Scientific CV

Personal details

First and last name: Anna Jędras

Scientific websites and databases:

- **WWW**: www.mba-group.agh.edu.pl
- **ORCID**: 0000-0002-1737-1014 (*https://orcid.org/0000-0002-1737-1014*)
- Web of Science: https://www.webofscience.com/wos/author/record/HJY-7979-2023
- **ResearchGate**: https://www.researchgate.net/profile/Anna-Jedras
- **Scopus**: 57946778100 (https://www.scopus.com/authid/detail.uri?authorId=57946778100)
- LinkedIn: https://www.linkedin.com/in/anna-jędras-663159211/

Education – diplomas and degrees

	PhD in Earth and Environmental Sciences
2022-	AGH, WGGiOŚ
present	PhD thesis: <i>Mineral composites derived from layered crystal structures for the photodegradation of organic pollutants in a dynamic flow-through reactor</i>
	Supervisor: prof. Jakub Matusik
	MSc title
	AGH, WGGiOŚ
2021- 2022	Branch: Engineering and Environmental Protection, specialization: Mineral Functional Materials
2022	MSc thesis: Impregnation of montmorillonite with LDH materials of different chemistry – towards adsorbents with dual adsorption properties
	Supervisor: prof. Jakub Matusik
	B.Eng. title
	AGH, WGGiOŚ
2017-	Branch: Environmental Engineering
2021	B.Eng. thesis: Examination and assessment of surface water quality in selected areas of the industrial city of Sosnowiec
	Supervisor: dr Sylwia Zelek-Pogudz

Research interest

- Chemical and mineralogical characterization of layered minerals (clay minerals, LDH).
- Modification of minerals in order to obtain functional mineral materials e.g. adsorbents, catalysts, photocatalysts.
- Determination of adsorption properties of mineral-based materials derived mainly from layered minerals.
- Synthesis, structural, and mechanical properties of nanocomposites based on clays.

- Photoactive mineral-based nanomaterials.
- Chemical and mineralogical characteristics of synthetic phosphate minerals containing rare earth elements.

Research grants

2022	Grant IDUB – Support for Students' Research Groups , 24 000 PLN Synthetic analogues of phosphoschultenites (Pb,REE)HPO ₄ rich in REE – basic research for technologies of the future.
	(Project coordinator) – project completed.

Conferences

Presentations

	<i>EuroClay 2023 - International Conference of European Clay Groups</i>
	Association, Bari, Italy
	Lecture:
2023.07.24-27	Visible light-induced degradation of dyes by layered double hydroxides
	supported on clay minerals: the synergistic effect of adsorption-
	photocatalysis
	2023 The Clay Minerals Society Annual Meeting, Austin, TX, USA
2023.05.20-25	Lecture:
2023.05.20-25	Layered double hydroxides supported by clay minerals as photocatalysts
	for visible light-driven degradation of organic pollutants
	10 th Mid-European Clay Conference, Kliczków, Poland
2022.09.11-15	Poster:
2022.09.11-15	Heterocoagulated materials based on smectite and layered double
	hydroxides of different chemistry with dual adsorption properties
	XVII International Clay Conference, Istanbul, Türkiye
2022 07 25 20	Poster:
2022.07.25-29	Impregnation of smectite with layered double hydroxides of different
	chemistry for simultaneous removal of Cr(III) and acid blue dye
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Presentations given by the co-authors

	European Geoscience Union General Assembly 2023, Vienna, Austria	
2023.04.23-28	Co-author of presentation:	
2023.04.23-20	Impact of Pb ²⁺ presence on precipitation of REE phosphates (analogues	
	of rhabdophane) from aqueous solutions	
	European Geoscience Union General Assembly 2022, Vienna, Austria	
2022.05.23-27	Co-author of presentation:	
2022.05.25-27	The influence of the synthesis procedure on the morphology of REE	
	enriched Pb-apatite (pyromorphite)	

Conference organization

- 2023 European Geoscience Union General Assembly 2023 Conference Assistant
- **2022** *10th Mid-European Clay Conference, Kliczków, Poland* member of the Organizing Committee

Membership in international or national organizations and scientific societies

• 2022-present: The Clay Minerals Society (member)

Internships completed in scientific institutions

	International Internship Pilot Programme at Dong Hwa University,
2023.10-12	Taiwan - electrochemical studies of photocatalysts
	Intern
	Workshop on basic concepts and operational principles of HPLC,
2023.01.09	Shimadzu Corporation, Kraków, Poland
	Participant in the workshop
	Workshop on Introduction to Quantitative X-ray Diffraction (QXRD)
2022.05.09-18	Analysis Course (online)
	Participant in the workshop
	Phosphorus Recovery - challenges and perspectives in V4 Workshop
2022.05.06	(online)
	Participant in the workshop
2021.11.22-26	MonGOS Winter School 2021, Kraków, Poland
2021.11.22-20	Participant in the workshop

Awards and distinctions

Year	Description
2023	Initiative for Excellence Research University scholarship for the best PhD candidates (IDUB Działanie 5, 3 rd edition).
2023	AGH Rector Scholarship for scientific achievements
2023	Student Travel Award – EuroClay 2023 - International Conference of European Clay Groups Association
2023	Student Travel Award - 2023 The Clay Minerals Society Annual Meeting (Clay Minerals Society)
2022	Scholarship for being in the top 30% of PhD candidates with the highest recruitment score
2022	Student Travel Award - 17th International Clay Conference (Clay Minerals Society)

2021	1st prize awarded at the MonGOS Winter School 2021, group challenge for designing a wastewater treatment plant of the future
2019-2022	AGH Rector Scholarship for academic achievements

Kraków, 11th January 2024