

Professor dr. chem. Viorica Muşat obtained the PhD in Chemistry/Physical chemistry (with the thesis "Kinetics in Heterogeneous Systems Generating Magnetic Mixed Oxides") at the University of Bucharest and accomplished a postdoctoral research in sol-gel synthesis of transparent conductive oxide (TCO) thin films for electronics at CENIMAT/I3N-FCT-UNL.

She is the founding director of the Center of Nanostructures and Functional Materials-CNMF and coordinator of Laboratory of Chemical Nanotechnologies-LCN at the University "Dunărea de Jos" of Galați. As researcher and PhD supervisor in Materials Science and Engineering domain, she developed research focused on solution-based bottom-up synthesis (co-precipitation, sol-gel/spin-coating&dip-coating, spray pyrolysis, solvo/hydrothermal, self-assembling, chemical bath deposition, microwave-assisted hybrid methods, biomimetic synthesis, electrospinning) of (multi)functional nanostructured (QDs, nanowires/nanorods, 2D nanostructures, TCO and dielectric thin films, 3D hierarchical biomaterials) oxides, hybrids and composite materials. The targeted advanced applications were in transparent/flexible electronics, green-electronics, optoelectronics, sensors, functionalized surfaces, antimicrobial and protective coatings for prosthetics, nanoadsorbents and photocatalysts for water purification.

She was director of the Doctoral University Studies Council of UDJG (2012-2016) and member of the National Council for Attesting Titles, Diplomas and Certificates-CNATDCU-Materials Science and Engineering (2012-2016). Has participated (Romanian partner responsible) in international R&D projects (FP7-NMT-ERA-NET, FP7-NMP-2010-Small-4, NATO Science for peace, NATO visiting expert) on nanostructured materials with application in transparent/flexible electronics and sensing. Is author/co-author of 75 articles published in ISI journals (h-index wos =19 (1245 citations), h-index_{GA}=21 (1676 citations)), two patents, eight books, three international books (co-editor/editor).

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