

## Publications

### *Books and chapters in books*

**Bajda, T.** (Ed.) (2019) Sorbenty Mineralne 2019 – Surowce, Energetyka, Ochrona Środowiska, Nowoczesne Technologie. Wydawnictwo AKAPIT, Kraków, 90 p.

**Bajda, T.** (Ed.) (2017) Sorbenty Mineralne 2017 – Surowce, Energetyka, Ochrona Środowiska, Nowoczesne Technologie. Wydawnictwa Naukowe AGH, Kraków, 131 p.

Brylewska, K., Król, M., **Bajda, T.**, Wojciechowski, K., Mozgawa W. (2017) Sorpcja jonów ołowiu  $Pb^{2+}$  na mezoporowatym zeolicie BEA. In: Bajda T. (Ed.), Sorbenty Mineralne 2017 – Surowce, Energetyka, Ochrona Środowiska, Nowoczesne Technologie. Wydawnictwa Naukowe AGH, Kraków, 355-368.

**Bajda, T.**, Muir, B. (2016) Zastosowanie metod spektroskopowych do identyfikacji mechanizmów sorpcji anionowych form pierwiastków na pochodnych organicznych minerałów krzemianowych. In: Hubicki Z (Ed.), Nauka i przemysł – metody spektroskopowe w praktyce, nowe wyzwania i możliwości. Wyd. Uniwersytet Marii Curie-Skłodowskiej, Lublin, 712-715. ISBN 978-83-945225-2-0.

Grela, A., Łach, M., **Bajda, T.**, Mikuła, J. (2016) Alkaliczna aktywacja popiołów po spalaniu mułów węglowych. Zeszyty Naukowe Instytutu Gospodarki Surowcami Mineralnymi i Energią PAN, 95: 181-192.

**Bajda, T.**, Hycnar, E. (Eds.) (2015) Sorbenty Mineralne 2015 – Surowce, Energetyka, Ochrona Środowiska, Nowoczesne Technologie. Wydawnictwa Naukowe AGH, Kraków, 368 p.

Turek, P., Kosiba, S., **Bajda, T.** (2015) Termiczne przemiany fazowe i teksturalne oraz zdolności sorpcyjne względem par rtęci sorbentu wapiennego z Kopalni Wapienia „Czatkowice” Sp. z o.o. wzbogaconego dodatkami mineralnymi. In: Bajda T., Hycnar E. (Eds.), Sorbenty Mineralne 2015 – Surowce, Energetyka, Ochrona Środowiska, Nowoczesne Technologie. Wydawnictwa Naukowe AGH, Kraków, 355-368.

**Bajda, T.**, Szala, B., Janicka, U. (2013) Zastosowanie modyfikowanego organicznie smektytu do unieruchamiania związków fosforu i ołowiu. In: Ratajczak T., Rzepa G., Bajda T. (Eds.), Sorbenty mineralne: surowce, energetyka, ochrona środowiska, nowoczesne technologie. Wyd. Naukowe AGH, Kraków, 35-47.

Ratajczak, T., Rzepa, G., **Bajda, T.** (Eds.) (2013). Sorbenty mineralne: surowce, energetyka, ochrona środowiska, nowoczesne technologie. Wydawnictwa Naukowe AGH, Kraków, 572 p.

Szala, B., Turek, P., **Bajda, T.**, Matusik, J. (2013) Optymalizacja procesu syntezy organo-zeolitu. W: Szychowski D. (red.). Młodzi dla techniki: wybrane problemy naukowo-badawcze chemii i technologii chemicznej. Wyd. Politechnika Warszawska. Wydział Budownictwa, Mechaniki i Petrochemii, 109–118.

Szala, B., Turek, P., **Bajda, T.**, Matusik, J., Odrzywolski, A., Czerwiński, J., Franus, W., Manecki, M. (2013) Sorpcja BTX na organozeolicie. In: Ratajczak T., Rzepa G., Bajda T. (Eds.), Sorbenty mineralne: surowce, energetyka, ochrona środowiska, nowoczesne technologie. Wydawnictwa Naukowe AGH, Kraków, 471-482.

