

### **Dr. Adrian FIFERE, Senior Scientist**

**Scientific Researcher:** **2001** – “Petru Poni” Institute of Macromolecular Chemistry (ICMPP), Iasi, Romania.

**Education:** **1995:** Chemistry-Physics, Faculty of Chemistry, “Al. I. Cuza” University of Iasi (UAIC); **1998:** Master in Solid State Chemistry, Faculty of Chemistry, UAIC; **2001:** PhD in Chemical Engineering, Faculty of Chemical Engineering and Environmental Protection “Cristofor Simionescu”, "Gheorghe Asachi" Technical University of Iași; **2011:**

**Professional experience:** **2000** - Universite de Poitiers, Poitiers, France; **2001** – ICMPP, Iasi, Romania; **2006, 2007** (2 months): Ecole des Mines de Paris, Centre de Mise en Forme des Matériaux, Sophia-Antipolis, France; **2006, 2007** (3 months): Institute of Macromolecular Compounds of RAS, St. Petersburg, Russia; **2011** (3 months): Institut Européen des Membranes, Montpellier, France.

**Educator:** **2016 - present:** Lecturer at Environmental Engineering faculty, “Ion Ionescu de la Brad” University of Agricultural Sciences and Veterinary Medicine, Iasi, Romania (*Systems for control and measuring*). **2019:** Lecturer at the summer school of the Faculty of Applied Chemistry and Materials Science, Polytechnic University of Bucharest (*The use of magnetic nanoparticles as vectors for the transport of bioactive compounds*).

**Training courses:** **2011:** *Biomaterials*, University of Applied Sciences, Krems, Austria; **2012:** *Inorganic Membranes –past, present and beyond*, Montpellier 2 University, Sciences and Technology, Montpellier, France; **2012:** *Advances in biomaterials*, Scientific Station of Polish Academy of Sciences, Vienna, Austria; **2019:** *Intelligent nanoparticles for targeted delivery of bioactive compounds: preparation, characterization and applications*, Faculty of Applied Chemistry and Materials Science, Polytechnic University of Bucharest.

**Expertise fields:** Synthesis and characterisation of polymers, supramolecular compounds and metallic oxide nanoparticles; molecular modeling using calculations of quantum mechanics.

**Scientific achievements:** Development of new supramolecular compounds and nanostructured entities, capable of acting as drug delivery agents and to scavenge/inactivate reactive oxygen and nitrogen species in the human body.