## **Curriculum Vitae**

Personal Information	Name	Maciej Manecki	Gender	Male		
	Academic Title	professor				
	College	AGH University of Science and Technology				
	Discipline	Earth and Environmental Sciences				
	Email	gpmmanec@cyf-kr.edu.pl				
	Mail Add.	AGH Krakow WGGiOS, al. Mickiewicza 30, 30-065 Krakow, POLAND				
	2009 habilitation in app	abilitation in applied geochemistry, AGH Krakow				
Educational	1999 PhD in geochemistry (mineral-water interaction, Kent State University, Kent, Ohio, USA)					
Background	1989 MSc in chemistry (inorganic and analytical chemistry, Jagiellonian University, Krakow),					
	1985 MSc in geology (applied mineralogy, AGH Krakow),					
Working Experience	<ul> <li>2019 -&gt; researcher, Department of Earth Sciences, <i>Mineralogy, Petrology and Tectonics</i>, Uppsala University, Uppsala</li> <li>2010 -&gt; Professor, Department of Mineralogy, Petrography and Geochemistry, AGH University of Science and Technology, Kraków, Poland.</li> <li>1999 - 2009 Assistant Professor, Department of Mineralogy, Petrography and Geochemistry, AGH University of Science and Technology, Kraków, Poland.</li> <li>1999 - 2006 Visiting Professor, Department of Environmental Engineering, International School of Technology, Kraków, Poland (collaboration effort of AGH Kraków and Illinois Institute of Technology, Chicago, IL)</li> <li>2005 Sturgeon Visiting Professor, Department of Geological Sciences, Ohio University, Athens, OH, USA</li> <li>2004 Research Scientist, Department of Civil Engineering and Geological Sciences, University of Notre Dame, South Bend, IN, USA</li> <li>2000 - 2001 Post-doctoral Research Scientist, University of Notre Dame, South Bend, IN, USA</li> <li>208 1999 PhD position, Kent State University, Kent, Ohio, USA</li> <li>1986 - 2018 field geologist, Geological Polar Expeditions to Spitsbergen (15 summer field seasons)</li> </ul>					
Research Interests	Applied and experimental mineralogy Mineral-water interactions and structure of apatites, particularly Pb and As apatites Mineralogy of REE, REE recovery and extraction Biomineralogy, interaction of Pb-apatites with bacteria Environmental pollution with Pb and As Geology of Polar regions, geochronology of crystalline basement of Svalbard Archipelago, Arctic					
Major Publications*	Gabriela PIECZARA, N and decomposition prod	faciej MANECKI, Grze aucts of P-doped ferrihyd	gorz RZEPA, Olaf Bork Irite. Materials. ISSN 19	iewicz, Adam GAWEŁ 96-1944. — 2020 vol. 1	. 2020. Thermal stability 3 iss. 18 art. no. 4113, s.	