---

Manecki, M., Rzepa, G., **Bajda, T.**, Matusik, J. (2011) *Geochemia. Materiały dla studentów kierunku ochrona środowiska*. Wydział Geologii, Geofizyki i Ochrony Środowiska AGH. Publikacja bezpłatna, współfinansowana ze środków Unii Europejskiej w ramach Europejskiego Funduszu Społecznego: ISBN 123-45-6789a-bc-d.

---

Franus, W., **Bajda, T.**, Manecki, A., Wieser, T. (2008) Karpackie łowce klinoptilolitowo-montmorillonitowe w świetle nowych badań. In: Kłapyta Z., Żabiński W. (Red.), *Sorbenty mineralne Polski*. Uczelniane Wydawnictwa Nukowo-Dydaktyczne, Kraków 2008, pp. 65-74.

---

Ratajczak, T., Fijał, J., Mucha, J., **Bajda, T.**, Rzepa, G. (2007) Rudy darniowe jako uniwersalne sorbenty mineralne a zakres ich badań fizykochemicznych i geologiczno-złożowych. *Sympozja i Konferencje nr 71*, Wyd. Polska Akademia Nauk, Instytut Gospodarki Surowcami Mineralnymi i Energią, pp. 229-240.

---

**Bajda, T.**, Szmit, E., Manecki, M. (2007) Removal of As(V) from solutions by precipitations of mimetite  $Pb_5(AsO_4)_3Cl$ . In: Pawłowski L., Dudzińska M., Pawłowski A. (Eds.), „Environmental Engineering”, 119-124. Taylor & Francis, New York, Singapore 2007.

---

Ratajczak, T., Fijał, J., Rzepa, G., **Bajda, T.** (2005) Właściwości sorpcyjne rud darniowych a problemy ograniczenia gazowych zanieczyszczeń atmosfery. W: *Monografie Komitetu Inżynierii Środowiska PAN*, 33: 59-67.

---

Rzepa, G., **Bajda, T.**, Ratajczak, T., Kłojzy-Karczmarczyk, B., Mazurek, J. (2005) Możliwości wykorzystania rud darniowych jako sorbentów metali ciężkich. W: *Monografie Komitetu Inżynierii Środowiska PAN*, 32: 909-917.

---

Szmit, E., **Bajda, T.**, Manecki, M. (2005) Usuwanie As(V) z roztworów przez wytrącanie w postaci mimetytu  $Pb_5(AsO_4)_3Cl$ . In: *Monografie Komitetu Inżynierii Środowiska PAN*, 33: 757-765.

---

**Bajda, T.** (2001). Adsorption of chromium compounds on various mineral raw materials. In: *Biogeochemical Processes and Cycling of Elements in the Environment*. Weber J., Jamroz E., Drozd J., Karczewska A (ed), 281-282.

---

Tarkowski, J., Sikora, M., Mucha, W., **Bajda, T.**, Rzepa, G. (2001) Badania nad oddziaływaniem emisji komunikacyjnych na otaczające środowisko na przykładzie lotniska w Balicach koło Krakowa. W: „Nauki o Ziemi w badaniach podstawowych, złożowych i ochronie środowiska na progu XXI wieku”, 405-408.

---

**Bajda, T.**, Tarkowski, J. (2000) Skażenie związkami chromu wód podziemnych w Zabierzowie koło Krakowa. *Prace Mineralogiczne*, 87: 1-22.

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### *Reviewed articles*

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Yang Z., Karczewska-Golec J., Styczynski M., **Bajda T.**, Drewniak L. (2021) Characterization of Fe-based sediments received from chemical pre-treatment of hydrometallurgical waste leachate from the recycling of alkaline batteries. *Journal of Hazardous Materials*, **403**, 123988.

