

LISTĂ LUCRĂRI PUBLICATE

Lector univ. dr. MATICA Mariana – Adina

Teză de doctorat: *Proprietățile antimicrobiene ale unor biomateriale pe bază de chitosan*

Conducător teză: Prof. Dr. Vasile OSTAFE

ARTICOLE PUBLICATE ÎN REVISTE INDEXATE WEB OF SCIENCE (WoS)

1. Okolisan, D., Potinteu, AI., Vlase, G., Budiul, MM ., **Matica, MA.**, Pahomi, A., Mogos, A., Vlase, T., Novel Ternary Biopolymer Films Incorporating Amygdalin: FTIR, TG, and In Vitro Evaluation on Model Bacteria, *Materials* **2026**, 19(5), 897, DOI10.3390/ma19050897
2. Nan, A., Mituletu, M., Dumitrescu, G., Caraba, I. V., Pet, I., Sinitean, A., **Matica, M. A.**, Liliana, P. C., Pet, E., Popescu, R., & Caraba, M. N. Antimicrobial and Biofilm Inhibiting Potential of Two Romanian Linden Honey. *Foods*, 2025, 14(21), 3594.
3. Okolišan, D., Vlase, G., Budiul, M. M., **Matica, M. A.**, Vlase, T., Amygdalin-Doped Biopolymer Composites as Potential Wound Dressing Films: In Vitro Study on E. coli and S. aureus, *Gels*. 2025; 11(8):609.
4. Roman, D.-L.; **Matica, M.A.**; Boros, B.-V.; Vulpe, C.-B.; Isvoran, A. Evaluation of the Impact of Flutriafol on Soil Culturable Microorganisms and on Soil Enzymes Activity. *Agriculture* **2024**, 14, 1445. <https://doi.org/10.3390/agriculture14091445>. IF 3,600. Q1
5. Vulpe, C. B.; Boros, B. V., **Matica, M.A.**; Menghiu, G., Roman, D. L., Dascalu, D.; Kovačević, R.; Ostafe, V., Hydrochemical and Ecotoxicological Characterisation of Water Samples from Moldova Noua Area, Romania, *Eco. Chem. Eng. S.*, vol.30, no.3, **2023**, pp.357-372. <https://doi.org/10.2478/eces-2023-0038>. IF 2,500. Q4
6. Roman, D. L., **Matica, M.A.**; Ciorsac, A.; Boros, B. V., Isvoran, A., Effects of the fungicide myclobutanil on the soil enzymes activity, *Agriculture*, **2023**, 13(10), 1956 <https://doi.org/10.3390/molecules27186123>. IF 4,600. Q2
7. Vulpe, C.B.; **Matica, M.A.**; Kovačević, R.; Dascalu, D.; Stevanovic, Z.; Isvoran, A.; Ostafe, V.; Menghiu, G. Copper Accumulation Efficiency in Different Recombinant Microorganism Strains Available for Bioremediation of Heavy Metal-Polluted Waters. *Int. J. Mol. Sci.* **2023**, 24, 7575. <https://doi.org/10.3390/ijms24087575>, IF=5.8, Q1
8. **Matica, M. A.**, Roman, D. L., Ostafe, V., Isvoran, A., Deeper inside the use of chitooligosaccharides in wound healing process. A computational approach, *J. Serb. Chem. Soc.*, **2023**, 88 (3) 251–265. <https://doi.org/10.2298/JSC220702081M> IF=1,1 Q3
9. Roman, D. L., Voiculescu, D.I., **Matica, M. A.**, Baerle, V., Filimon, M. N., Ostafe, V., Isvoran, A., Assessment of the Effects of Triticonazole on Soil and Human Health, *Molecules*, **2022**, 27(19), 6554. <https://doi.org/10.3390/molecules27196554>. IF 4,927, Q2
10. **Matica, M., A.**, Aachmann, F., L., Tøndervik, A., Sletta, H., Ostafe, V., Preparation, physico-chemical characterization and antibacterial properties of chitosan and chitosan–nisin membranes, *Studia UBB Chemia*, **2022**, LXVII(1). <https://doi.org/10.24193/subbchem.2022.1.14> IF 0,3, Q4
11. **Matica, M., A.**, Aachmann, F., L., Tøndervik, A., Sletta, H., Ostafe, V., Chitosan as a Wound Dressing Starting Material: Antimicrobial Properties and Mode of Action, *Int. J. Mol. Sci.* 2019, 20(23). <https://doi.org/10.3390/ijms20235889> IF 4,183, Q2

ARTICOLE PUBLICATE ÎN REVISTE INDEXATE BDI

12. Sîrbu, P., Lionte, A., Moț, D.L., Ianuș, R.D., Vulpe, C.B., Agachi, B.V., **Matica, M.A.**, Iachimov-Datcu, A.D., Preliminary investigation on some vegetal hydrogels indices, Annals of West University of Timișoara, ser. Biology, 2025, vol. 28 (2), pp.223-232
13. Căbuța, M., Carabă, M.N., **Matica, M. A.**, Boroș, B.V., Carabă, I.V., Dumitrescu, G., Popescu, R., In vitro cytotoxic effect of Boswellia sp. essential oil, Annals of West University of Timișoara, ser. Biology, 2022, 25(2) pp.153-164
14. **Matica, M., A.**, Menghiu, G., Ostafe, V., Biodegradability of Chitosan Based Products, New. Front. Chem. 2017, 26(1):75-86.
15. **Matica, M., A.**, Menghiu, G., Ostafe, V., Toxicity of Chitosan Based Products, New. Front. Chem. 2017, 26(1):65-74.
16. **Matica, M., A.**, Menghiu, G., Ostafe, V., Antifungal Properties of Chitosans, New. Front. Chem. 2017, 26(1): 55-63.
17. **Matica, M., A.**, Menghiu, G., Ostafe, V., Antibacterial Properties of Chitosans, New. Front. Chem. 2017, 26(1): 39-54.
18. Boroș, B. V., Menghiu, G., **Matica, M. A.**, Ostafe, V., Use of Ninhydrin Reaction for Estimation of Acetylation Degree of Chitosan, New. Front. Chem. 2016, 25(2):95-105.
19. Vulpe, B., Menghiu, G., **Matica, M. A.**, Ostafe, V., Estimation of the Molecular Weight of Chitosan by PAGE, New Front. Chem. 2016, 25(2):135-143.
20. Zbîrcea, R. I., Menghiu, G., **Matica, M., A.**, Ostafe, V., Use of 3,5-Dinitrosalicylic Acid Reaction to Study the Chitosan Hydrolysis, New Front. Chem. 2016, 25(2):145-153.
21. Ianovici, N., Ciocan, G.V., **Matica, M. A.**, Scurtu, M., Șesan, T.E., Study on the infestation by *Cameraria ohridella* on *Aesculus hippocastanum* foliage from Timișoara, Romania, Annals of West University of Timișoara, ser. Biology, 2012, XV (1): 67-80.
22. Ianovici, N, **Matica, M. A.**, Scurtu, M., Contribution to the knowledge of leaf galls from Western Romania, Annals of West University of Timișoara, ser. Biology, 2010, 13: 135-144.