	1–16.
	Maciej MANECKI, Monika KWAŚNIAK-KOMINEK, Jarosław M. MAJKA, John Rakovan. 2020. Model of interface-
	coupled dissolution-precipitation mechanism of pseudomorphic replacement reaction in aqueous solutions based on the
	system of cerussite PbCO3- pyromorphite Pb5(PO4)3Cl. Geochimica et Cosmochimica Acta : Journal of The
	Geochemical Society and The Meteoritical Society ; ISSN 0016-7037 2020 vol. 289, s. 1-13.
	Edyta WALUŚ, Maciej MANECKI, Grzegorz CIOS. 2020. Synthesis and characterization of Cu2FeSnS4–Cu2MnSnS4
	solid solution microspheres. Materials; ISSN 1996-1944. — 2020 vol. 13 iss. 19 art. no. 4440, s. 1–18.
	Julia Sordyl, Bartosz PUZIO, Maciej MANECKI, Olaf Borkiewicz, Justyna TOPOLSKA, Sylwia ZELEK-POGUDZ.
	2020. Structural assessment of fluorine, chlorine, bromine, iodine, and hydroxide substitutions in lead arsenate apatites
	(mimetites)–Pb5(AsO4)3X. Minerals; ISSN 2075-163X. — 2020 vol. 10 iss. 6 art. no. 494, s. 1–19.
	Karol Faehnrich, Jarosław MAJKA, David Schneider, Stanisław Mazur, Maciej MANECKI, Grzegorz ZIEMNIAK,
	Virginia T. Wala, Justin V. Strauss. 2020. Geochronological constraints on Caledonian strike-slip displacement in
	Svalbard, with implications for the evolution of the Arctic. Terra Nova ; ISSN 0954-4879. — 2020 vol. 32 iss. 4, s. 290-
	299. — Bibliogr. s. 297-298
	Karolina KOŚMIŃSKA, Frank S. Spear, Jarosław MAJKA, Karol Faehnrich, Maciej MANECKI, Karsten Piepjohn,
	Winfried K. Dallmann. 2020. Deciphering late Devonian-early Carboniferous \emph{P-T-t} path of mylonitized garnet-
	mica schists from Prins Karls Forland, Svalbard. Journal of Metamorphic Geology ; ISSN 0263-4929. — 2020 vol. 38
	iss. 5, s. 471–493.
	Tomasz BAJDA, Maciej MANECKI, Marek Matyjasik. 2019. The early stages of mimetite dissolution in EDTA studied
	with atomic force microscopy and scanning electron microscopy. Microscopy and Microanalysis ; ISSN 1431-9276
	2019 vol. 25 iss. 3, s. 810–816.
	Lempart M., Manecki M., Kwaśniak-Kominek M., Matusik J., Bajda T. 2019. Accommodation of the carbonate ion in
	lead hydroxyl arsenate (hydroxylmimetite) Pb5(AsO4)3OH. Polyhedron ; ISSN 0277-5387 2019 vol. 161, s. 330-
	337. — Bibliogr. s. 337
	Bartosz PUZIO, Maciej MANECKI, Monika KWAŚNIAK-KOMINEK. 2018. Transition from endothermic to
	exothermic dissolution of hydroxyapatite Ca5(PO4)3OH-johnbaumite Ca5(AsO4)3OH solid solution series at
	temperatures ranging from 5 to 65°C. Minerals; ISSN 2075-163X. — 2018 vol. 8 iss. 7 art. no. 281, s. 1–21.
	Urszula SOLECKA, Tomasz BAJDA, Justyna TOPOLSKA, Sylwia ZELEK-POGUDZ, Maciej MANECKI. 2018.
	Raman and Fourier transform infrared spectroscopic study of pyromorphite-vanadinite solid solutions. Spectrochimica
	Acta. Part A, Molecular and Biomolecular Spectroscopy ; ISSN 1386-1425. — 2018 vol. 190, s. 96–103.
	Łukasz Drewniak, Aleksandra Skłodowska, Maciej MANECKI, Tomasz BAJDA. 2017. Solubilization of Pb-bearing
	apatite Pb5(PO4)3Cl by bacteria isolated from polluted environment. Chemosphere ; ISSN 0045-6535. — 2017 vol. 171,
	s. 302–307.
	• Polish National Research Centre research grant OPUS18 (2020 – 2023), principal investigator, "Substitutions of
	rare earth elements and U in lead apatite Pb <sub>5</sub> (PO <sub>4</sub> ) <sub>3</sub> Cl".
Research Projects*	Polish-American research grant funded by National Science Centre, Poland, principal investigator on Polish side:
	"Precise determination of dissolution constant $K_{sp}$ at 5 – 65 °C, $\Delta H_f$ , $\Delta G_f$ , $\Delta S$ and $C_p$ of apatite solid solutions in the
	senes Ca-PD-P-AS-UN-CI

	• Polish Ministry of Science and Higher Education Grant "Microbially enhanced dissolution of pyromorphite		
	Pb <sub>5</sub> (PO <sub>4</sub> ) <sub>3</sub> Cl - the effect on lead remobilization"		
	• Polish Ministry of Science and Higher Education Grant, principal investigator, "Mechanisms of heavy metals		
	mobilization in soils due to bacteria active scavenging for phosphate"		
	• Polish Ministry of Science and Higher Education Grant for Ph.D. project: "Reduction of bioavailability of Pb and		
	As by precipitation of pyromorphite and mimetite in the presence of bacteria"		
	• Polish Ministry of Science and Higher Education Grant (2006-2009), co-investigator, "Age and character of		
	Torellian unconformity in Wedel Jarlsberg Land, Spitsbergen"		
	• International Polar Year research project - part of the cluster APEX (2007-2008), principal investigator, "Direct		
	study of inorganic and microbial weathering of minerals in the foreland of a glacier retreating due to global		
	warming", partially funded by AGH-University of Science and Technology		
Deschander	Mineralogical Society of Poland		
Professional	Mineralogical Society of America		
Membership	Geochemical Society		
	- Pb and As immobilization in polluted areas		
Potential Research	- REE mineralization and extraction from unconventional sources		
Projects**	biomineralogy		
	synthesis of minerals		

\* Please list achievements of recent 5 years

\*\* This CV is intended to match Chinese and Polish Scientists within SPUC member universities, and Potential Research Projects is intended to apply for

Sino-Polish or EU scientific cooperation projects.