

CV

Personal details:

Surname:	Andrunik (Tuchowska)
Name:	Magdalena
Address (Office):	Department of Mineralogy, Petrography and Geochemistry Faculty of Geology, Geophysics and Environmental Protection AGH University of Science and Technology al. Mickiewicza 30, 30-059 Kraków, Poland
Mobile:	(+48) 732 601 921
E-mail:	magtuch@agh.edu.pl

Educational background:

now	Ph.D. in Earth Sciences studies , discipline: geology. AGH University of Science and Technology in Kraków, Faculty of Geology, Geophysics and Environmental Protection. Ph.D. thesis: <i>Sorption of pesticides on zeolites and zeolite composites modified with cationic and non-ionic surfactants.</i> Supervisor: Tomasz Bajda, Ph.D.
2016	M.Sc. title AGH University of Science and Technology in Kraków, Faculty of Geology, Geophysics and Environmental Protection. Branch: Environmental Engineering , specialization: Mineral Engineering. M.Sc. thesis: <i>Sorption of As(III) compounds on bog iron ores.</i> Supervisor: Tomasz Bajda, Ph.D.
2015	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>Sorption of As(V) compounds on natural and modified mineral sorbents.</i> Supervisor: Tomasz Bajda, Ph.D.

Research interest:

- Efficiency and mechanisms of heavy metals immobilization using natural and modified mineral
- Arsenic interactions with bog iron ores
- Modification of clay minerals using mixed ionic-nonionic surfactants
- Electrokinetic remediation of soils contaminated with pesticides
- Removal of pesticides using modified clay minerals
- Controlled release formulations of pesticides
- Microencapsulation of pesticides
- Electrokinetic soil flushing to pesticides

Scientific experience:*Conferences / lectures / workshops*

2020.05.04-08	<i>EGU General Assembly 2020</i> Online presentation Effect of surfactants adsorption on the structure of bentonite-based sorbents
2019.09.16-17	<i>4th Mineral-based Sorbents conference, Kraków, Poland</i> Oral presentation: Atrazine sorption on clay minerals modified with organic surfactants – review
2019.07.01-05	<i>International Conference on Clay Science and Technology EUROCLAY2019, Paris, France</i> Poster presentation: Modification of bentonite with mixed cationic-nonionic surfactants Co-author of oral presentation: Sorption of molybdates and tungstates on modified smectites
2018.10.25-28	<i>XXVth Meeting of the Petrology Group of the Mineralogical Society of Poland, Brunów, Poland</i> Poster presentation: Batch and column sorption of As(V) onto bog iron ores
2018.09.12-14	<i>The 11th Geosymposium of Young Researchers “Silesia 2018”, Istebna, Poland.</i> Oral presentation: Competitive adsorption of As and heavy metals on bog iron ores
2018.04.05-07	<i>XIX International Conference of Young Geologists, Herlany, Slovakia</i> Oral presentation: Bentonite modified with ionic—nonionic surfactants as a sorbent of pesticides
2016.04.14-16	<i>XVII International Conference of Young Geologists, Svätý Jur, Slovakia</i> Oral presentation: Arsenic interactions with bog iron ores
2015.09.21-23	<i>2nd Mineral-based Sorbents Conference, Kraków, Poland</i> Oral presentation:

 Sorpcja związków arsenu na darniowych rudach żelaza

Teaching experience

- **Chemistry**
In Polish: Chemia (1st degree, 1st year, IŚ, GiG) (2018 – now)
- **Environmental geochemistry**
In Polish: Geochemia środowiska (2nd degree, 1st year, specialization Environmental assessment, OŚ) (2017 – 2018)
- **Environmental mineralogy and geochemistry**
In Polish: Mineralogia i geochemia środowiska (2nd degree, 2nd year, specialization Mineral engineering, IŚ) (2017 – 2018)

Achievements / awards:

2019	The Clay Minerals Society Student Travel Award for the Conference: International Conference on Clay Science and Technology EUROCLAY2019, Paris, France
2018	The best poster presentation presented during XXV th Meeting of the Petrology Group of the Mineralogical Society of Poland, Brunów, Poland

Parametric summary of the scientific output

Citations (*Web of Science*): **11**, without auto-citations: **9**

Hirsch index (*Web of Science*): **2**

Citations (*Scopus*): **12**, without auto-citations: **9**

Hirsch index (*Scopus*): **2**

Membership:

- Mineralogical Society of Poland (member) 2018 – present
- Clay Minerals Society (member) 2019 - present

Kraków, 16.12.2020