

PhD. Student Mădălina-Ioana NECOLAU (PISCANU)
List of papers that include data from the thesis

PAPERS LIST

1. **Necolau M.I.**, Biru E.I., Ghitman J., Stavarache C., Iovu H., (2022). “Insightful characterization of sesamol-based polybenzoxazines: Effect of phenol and amine chain type on physical and nanomechanical properties”, *Polymer Testing*, 110, 107578, Q1, IF 6
2. **Necolau M.I.**, Grigore D., Stavarache C., Ghitman J., Biru E.I., Iovu H., (2023).” Synthesis and thermo-mechanical characterization of vanillin-based polybenzoxazines with complex architecture”, *UPB Sci. Bull. Ser. B*, Vol. 85, Iss. 1, Q4, IF 0.3
3. **Necolau M.I.**, Biru E.I., Aldrigo M., Olăreț E., Zaharia A., Ciuprina G., Iovu H., (2025). “A ternary multiscale nanocomposite system based on functionalized graphene oxide, carbon fibers and bio-based polybenzoxazine for electromagnetic shielding”, *Materials Advances*, 2025,6, 8968-8987, Q1, IF 4.7
4. **Necolau M.I.**, Biru E.I., Olăreț E., Iovu H., (2025).” Multi-functional hybrid terpolymer thermosets based on thiols bio-based epoxy and benzoxazine monomers”, *Polymers*, 17, 2389, Q1, IF 4.9

SCIENTIFIC MEETINGS ATTENDED

1. **M.I. Necolau**, E.I. Bîru, S. Gârea, H. Iovu, *Synthesis and characterization of novel polyethyleneimine bio-based benzoxazine resins*, 4th International Symposium on Polybenzoxazines - ISPBZ 2021, poster presentation
2. **M.I. Necolau**, E.I. Bîru, A.R. Stefan, H. Iovu, *Advanced Bio-sourced Polybenzoxazines with Tunable Properties*, 22nd Romanian International Conference on Chemistry and Chemical Engineering 2022 Sinaia Romania, oral presentation
3. **M.I. Necolau**, E.I. Bîru, H. Iovu, *Designing novel high-performance asymmetrical benzoxazine monomer through green chemistry*, 3rd International Conference on Bioengineering and Polymer Science – 2023, Bucuresti, Romania, oral presentation
4. **M.I. Necolau**, E.I. Bîru, B. Bălănuță, H. Iovu, *Advancing sustainability: bio-based thermoset nanocomposites for a greener future*, 23rd Romanian International Conference on Chemistry and Chemical Engineering 2024 Constanta-Mamaia, Romania, oral presentation
5. **M.I. Necolau**, C. Pauliuc, A.R. Stefan, E.I. Bîru, H. Iovu, *Exploiting thiol-ene click for biocompatible benzoxazine-thiol copolymers: unveiling synergistic effects on mechanical properties*, 23rd Romanian International Conference on Chemistry and Chemical Engineering 2024 Constanta-Mamaia, Romania, poster presentation
6. **M.I. Necolau**, E.I. Bîru, H. Iovu, *Bio-derived polybenzoxazines for advanced applications. Insightful thermal and mechanical characterization*, 8th International Conference on Multifunctional, Hybrid and Nanomaterials, Montpellier Franta 2025, oral presentation

7. **M.I. Necolau**, E.I. Bîru, H. Iovu, *Ternary multiscale nanocomposite systems based on functionalized graphene oxide, carbon fibers and bio-based polybenzoxazine*, 8th International Conference on Multifunctional, Hybrid and Nanomaterials, Montpellier Franta 2025 - poster presentation