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## Lista completa a publicatiilor

**Dr. Mariana Ionita** a publicat **53 de articole in jurnale peer reviewed**, alte 4 sunt inaintate spre publicare, are in total **775 de citari** si **h-index 13**. De asemenea, a publicat 4 capitole de carte si este editor al unei carti si a elaborat doua teze de doctorat.

### A. TEZE DE DOCTORAT

*Abordarea integrată experimentală/computațională pentru studierea permeabilității materialelor polimerice bioartificiale*, Bioinginerie, **2008**, Universitatea Politehnica din Milano, Italia

*Metode inovative pentru avansare în sinteza materialelor cu proprietăți controlate și aplicații în procese electrochimice*, Chimie, **2008**, Universitatea Politehnica din Bucuresti, Romania

### B. CĂRȚI ȘI CAPITOLE DE CĂRȚI

- i. Elena Alina Chiticaru, Sebastian Muraru, **Mariana Ioniță**, *From unidimensional carbonaceous materials to multidimensional structures through molecular modelling*, - book chapter in: Carbon-related Materials - in Recognition of Nobel Lecture by Prof. Akira Suzuki in IUMRS-ICAM-17, Edited by Satoru Kaneko, in curs de publicare (**2019**).
- ii. **Ionita M.**, Crica L., Vlascenu G.M., Iovu H., *An Introduction to Computer Simulation Methods for Biomaterials Design*, – book chapter in: Biomedical Engineering; Introduction to Current Approaches, ISBN 978-606-23-0582-6, **Edited by Mariana Ionita**, (**2016**)
- iii. Anca Hermenean, Sorina Dinescu, **Mariana Ionita**, Marieta Costache, *The Impact of Graphene Oxide on Bone Regeneration* – book chapter in: Therapies Advanced Techniques in Bone Regeneration, ISBN 978-953-51-2539-6, Edited by Alessandro Rozim Zorzi and Joao Batista de Miranda, (**2016**)
- iv. Redaelli A., Soncini M., Vesentini S., Votta E., Deriu M.A., Gautieri A., Fiore G.B., Montecvecchi F.M., Soren E., Aprodu I., **Ionita M.**, *Multiscale modelling in biomechanical applications*-book chapter in: The Nanomechanics in Italy, Research Signpost, Kerala, India, ISBN 978-81-308-0237-4, Edited by Nicola Pugno, (**2007**).

