

## LISTA DE LUCRARI – Conf. Dr. Ing. MÎNDROIU VASILICA MIHAELA

1. Tihan, G.T., **Mîndroiu, M.**, Rau, I., (...), Pawlicka, A., Zgarian, R.G., The electrochromic device performance with DNA based electrolyte, Materials Chemistry and Physics, 241, ISSN: 02540584, pp. 1223-1249, 2020.
2. Bunoiu, I., **Mîndroiu, M.**, Manole, C.C., Andrei, M., Nicoara, A., Vasilescu, E., Popa, M., Didilescu, A.C., Electrochemical testing of a novel alloy in natural and artificial body fluids. Annals of Anatomy, 217, pp. 54-59, ISSN:09409602, 2018.
3. R.G. Zgârian, G.T. Tihan, F.Kajzar, I. Rău, A. Pawlicka, **M. Mîndroiu\***, Chromophore doped DNA based solid polymer electrolyte for electrochromic devices, Arabian Journal of Chemistry, Volume 10, Issue 2, pp.232-239, 2017.
4. Huluba R, Pirvu C, Nicolescu C, Gheorghe M, **Mîndroiu M\***. Counter Electrode Based on PEDOT:PSS - TiO<sub>2</sub> NTs Films for Dye-sensitized Solar Cells. Mater Plast 53:130-4, ISSN: 0025-5289, 2016.
5. Pirvu C, **Mîndroiu M\***, Craciunescu O, Constantin D. The Bioactivity and Stability Evaluation of the PPy/Ca-P Hybrid Films on Titanium Alloy Implant. Mater Plast 53:722-6, ISSN: 0025-5289, 2016;
6. Popescu. S., **Mîndroiu M.**, Cabuzu D., Pîrvu C., The Roll of NaPSS Surfactant on the Ceria Nanoparticles Embedding in Polypyrrole Films, Journal of Nanomaterials, Volume 2016, 2016, Article number 9747931.
7. **M. Mîndroiu**, R.G. Zgârian, F. Kajzar, I. Rău, H.C.L. De Oliveira, A. Pawlicka, G.T. Tihan, DNA-based membranes for potential application, Ionics, 21(5), ISSN: 0947-7047, pp 1381-1390, 2015.
8. A. Pawlicka, A. Firmino, F. Sentanin, R.C. Sabadini, D.E.Q. Jimenez, C.C. Jayme, **M. Mîndroiu**, R.G. Zgarian, G.T. Tihan, I. Rau, M.M. Silva, A.F. Nogueira, J. Kanicki, F. Kajzar, Bio-inspired materials for electrochemical devices, Proc. SPIE 9652, Optics and Photonics for Counterterrorism, Crime Fighting, and Defence XI; and Optical Materials and Biomaterials in Security and Defence Systems Technology XII, ISSN: 0277-786X, pp. 96520U-96520U-11, 2015.
9. **Mîndroiu M.**, Pirvu C., Galateanu B., Demetrescu I., Corrosion behaviour and cell viability of untreated and laser treated Ti6Al7Nb alloys, Revista de chimie, 65 (3), ISSN: 00347752, pp. 328-334, 2014
10. **Mîndroiu M.**, C. Ungureanu, R. Ion, C. Pirvu, The effect of deposition electrolyte on polypyrrole surface interaction with biological environment, Applied Surface Science, 276, ISSN: 0169-4332, pp. 401– 410, 2013.
11. **Mîndroiu M.**, R. Ion, C. Pirvu, A. Cimpean, Surfactant-dependent macrophage response to polypyrrole-based coatings electrodeposited on Ti6Al7Nb alloy, Materials Science and Engineering C, 33(6), ISSN: 0928-4931, pp. 3353–3361, 2013.
12. **Mîndroiu M.**, C. Pirvu, A. Cimpean, I. Demetrescu, Corrosion and biocompatibility of Ppy/PEG coatong. electrodeposited on Ti6AlNb alloy, Materials and Corrosion, 64, (10), ISSN 0947-5117, pp. 926–931, 2013.

