

Małgorzata Baśko

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Scopus bibliometric data: citations 602 · documents 43 · h-index 18

Currently held positions _____

Department of Functional Polymers and Polymeric Materials, Centre of Molecular and Macromolecular Studies of the Polish Academy of Sciences

Łódź

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Scientific profile and collaborations _____

My research interests are focused on synthesizing and characterizing polymers for diverse applications, including drug carriers, adsorbents, and hydrogels. I specialize in:

- Metal-free polymerization of cyclic esters: Utilizing protic acids as catalysts and alcohols as initiators.
- Synthesis of aliphatic (co)polyesters with controlled degradability: Enabling decomposition into simpler substances at user-defined stages.
- $\hbox{-} Design of covalent polymer networks: Incorporating segments with varied structures and chemistries.\\$

Selected research projects are carried out in collaboration with the Slovak Academy of Sciences (Department of Synthesis and Characterization of Polymers, Bratislava), the Romanian Academy of Sciences ("Petru Poni" Institute of Macromolecular Chemistry, Iaşi), and Ghent University (Belgium).

Selected publications _____

- Synthesis and properties of L-lactide/1,3-dioxolane copolymers: preparation of polyesters with enhanced acid sensitivity)
- .021 Ilink
- 2022 Poly(2-isopropenyl-2-oxazoline) as a reactive polymer for materials development [link]
- 2023 Covalent segmented polymer networks composed of poly(2-isopropenyl-2-oxazoline) and selected aliphatic polyesters: designing biocompatible amphiphilic materials containing degradable blocks [link]

Research grants _____

Principal Investigator: 1 grant: NCN **Co-Investigator:** 6 grants: NCN, Wacker

Bilateral projects: Polish/Belgian, Polish/Slovak, Polish/Romanian

Obtained patents _____

1 patent

International research stays _____

Belgium, Ghent University, Professor Filip Du Prez, research project: "Segmented polymer networks-precursor material for potentiometric sensors"

Belgium, Leuven University, Professor Ivo Vankelecom, research project: "Synthesis of solvent resistant nanofiltration membranes based on segmented polymer networks"