Curriculum Vitae

PANDELE ANDREEA MADALINA

1. Date and place of birth: 29.07.1986, Rm. Valcea

2. Studies:

- High School "Economics College" from Rm. Valcea, 2001-2005.
- University POLITEHNICA of Bucharest – Faculty of Applied Chemistry and Material Science, Specialisation: Polymer Science and Engineering, BSc graduated in 2009 with general mark 9.32; MSc graduated in 2011 with general mark 10.
- University POLITEHNICA of Bucharest – Faculty of Applied Chemistry and Material Science – Doctor since 2014

3. Positions/Working places

- Postdoctoral researcher (project director) at University POLITEHNICA of Bucharest – Faculty of Applied Chemistry and Material Science, research topic synthesis and characterization of new injectable hydrogel based on functionalized graphene oxide and polypropylene fumarate with therapeutic effect for bone repaire
- Project director of GEX 72/25.09.2017
- Lecturer at University POLITEHNICA of Bucharest – Faculty of Applied Chemistry and Material Science (february 2017-present);
- Teaching assistant at University POLITEHNICA of Bucharest – Faculty of Applied Chemistry and Material Science (february 2015-january 2017)

4. Professional activity

-Fields of research interest: - Synthesis and characterization of nanocomposite based on graphene oxide for tissue engineering

- Synthesis and characterization of polymeric membranes for hemodialysis and water treatment

- 25 published papers in ISI-rated journals and 3 BDI

Representative papers

1. **Pandele A.M**., P. Neacsu, Cimpean A., Staras A.I., Miculescu F., Iordache A., Voicu S.I., Thakur V.K., Toader O.D., Cellulose acetate membranes functionalized with resveratrol by covalent immobilization for improved osseointegration, *Applied Surface Science,* 2018, 438, 2-13 (**IF: 3.387)**
2. Enache D.F., Vasile E., Simonescu C.M., Culita D., Vasile E., Oprea O., **Pandele A.M.**, Razvan A., Dumitru F., Nechifor G., Schiff base-functionalized mesoporous silica (MCM-41, HMS) as Pb(ii) adsorbents, RSC Advances, 2018, 8 (1), 176-189 (**IF: 2.936**)
3. **Pandele A.M**., Comanici F.E., Carp C.A., Miculescu F., Voicu S.I., Thakur V.K., Serban B.C., Synthesis and characterization of cellulose acetate-hydroxyapatite micro and nano composites membranes for water purification and biomedical application, *Vacuum,* 2017, 146, 599-605 (**IF: 1.530**)
4. **Pandele A.M**., Andronescu C., Vasile E., Radu I.C., Stanescu P., Iovu H., Non-covalent functionalization of GO for improved mechanical performances of pectin composite films, *Composite Part A: Applied Science and Manufacturing*, 2017, 103, 188-195 **(IF: 4.075)**
5. **Pandele A.M.,** Ionita M., Crica L., Vasile E., Iovu H., Novel Chitosan-poly(vinyl alcohol)/graphene oxide biocomposites 3D porous scaffolds, *Composite Part B: Engineering,* 2017, 126, 81-87 **(IF: 4.727)**
6. **A.M. Pandele,** M. Ionita, A. Lungu, E. Vasile, C. Zaharia, H. Iovu, Porous Chitosan/graphene oxide biocomposites for tissue engineering, *Polymer Composites*, 2017, 38 (2), 363-370 (**IF: 2.324**)
7. Neacsu P., Staras A.I., Voicu S.I., Ionascu I., Soare T., Uzun S., Cojocaru V.D., **Pandele A.M**., Croitoru S.M., Miculescu F., Cotrut C.M., Dan I., Cimpean A., Characterization and in vitro and in vivo assessment of a novel cellulose acetate-coated Mg-based alloy for orthopedic applications, *Materials, 2017,* 10 (7), 686. (**IF: 2.654)**

