUM VITAE

Personal Data Name Afiliation E-mail(s)	Professor Viorica Domnica MUȘAT (born BUJOREANU) "Dunărea de Jos" University of Galati viorica.musat@ugal.ro
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
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</i> France (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), Technical 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 Cleveland (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"> • CNCIS and UEFISCDI assessor expert/rapporteur in <i>IDEI</i>, <i>CEEX</i>, <i>PNCI-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) • 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 • Partner coordinator and expert in HRD project: <i>Excellence in research in doctoral and postdoctoral exchanges</i>(ExcelDOC) Contract No POSDRU 159 / 1.5 / S / 132 397, 2014 • 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, 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. • 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)	English, French
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 Physica 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>PPE2017-2019 Galati</i>, <i>BraMat 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, 2012-2016 • Member of National Council for Scientific Research (CNCS)-Materials Science Commission, 2011-2013 • 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 <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), Technical University of Darmstadt (2010).
Scientific and academic recognition	<p>Hirsch Index: h-index_{ISI WoS} = 16 / h-index_{SCOPUS} = 16 / h-index_{RG} = 16 / h-index_{GA} = 18</p> <p>Citations: about 950/880 without self-citations (WoS and Scopus), over 1300/1150 without self-citations (Google Academics)</p>

Scientific activities and results	<p>Published papers</p> <ul style="list-style-type: none"> • Papers published in ISI Th.R /WoS Core Collection journals: 66 articles (of which 52 as the first&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 patents</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. 27/2014-2017: <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) (NANOZON).</i>
Other mentions	<ul style="list-style-type: none"> • <i>Premiu de Excelenta CEREX-UDJG pentru Brevele obtinute in perioada 2019-2020</i> • Research Excellence Award UGALMAT 2020 for research contribution in Materials Science and Engineering • THE 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 (2017). • Medal "Gheorge 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 (2014) 244-249 • TOP25/2006 articles within the journal:Thin Solid Films, <i>Effect of Post-Heat Treatment on the Electrical and Optical Properties of ZnO:Al thin films</i>,Thin Solid Films 502 (2006) 219-222.

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Prof. dr. chem. Viorica MUSAT