---

Andrunik M., Wołowicz M., Wojnarski D., Zelek-Pogudza S., **Bajda T.** (2020) Transformation of Pb, Cd, and Zn minerals using phosphates. *Minerals*, **10**, 342.

---

- Ciężkowska M., **Bajda T.**, Dacewicz P., Dziewit Ł., Drewniak Ł. (2020) Effect of clinoptilolite and halloysite addition on biogas production and microbial community structure during anaerobic digestion. *Materials*, **13**, 4127.
- Gondek K., Mierzwa-Hersztek M., Kopeć M., **Bajda T.** (2020) Phytostabilisation on post-flotation sediment waste: mobility of heavy metals and stimulation of biochemical processes by mineral-organic mixtures. *Journal of Soils and Sediments*, **20**, 3502–3513.
- Staicu L.C., **Bajda T.**, Drewniak Ł., Charlet L. (2020) Power generation: feedstock for high-value sulfate minerals. *Minerals*, **10**, 188.
- Andrunik M., **Bajda T.** (2019). Modification of bentonite with cationic and nonionic surfactants: structural and textural features. *Materials*, **12**, 3772.
- Bajda T.**, Manecki M., Matyjasik M. (2019) The early stages of mimetite dissolution in EDTA studied with atomic force microscopy and scanning electron microscopy. *Microscopy and Microanalysis*, **25**, 810–816.
- Lempart M., Manecki M., Kwaśniak-Kominek M., Matusik J., **Bajda T.** (2019) Accommodation of the carbonate ion in lead hydroxyl arsenate (hydroxylmimetite)  $Pb_5(AsO_4)_3OH$ . *Polyhedron*, **161**, 330-337.
- Mierzwa-Hersztek M., Gondek K., **Bajda T.**, Kopeć M. (2019) Zastosowanie biowęgla i zeolitu jako adsorbentów zanieczyszczeń mineralnych. *Przemysł Chemiczny*, **98**, 1969-1972.
- Mierzwa-Hersztek M., Gondek K., Nawrocka A., Pińkowska H., **Bajda T.**, Stanek-Tarkowska J., Szostek M. (2019) FT-IR analysis and the content of phenolic compounds in exogenous organic matter produced from plant biomass. *Journal of Elementology*, **24**, 879–896.
- Topolska J., **Bajda T.**, Puzio B., Manecki M., Kozub-Budzyń G. (2019) Time constraints on experimental studies of lead apatites. *Geological Quarterly*, **63**(4), 721–728.
- Tuchowska M., Muir B., Kowalik M., Socha R.P., **Bajda T.** (2019) Sorption of molybdates and tungstates on functionalized montmorillonites: structural and textural features. *Materials*, **12**, 2253.
- Tuchowska M., Rzepa G., Dębiiec-Andrzejewska K., Drewniak Ł., **Bajda T.** (2019) Immobilization of arsenic compounds by bog iron ores. *Desalination and Water Treatment*, **157**, 138–147.
- Tuchowska M., Wołowiec M., Solińska A., Kościelniak A., **Bajda T.** (2019) Organo-Modified Vermiculite: Preparation, Characterization, and Sorption of Arsenic Compounds. *Minerals*, **9**, 483.
- Wojciechowska K., Król M., **Bajda T.**, Mozgawa W. (2019) Sorption of heavy metal cations on mesoporous ZSM-5 and mordenite. *Materials*, **12**: 3271
- Wołowiec M., Komorowska-Kaufman M., Pruss A., Lasocka-Gomuła I., Rzepa G., **Bajda T.** (2019) The properties of sludge formed as a result of coagulation of backwash water from filters removing iron and manganese from groundwater. *SN Applied Sciences*, **1**, 639.
- Wołowiec M., Komorowska-Kaufman M., Pruss A., Rzepa G., **Bajda T.** (2019) Removal of heavy metals and metalloids from water using drinking water treatment residuals as adsorbents : a review. *Minerals*, **9**, 487.
- Wołowiec M., Tuchowska M., Kudła P., **Bajda T.** (2019) Synthesis and characterization of cadmium chlorapatite  $Cd_5(PO_4)_3Cl$ . *Mineralogia*, **50**, 3-12.
- Dębiiec, K., Rzepa, G., **Bajda, T.**, Uhrynowski, W., Skłodowska, A., Krzysztoforski, J., Drewniak, Ł. (2018) Granulated bog iron ores as sorbents in passive (bio)remediation systems for arsenic removal. *Frontiers in Chemistry*, **6**, 54.
- diCenzo G.C., Debiec K., Krzysztoforski J., Uhrynowski W., Mengoni A., Fagorzi C., Gorecki A., Dziewit L., **Bajda T.**, Rzepa G., Drewniak L. (2018) Genomic and biotechnological characterization of the heavy-metal resistant, arsenic-oxidizing bacterium *Ensifer* sp. M14. *Genes*, **9**(8), 379.