8. Voicu N.V, Crica L.E., **Pandele A.M**., Damian C.M., Vasile E., Ionita M., Graphene oxide reinforced gelatin-poly(vinyl alcohol) porous composites for biomedical applications, *Materiale Plastice*, 2016, 53 (3), 399-405 **(IF: 0.824)**
9. Ionita M., Crica L.E., Vasile E., Dinescu S., **Pandele M.A.,** Costache M., Haugen H.J., Iovu H., Effect of carboxylic acid functionalized graphene on physical-chemical and biological polysulfone porous films, Polymer, 2016, 92, 1-12 (**IF: 3.483**)
10. Ionita M., **Pandele A.M.**, Crica L.E., Obreja A.C., Preparation and characterization of polysulfone (ammonia-functionalized grapheme oxide composite membrane material, *High Performance Polymers*, 2016, 28 (2), 181-188 **(IF: 1.179)**
11. Ionita M., Crica L.E., Voicu S.I., **Pandele A.M.,** Iovu H., Fabrication of cellulose triacetate/grapheme oxide porous membrane, *Polymer for Advanced Technologies*, 2016, 27 (3), 350-357 **(IF: 1.907)**
12. Ionita M.D., Vizireanu S., Stoica S.D., Ionita M., **Pandele A.M.**, Cucu A., Stamatin I., Nistor L.C., Functionalization of carbon nanowalls by plasma jet in liquid treatment, *European Physical Journal D*, 2016, 70 (2), 31 **(IF: 1.288)**
13. Ionita M., Crica L.E., Vasile E., Dinescu S., **Pandele A.M**., Costache M., Haugen H.J., Iovu H., Effect of carboxylic acid functionalized grapheme on physical-chemical and biological performance of polysulfone porous films, *Polymers*, 2016, 92, 1-12 **(IF: 3.684)**
14. M. Ionita, E. Vasile, L.E. Crica, S.I. Voicu, **A. M. Pandele**, S. Dinescu, L. Predoiu, B. Galateanu, A. Hermenean. M. Costache, Synthesis, characterization and in vitro studies of polysulfone/graphene oxide composite membranes, *Composite Part B: Engineering*, 2015, 72, 108-115 **(IF: 4.727)**
15. **A.M. Pandele**, M. Ionita, L. Crica, S. Dinescu, M. Costache, H. Iovu, Synthesis, characterization and in vitro studies of graphene/Chitosan-polyvinyl alcohol films, *Carbohydrate Polymers*, 2014, 102 (1), 813-820 **(IF: 4,811)**
16. M. Ionita, A**.M. Pandele**, L. Crica, L. Pilan, Improving the thermal and mechanical properties of polysulfone by incorporation of graphene oxide, *Composite Part B: Engineering*, 2014, 59, 133-139 **(IF: 4.727)**
17. S. Dinescu, M. Ionita**, A.M**. **Pandele**, B. Galateanu, H. Iovu, A. Ardeleanu, M. Costache, A. Hermeneanu, In vitro cytocompatibility evaluation of chitosan/graphene oxide 3D

scaffold composites designed for bone tissue engineering, *Bio-Medical Materials and Engineering*, 2014, 24 (6), 2249-2256 **(IF: 0.7)**

18. **A.M. Pandele**, S. Dinescu, M. Costache, E. Vasile, C. Obreja, H. Iovu, M. Ionita, Preparation and in vitro, bulk, and surface investigation of chitosan/graphene oxide composite films, *Polymer Composites*, 2014, 34 (12), 2116-2124 **(IF: 2.324)**
19. S.I. Voicu, **A.M. Pandele**, E. Vasile, R. Rughinis, L. Crica, L. Pilan, M. Ionita, The Impact of sonication time through polysulfone-graphene oxide composite films properties, *Digest Journal of Nanomaterials and Biostructures*, 2013, 8 (4), 1389-1394 **(IF: 0,61)**
20. M. Ionita, H. Iovu, **M. A. Pandele**, Sodium alginate/graphene oxide composite films with enhanced thermal and mechanical properties, *Carbohydrate Polymers*, 2013, 94 (1), 339-344 **(IF: 4,811)**
21. I. Aprodu, I. Banu, A. Istrate, **A.M. Pandele**, E. Vasile, M. Ionita, Molecular dynamics analysis of bone morphogenetic protein-2 conformation and mechanical properties, *Digest Journal of Nanomaterials and Biostructures*, 2012, 8 (1), 81-87 **(IF: 0,61)**
22. C. Damian, **M.A. Pandele**, C. Andronescu, A. Ghebaur, S.A. Garea, H. Iovu, Epoxy-based nanocomposites reinforced with new amino functionalized multi walled carbon nanotubes, *Fullerenes, Nanotubes and Carbon Nanostructure*, 2011, 18, 197- 209. **(IF: 1.350)**
23. C.M. Petrea., C. Andronescu, **A.M. Pandele**, S.A. Garea, H. Iovu, Epoxy-based nanocomposites with amine modified single walled carbon nanotubes, *e-Polymers*, 2010, no.020. **(IF: 0.949)**
24. C.M. Petrea, C. Andronescu, **A.M. Pandele**, S.A. Garea, H. Iovu, Advanced characterization of modified carbon nanotubes epoxy-based composites, *Revista de Materiale Plastice*, 2008, 45, 42-46. **(IF: 0.824)**

Patent application

1.Procedeu de obținere a unor argile poroase heterostructurate utilizând polieteramine hidrofile, S.A. Gârea, A.I. Mihai, **A.M. Pandele**, H. Iovu, A. Sârbu, C. Nistor, E. Vasile, C. Păduraru (Giurescu)