

CV

Personal details:

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Educational background:

2023-still	<p>Ph.D. studies AGH University of Science and Technology in Kraków, Faculty of Geology, Geophysics and Environmental Protection</p> <p>Discipline: Earth and related environmental sciences</p> <p>Doctoral theses: <i>Application of functionalized zeolite materials for the separation of metals and metalloids from aqueous solutions</i></p> <p>Supervisor: prof. Tomasz Bajda</p>
2023	<p>M.Sc. title AGH University of Science and Technology in Kraków, Faculty of Geology, Geophysics and Environmental Protection.</p> <p>Branch: Environmental Protection and Engineering</p> <p>M.Sc. thesis: <i>Functionalized zeolites as sorbents for anionic forms of metals and metalloids</i></p> <p>Supervisor: prof. Tomasz Bajda</p>
2023	<p>P.Gd. Cracow University of Economics Cracow School of Business</p> <p>Branch: Business management - MBA managerial studies</p>
2023	<p>B.Sc. title University of Agriculture in Krakow Faculty of Forestry</p> <p>Branch: Forestry</p> <p>B.Sc. thesis: <i>Use of zeolites to assess changes in the soil environment under</i></p>

	<i>the influence of warming.</i> Supervisor: prof. Piotr Gruba
2022	B.Sc. title AGH University of Science and Technology in Kraków, Faculty of Geology, Geophysics and Environmental Protection. Branch: Environmental Engineering B.Sc. thesis: <i>Arsenic and vanadium sorption on modified zeolites.</i> Supervisor: prof. Tomasz Bajda

Research interest:

- Application of natural and synthetic mineral sorbents for sorption of inorganic (metals, metalloids) and organic (dyes, pesticides, VOCs) contaminants from solutions
- Modification of minerals to obtain functional mineral materials
- Determination of sorption properties of natural and modified minerals
- Adsorptive nanocomposite membranes
- Chemistry, mineralogy and thermodynamic stability of heavy metal
- Determination of soils contaminations and their remediation using functionalized materials
- 3D printing using Direct Ink Writing methods

Research grants

2023-2022	Grant FNP TEAM-NET - Fly ash as the precursors of functionalized materials for applications in environmental engineering, civil engineering and agriculture (Student internship) Principal Investigator of Consortium: Prof. Wojciech Franus
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Conferences / lectures / workshops

2023.09.06-08	<i>WASTES 2023: 6th International conference: wastes: solutions, treatments, opportunities</i> Co-author of 1 oral presentation: The use of fly ash transformation products as sorbents to remove contaminants from water and wastewater
2022.10.20-23	<i>27th Meeting of the Petrology Group of the Mineralogical Society of Poland</i> Co-author of 1 oral presentations: <i>The application of fly ash chemical transformation products in environmental engineering</i>