13. Ungureanu, C., Pirvu, C., **Mîndroiu, M.**, Demetrescu, I., Antibacterial polymeric coating based on polypyrrole and polyethylene glycol on a new alloy TiAlZr, Progress in Organic Coatings 75(4), ISSN: 0300-9440, pp. 349– 355, 2012.
14. Pirvu C., Demetrescu I., Drob P., Vasilescu E., Ivanescu S., **Mîndroiu M.**, Vasilescu C., Drob S. I., Corrosion behaviour of a new Ti-6Al-2Nb-1Ta alloy in various solutions, Materials and Corrosion, 62(10), ISSN:0947-5117, pp. 948-955, 2011.
15. **Mîndroiu M.**, Cristian Pirvu, Raluca Ion, Ioana Demetrescu, Comparing performance of nanoarchitectures fabricated by Ti6Al7Nb anodizing in two kinds of electrolytes, Electrochimica Acta, 56(1), ISSN: 0013-4686, pp. 193–202, 2010.
16. **Mîndroiu M.**, Pirvu C., Popescu S., Demetrescu I., Polypyrrole electrodeposition on Ti6Al7Nb alloy in aqueous and non-aqueous solution, Revista de chimie, 61 (4), ISSN 0034-7752, pp. 390-394, 2010.
17. Pirvu C., Demetrescu I., Drob P., Vasilescu E., Vasilescu C., **Mîndroiu M.**, Stancu R., Electrochemical stability and surface analysis of a new alkyd paint with low content of volatile organic compounds, Progress in Organic Coating, 68(4), ISSN: 0300-9440, pp. 274-282, 2010.
18. Popescu S., Pirvu C., **Mîndroiu M.**, Manole C., Demetrescu I., Electrochemical synthesis and characterization of Ti modified electrodes with polypyrrole – polyethylene glycol hybrid coating, Revista de chimie, 61 (3), ISSN 0034-7752, pp. 245-248, 2010.
19. Pirvu C., **Mîndroiu M.**, Popescu S., Demetrescu I., Electrodeposition of polypyrrole/poly(styrene sulphonate) composite coatings on Ti6Al7Nb alloy, Molecular Crystal and Liquid Crystal, 521, ISSN: 1542-1406, pp. 126-139, 2010.
20. Popescu S., Pirvu C., **Mîndroiu M.**, Demetrescu I., Enhancing the stability of Ppy film on Ti by PEG incorporation, Molecular Crystal and Liquid Crystal, 522, ISSN: 1542-1406, pp. 125-135, 2010.
21. Pirvu C., **Mîndroiu M.**, Demetrescu I., One-step potentiostatic electrodeposition of Polypyrrole coatings on Zinc coated steel surface, Key Engineering Materials, 415, ISSN 1662-9795, pp. 65-68, 2009.
22. Pirvu C., **Mîndroiu M.**, Stancu R., Bojin D., Demetrescu I., Scanning Electronic Microscopy in supporting electrochemical deposition and characterization of hybrid polymeric composite, Key Engineering Materials, 415, ISSN 1662-9795, pp. 69-72, 2009.
23. Pirvu C., Stancu R., Drop P., Vasilescu E., Vasilescu C., **Mîndroiu M.**, Influence of various binder of the protective properties of paint coatings, Key Engineering Materials, 415, ISSN 1662-9795, pp. 73-76, 2009.
24. **Mîndroiu M.**, Pirvu C., Popescu S., Demetrescu I., Polypyrrole as conducting polymer coating on Ti6Al7Nb alloy, Materiale Plastice, 46(4), ISSN 0025-5289, pp. 394-398, 2009.

- 25.** **Mîndroiu M.**, Cicek E., Ciubar R., In vitro behavior of Ti-6Al-7Nb alloy after various surface treatments modification, *Molecular Crystal and Liquid Crystal*, 486, ISSN 1542-1406, pp. 120=[1162]-132=[1174], 2008.
- 26.** **Mîndroiu M.**, Cicek E., Miculescu F., Demetrescu I., The influence of thermal oxidation treatment on the electrochemical stability of TiAlV and TiAlFe alloys and their potential application as biomaterials, *Revista de Chimie*, 58(9), ISSN 0034-7752, pp. 898-903, 2007.
- 27.** Popa M.V., Demetrescu I., Iordachescu D., Cîmpean A., Vasilescu E., Drob P., Vasilescu C., **Istrătescu (Mîndroiu) M.**, The relation between electrochemical tests and in vitro evaluation of titanium alloy biocompatibility, *Materials and Corrosion*, 58(9), ISSN 0947-5117, pp. 687-695, 2007.
- 28.** **Istrătescu (Mîndroiu) M.**, Oktar F., Demetrescu I., Tite T., Evalution of stability of some titanium implant in various simulated biological fluids , *Revista de Chimie*, 57(12), ISSN 0034-7752, pp. 1234-1237, 2006.
- 29.** Popa M.V., Popescu B., Demetrescu I., Vasilescu E., Drob P., Vasilescu C., **Istrătescu (Mîndroiu) M.**, Electrochemical behaviour of a titanium alloy in comparison with base metal, *Revista de Chimie*, 56(10), ISSN 0034-7752, pp. 999-1002, 2005.
- 30.** **Istrătescu (Mîndroiu) M.**, F. N. Oktar, Popescu B., Demetrescu I., The effect of bioglass coating on titanium in the increasing biocompatibility of titanium implants in various biological fluids. U.P.B., Sci. Bull., Series B, 67, No. 3, ISSN 1454-2331, pp. 3 – 10, 2005.
- 31.** **Istrătescu (Mîndroiu) M.**, Demetrescu I., Corrosion behavior of Ti-Al-Nb alloy used as implant material. U.P.B. Sci. Bull., Series B, 67, No. 3, ISSN 1454-2331, pp. 89 – 94, 2005.
- 32.** **Mîndroiu M.**, A.M. Manea, I. Rau, J. G. Grote, H. C. L. Oliveira, A. Pawlicka, F. Kajzar, DNA- and DNA-CTMA – novel bio-nanomaterials for application in photonics and in electronics, ROMOPTO 2012: Tenth Conference on Optics: Micro- to Nanophotonics III, edited by Valentin I. Vlad, Proceedings of SPIE, Vol. 8882, 888202 © 2013 SPIE, CCC code: 0277-786X/13/\$18 doi: 10.1117/12.2032258, ISSN: 0277-786X, pp. 8882021 – 88820212, 2013.
- 33.** **Mîndroiu M.**, Demetrescu I., Electrochemical Atomic Force Microscopy in supporting the control of diffusion process, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies IV, edited by Paul Schiopu, Cornel Panait, George Caruntu, Adrian Manea, Proceedings of the SPIE, Vol. 7297, 72970U (2009); doi:10.1117/12.823640, ISSN: 0277-786X, pp. 72970U-72970U-4, 2009.
- 34.** Popa M.V., Iordachescu D., Demetrescu I., Vasilescu E., Drob P., Cimpean A., **Istrătescu (Mîndroiu) M.**, Vasilescu C., In vitro biocompatibility and electrochemical behavior of titanium and its alloys, Proceedings of 2006 International Conference on Microtechnologies in Medicine and Biology, Okinawa, Japan 9-1 2 May 2006, Article number 4281295, ISBN 9781424403370, pp. 12-15, 2006.