- Grela, A., Łach, M., **Bajda, T.**, Mikuła, J., Hebda, M. (2018) Characterization of the products obtained from alkaline conversion of tuff and metakaolin. *Journal of Thermal Analysis and Calorimetry*, **133**, 217-226.
- Łach M., Grela A., **Bajda T.**, Mierzwiński D., Komar N., Mikuła J. (2018) Production of zeolite sorbents from burning and co-burning biomass with coal. *E3S Web of Conferences* 44, 00097. DOI: 10.1051/e3sconf/20184400097
- Mierzwa-Hersztek, M., Gondek, K., Klimkowicz-Pawlas, A. Baran, A, **Bajda, T.** (2018) Sewage sludge biochars management - ecotoxicity, mobility of heavy metals and soil microbial biomass. *Environmental Toxicology and Chemistry*, **37**, 1197-1207.
- Solecka, U., **Bajda, T.**, Topolska, J., Zelek-Pogudz, S., Manecki, M. 2018. Raman and Fourier transform infrared spectroscopic study of pyromorphite-vanadinite solid solutions. *Spectrochimica Acta Part A*, **190**, 96-103.
- Dębiec, K., Rzepa, G., **Bajda, T.**, Zych, Ł., Krzysztoforski, J., Skłodowska, A., Drewniak, Ł. (2017) The influence of thermal treatment on bioweathering and arsenic sorption capacity of a natural iron (oxyhydr)oxide-based adsorbent. *Chemosphere*, **188**, 99-109.
- Drewniak, Ł., Skłodowska, A., Manecki, M., **Bajda, T.** (2017) Solubilization of Pb-bearing apatite  $Pb_5(PO_4)_3Cl$  by bacteria isolated from polluted environment. *Chemosphere*, **171**, 302-307.
- Grela, A., **Bajda, T.** (2017) Usuwanie wybranych związków biogenych z roztworów wodnych z wykorzystaniem metakaolinu i zmodyfikowanego metakaolinu. *Inżynieria Ekologiczna*, **18**, 30-38.
- Grela, A., Łach, M., **Bajda, T.**, Mikuła J. (2017) Characteristics of sorbent products obtained by the alkaline activation of waste from waste incineration plants. *Mineralogia*, **48**, 87-105.
- Grela, A., Łach, M., Mierzwiński, D., **Bajda, T.**, Mikuła, J. (2017) Obtainig zeolites from slags and ashes from a waste combustion plant in an autoclave process. *E3S Web of Conferences* 17, 00026. DOI: 10.1051/e3sconf/20171700026.
- Krajewski, M., Olchowy, P., Zatoń, M., **Bajda, T.** 2017. Kimmeridgian hardground-sequence boundary from the Mesozoic margin of the Holy Cross Mountains (central Poland): implications for the evolution of the northern Tethyan carbonate shelf. *Facies*, **63**, 1-15.
- Muir, B., Andrunik, D., Hyła, J., **Bajda, T.** (2017) The removal of molybdates and tungstates from aqueous solution by organo-smectites. *Applied Clay Science*, **136**, 8-17.
- Muir, B., Wołowiec, M., **Bajda, T.**, Nowak, P., Czupryński, P. (2017) The removal of organic compounds by natural and synthetic surface-functionalized zeolites: a mini-review. *Mineralogia*, **48**, 145-155.
- Wołowiec, M., **Bajda, T.** (2017) Current stage of knowledge relating to the use ferruginous sludge from water treatment plants – a preliminary review of the literature. *Mineralogia*, **48**, 39-45.
- Wołowiec, M., Muir, B., Zięba, K., **Bajda, T.**, Kowalik, M., Franus, W. (2017) Experimental study on the removal of VOCs and PAHs by zeolites and surfactant-modified zeolites. *Energy & Fuels*, **31**, 8803-8812.
- Wołowiec, M., Muir, B., **Bajda, T.**, Zięba, K., Kijak, B., Franus, W. (2017) Removal of BTEX and hexane by organo-zeolites: The influence of surfactants' carbon chain length on the sorption process. *Desalination and Water Treatment*, **94**, 120-128.
- Giera, A., Manecki, M., **Bajda, T.**, Rakovan, J., Kwaśniak-Kominek, M., Marchlewski, T. (2016) Arsenate substitution in lead hydroxyl apatites: a Raman spectroscopic study. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **152**, 370-377.

