

LISTA CELOR 10 LUCRĂRI ȘTIINȚIFICE CONSIDERATE RELEVANTE PENTRU TEZA DE ABILITARE

Dr. Ing. Anamaria TODEA

1. **A. Todea**, I. Bîțcan, M. Giannetto, I. Rădoi, R. Bruschi, M. Renzi, S. Anselmi, F. Provenza, T. Bentivoglio, F. Asaro, F.; et al. Enzymatic Synthesis and Structural Modeling of Bio-Based Oligoesters as an Approach for the Fast Screening of Marine Biodegradation and Ecotoxicity. *Int. J. Mol. Sci.* 2024, 25, 5433, doi.org/10.3390/ijms25105433.
2. A. R. Buzatu, M. A. Soler, S. Fortuna, O. Ozkilinc, D. M. Dreavă, I. Bîțcan, V. Badea, P. Giannozzi, F. Fogolari, L. Gardossi, F. Peter, **A. Todea***, C.G. Boeriu, Reactive natural deep eutectic solvents increase selectivity and efficiency of lipase catalyzed esterification of carbohydrate polyols, *Catalysis Today*, 2023, 114373, <https://doi.org/10.1016/j.cattod.2023.114373>.
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4. I. Bîțcan, A. Pellis, A. Petrovici, D.-M. Dreavă, I. Păușescu, F. Peter, L. Nagy, S. Kéki, L. Gardossi, **A. Todea***, One-pot green synthesis and characterization of novel furan-based oligoesters, *Sustainable Chemistry and Pharmacy* 2023, 35, 101229, doi.org/10.1016/j.scp.2023.101229.
5. **A. Todea**, S. Fortuna, C. Ebert, F. Asaro, S. Tomada, M. Cesugli, F. Hollan, L. Gardossi, Rational guidelines for the two-step scalability of enzymatic polycondensation: experimental and computational optimization of the enzymatic synthesis of poly (glycerolazelate), *ChemSusChem*, 2022, 2, 23, <https://doi.org/10.1002/cssc.202102657>
6. I. Bîțcan, A. Petrovici, A. Pellis, S. Klébert, Z. Károly, L. Bereczki, F. Péter, F., **A. Todea*** Enzymatic route for selective glycerol oxidation using covalently immobilized laccases, *Enzyme and Microbial Technology*, 2023, 163, <https://doi.org/10.1016/j.enzmictec.2022.110168>.
7. **A. Todea**, I. C. Benea, I. Bîțcan, F. Péter, et al., One-pot biocatalytic conversion of lactose to gluconic acid and galacto-oligosaccharides using immobilized β -galactosidase and glucose oxidase, *Catalysis Today*, 2021, 366, 202-211, <https://doi.org/10.1016/j.cattod.2020.06.090>.

8. C. Vasilescu, **A. Todea***, A. Nan, M. Circu, R. Turcu, I.-C. Benea, F. Peter, Enzymatic synthesis of short-chain flavor esters from natural sources using tailored magnetic biocatalysts, *Food chemistry*, 2019, 298, 1-8, <https://doi.org/10.1016/j.foodchem.2019.05.179> .
9. **A. Todea**, I. Bîtcă, D. Aparaschivei, et al., Biodegradable oligoesters of ϵ -caprolactone and 5-hydroxymethyl-2-furancarboxylic acid synthesized by immobilized lipases, *Polymers*, 2019, 11(9), 1402, <https://doi.org/10.3390/polym11091402>.
10. **A. Todea**, P. Borza, A. Cimporescu, C. Paul, F. Peter, Continuous kinetic resolution of aliphatic and aromatic secondary alcohols by sol-gel entrapped lipases in packed bed bioreactors, *Catalysis Today*, 2018, 306, 223-232, <https://doi.org/10.1016/j.cattod.2017.02.042>.