## ARTICOLE INDEXATE ISI

1. Vlăsceanu G.M., Iovu H., **Ionită M.**, Graphene inks for the 3D printing of cell culture scaffolds and related molecular arrays, *Composites Part B: Engineering*, Volum 162, pagini 712-723, 2019, FI=4.92.
2. Becheru, D.F., Vlăsceanu, G.M. Banciu, A., Vasile, E.,**Ionită, M.**, Burns, J.S. Optical graphene-based biosensor for nucleic acid detection; influence of graphene functionalization and ionic strength, *International Journal of Molecular Sciences*, Volum 19, 2018, FI=3.687 - Article
3. Amarandi RM, Becheru DF, Vlasceanu GM, **Ionita M**, Burns J.S, Advantages of Graphene Biosensors for Human Stem Cell Therapy Potency Assays, *Biomed research international*, 2018, FI=2.583.
4. **Ionită, M.**,Crică, L.E., Voicu, S.I., Dinescu, S., Miculescu, F., Costache, M., Iovu, H., Synergistic effect of carbon nanotubes and graphene for high performance cellulose acetate membranes in biomedical applications, *Carbohydrates Polymers*,Volum 183, 2018, Pagini 50-61-Article, FI=5.158.
5. Vlăsceanu, G.M., Amărăndi, R.M. **Ionită, M.**,Tite, T., Iovu, H., Pilan, L., Burns, J.S., Versatile graphene biosensors for enhancing human cell therapy, *Biosensors and Bioelectronics*, Volum 117, 2018, Pagini 283-302, Article, FI=8.173.
6. Hermenean A, Codreanu A, Herman H., Balta C., Rosu M., Mihali C.V., Ivan A., Dinescu S., **Ionita M.**,Costache, M., *Scientific Reports*, 2017, Volum 7, Article no 16641, FI=4.122 - Article
7. Pandele A.M, **Ionita M.**,CricaL,Vasile E., Iovu, H. Novel Chitosan-poly(vinyl alcohol)/graphene oxide biocomposites 3D porous scaffolds, *Composites Part B-Engineering*, 2017, Volum 126, Pagini 81-87, FI=4.98, Article
8. **Ionită M.**,Vlăsceanu G.M., Watzlawek A.A.,Voicu S.I., Burns J.S., Iovu H. Graphene and functionalized graphene: Extraordinary prospects for nanobiocomposite materials, *Composites Part B: engineering* , 2017, 121, pagini 34-57, FI=4.98 - Article
9. Bayrak, O., **Ionita, M.**, Demirci, E. and Silberschmidt, V.V., 2016. Optical properties of graphene-based materials in transparent polymer matrices. *Applied Physics Letters*, 109(8), p.081905, FI=3.495.
10. Crica, L.E., Wengenroth, J., Tiainen, H., **Ionita, M.** and Haugen, H.J., 2016. Enhanced X-ray absorption for micro-CT analysis of low density polymers. *Journal of Biomaterials science, Polymer edition*, 27(9), pp.805-823, FI=1.911.
11. Voicu, N.V., Crica, L.E., Pandele, A.M., Damian, C.M., Vasile, E., **Ionita, M.**, 2016.Graphene oxide reinforced gelatin-poly(vinyl alcohol) porous composites for biomedical applications(Article). *MaterialePlastice*, 53(3), pp 399-405, FI=1.248.
12. **Ionita, M.**, Crica, L.E., Vasile, E., Dinescu, S., Pandele, M.A., Costache, M., Haugen, H.J. and Iovu, H., 2016. Effect of carboxylic acid functionalized graphene on physical-chemical and biological performances of polysulfone porous films. *Polymer*, 92, pp.1-12, FI=3.483.
13. Bayrak, O., **Ionita, M.**, Demirci, E. and Silberschmidt, V.V., 2016. Effect of morphological state of graphene on mechanical properties of nanocomposites. *Journal of materials science*, 51(8), pp.4037-4046, FI=2.993.
14. **Ionita, M.**, Pandele, A.M., Crica, L.E. and Obreja, A.C., 2016. Preparation and characterization of polysulfone/ammonia-functionalized graphene oxide composite membrane material. *High Performance Polymers*, 28(2), pp.181-188, FI=1.047.

15. **Ionita, M.**, Crica, L.E., Voicu, S.I., Pandele, A.M. and Iovu, H., 2016. Fabrication of cellulose triacetate/graphene oxide porous membrane. *Polymers for Advanced Technologies*, 27(3), pp.350-357, FI=2.137.
16. Ionita, M.D., Vizireanu, S., Stoica, S.D., **Ionita, M.**, Pandele, A.M., Cucu, A., Stamatina, I., Nistor, L.C. and Dinescu, G., 2016. Functionalization of carbon nanowalls by plasma jet in liquid treatment. *The European Physical Journal D*, 70(2), pp.1-7, FI=1.393.
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18. **Ionita, M.**, Crica, L.E., Tiainen, H., Haugen, H.J., Vasile, E., Dinescu, S., Costache, M. and Iovu, H., 2016. Gelatin–poly (vinyl alcohol) porous biocomposites reinforced with graphene oxide as biomaterials. *Journal of Materials Chemistry B*, 4(2), pp.282-291, FI=4.776.
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25. Voicu, S.I., Pandele, M.A., Vasile, E., Rughinis, R., Crica, L., Pilan, L. and **Ionita, M.**, 2013. The impact of sonication time through polysulfone-graphene oxide composite films properties. *Digest Journal of Nanomaterials and Biostructures*, 8(4), pp.1389-1394, FI=0.673.
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33. **Ionita, M.** and Iovu, H., 2012. Mechanical properties, urea diffusion, and cell cultural response of poly (vinyl alcohol)—Chitosan bioartificial membranes via molecular modelling and experimental investigation. *Composites Part B: Engineering*, 43(5), pp.2464-2470, FI=4.92.
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#### ARTICOLE INDEXATE BDI

51. **Ioniță, M.**, DONISAN, N. and Brânzoi, I.V., 2010. Modelling mesoscale diffusion processes in a bioartificial membrane. *UPB Sci. Bull., Series B*, 72(1), pp.147-156.
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