Curriculum Vitae

Dr. Violeta Melinte (former Niculescu)

Scientific researcher III, Polyaddition and Photochemistry Department, ICMPP Iasi

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Education, degree and diplomas

- Oct. 1996 Jun. 2000: "Al. I. Cuza" University of Iasi, Faculty of Chemistry, Bachelor of Science in Chemistry
- Oct. 2000 Jun. 2002: "Al. I. Cuza" University of Iasi, Faculty of Chemistry, Master in Chemistry and Biochemistry of Heterocyclic Compounds
- Nov. 2002 Jul. 2008: "Petru Poni" Institute of Macromolecular Chemistry, Ph.D. in Macromolecular Chemistry with thesis "Monomers and polymers with photoclivable groups used in microlithography", scientific coordinator: Acad. Bogdan C. Simionescu
- Jun. 2010 Mar. 2013: Post-doctoral Fellow in the frame of European Social Fund -"Cristofor I. Simionescu" Postdoctoral Fellowship Programme, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

Professional experience

- Employed from March 2001 at "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Polyaddition and Photochemistry Department
- Research assistant: 2001 2006
- Scientific researcher: 2006 2009
- Scientific researcher grade III: 2009 present

Research fields

- Photosensitive monomers with triazene sequences incorporated in polyurethanes/copolyacrylates/ block copolymers for versatile polymeric photocleavable coatings under UV/laser irradiation or as fluorescent chemosensors
- Synthesis and characterization of photocurable (meth)acrylic monomers/oligomers, photopolymerization studies concerning the formation, structure and properties of crosslinked networks
- X Synthesis of new photopolymerizable urethane (meth)acrylate monomers/oligomers

- and BisGMA derivatives for polymeric materials evaluated in dental applications as restorative or adhesive systems
- Development of hybrid nanocomposites with improved mechanical/optical features through the inclusion of functionalized inorganic fillers (montmorillonite, magnetite, TiO₂, ZnO, CeO₂) or their *in situ* photogeneration (Au, Ag, Pd) in tandem with the photopolymerization process
- Implementation of modern polymerization techniques (ATRP, RAFT) in the synthesis of photoactive block copolymers, their structural characterization and testing of applicative potential (chemosensors, patterns for micro- and nanolithography)

Papers, publications and scientometrics indicators

- ✓ Publications: 53 articles ISI indexed (total impact factor ~135)
- ✓ Hirsh index: 13 (from ISI Web of Science, cumulative Melinte V* or Niculescu V*)
- ✓ Sum of the times cited without self-citation: 240 (according to ISI Web of Science, May 2020)
- Proceedings at international events: 9
- ✓ Book chapters: 2
- ✓ Patents: 2
- ✓ Over 50 presentations (lectures, oral communications or posters) in national and international conferences
- ✓ Project leader, Design and preparation under mild "green" conditions of UV-cured polymer metal/metal oxide nanoparticles hybrid coatings with predictable antimicrobial or sealing features (POLYMETCOAT), PN-III-P1-1.1-TE-2016-1390, 2018-2020
- ✓ Member in 24 national and 2 international projects.

Post-doc research stages

- Oct. Nov. 2010 Institute de Sciences des Materiaux de Mulhouse, France ID POSDRU/89/1.5/S/55216 Obtaining of hybrid composites through photocuring experiments and their characterization
- Jan.-Feb. 2012 Institute de Sciences des Materiaux de Mulhouse, France ID POSDRU/89/1.5/S/55216 Obtaining of new photopolymerizable hybrid based on methacrylic monomers and metallic nanoparticles.