

LISTA COMPLETĂ DE LUCRĂRI

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1. 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**, Volume 88, Issue 3, Pages: 251-265
<https://doi.org/10.2298/JSC220702081M>
2. Roman, D. L.[†], Matica, M. A.[†], Ciorsac, A., Boros, B. V., Isvoran, A., *The Effects of the Fungicide Myclobutanil on Soil Enzyme Activity*, Agriculture **2023**, 13(10), 1956
<https://doi.org/10.3390/agriculture13101956>
3. 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>
4. Matica, M. A., Aachmann, F. L., Tøndervik, A., Sletta, H., Ostafe, V., *Chitosan as Wound Dressing Starting Material: Antimicrobial Properties and Mode of Action*, Int. J. Mol. Sci. **2019**, 20(23), 5889;
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5. Vulpe, C. B.; Boros, B. V., Matica, M. A., Menghiu, G., Roman, D. L., Dascalu, D. Kovacevic, R., Ostafe, V., *Hydrochemical and Ecotoxicological Characterisation of Water Samples from Moldova Noua Area, Romania*, Ecol Chem Eng S. **2023**;30(3): 357-372
<https://doi.org/10.2478/eces-2023-0038>
6. Vulpe, C. B., Matica, M. A., Kovacevic, 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., 24(8), 7575, **2023**,
<https://doi.org/10.3390/ijms24087575>
7. 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>

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1. **Matica, M., A.**, Menghiu, G., Ostafe, V., *Biodegradability of Chitosan Based Products*, New. Front. Chem. **2017**, 26(1):75-86.
2. **Matica, M., A.**, Menghiu, G., Ostafe, V., *Toxicity of Chitosan Based Products*, New. Front. Chem. **2017**, 26(1):65-74.
3. **Matica, M., A.**, Menghiu, G., Ostafe, V., *Antifungal Properties of Chitosans*, New. Front. Chem. **2017**, 26(1): 55-63.

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5. 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
6. 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.
7. 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.
8. 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.
9. 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, XV (1): 67-80.
10. 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, 13: 135-144.

Teză de doctorat

Domeniul: Chimie

Titlu: Proprietățile antimicrobiene ale unor biomateriale pe bază de chitosan

Conducător teză: Prof. Dr. Vasile OSTAFE