- Gondek, K., Mierzwa-Hersztek, M., Smreczak, B., Baran, A., Kopeć, M., Mróz, T., Janowski, P., **Bajda, T.**, Tomczyk, A. (2016) Content of PAHs, activities of  $\gamma$ -radionuclides and ecotoxicological assessment in biochars. *Polish Journal of Chemical Technology*, **18(4)**, 27-35.
- Kleszczewska-Zębala, A., Manecki, M., **Bajda, T.**, Rakovan, J., Borkiewicz, O. (2016) Mimeticite formation from goethite adsorbed ions. *Microscopy and Microanalysis*, **22**, 698-705.
- Muir, B., **Bajda, T.** (2016) Organically modified zeolites in petroleum compounds spill cleanup - production, efficiency, utilization. *Fuel Processing Technology*, **149**, 153-162.
- Muir, B., Matusik, J., **Bajda, T.** (2016) New insights into alkylammonium-functionalized clinoptilolite and Na-P1 zeolite: structural and textural features. *Applied Surface Science*, **361**, 242-250.
- Rzepa, G., **Bajda, T.**, Gawel, A., Dębiec, K., Drewniak, Ł. (2016) Mineral transformations and textural evolution during roasting of bog iron ores. *Journal of Thermal Analysis and Calorimetry*, **123**, 615-630.
- Topolska, J., Manecki, M., **Bajda, T.**, Borkiewicz, O., Budzewski, P. (2016) Solubility of pyromorphite  $Pb_5(PO_4)_3Cl$  at 5–65°C. *Journal of Chemical Thermodynamics*, **98**, 282-287.
- Bajda, T.**, Szala, B., Solecka, U. (2015) Removal of lead and phosphate ions from aqueous solutions by organo-smectite. *Environmental Technology*, **36**, 2872-2883.
- Grela, A., **Bajda, T.**, Mikuła, J. (2015) Skład mineralny i właściwości teksturalne zeolitów z metakaolinu. *Przemysł Chemiczny*, **94**, 619-622.
- Kwaśniak-Kominek, M., Matusik, J., **Bajda, T.**, Manecki, M., Rakovan, J., Marchlewski, T., Szala, B. (2015) Fourier transform infrared spectroscopic study of hydroxylpyromorphite  $Pb_{10}(PO_4)_6OH_2$  - hydroxylmimetite  $Pb_{10}(AsO_4)_6OH_2$  solid solution series. *Polyhedron*, **99**, 103-111.
- Szala, B., **Bajda, T.**, Jeleń, A. (2015) Removal of chromium(VI) from aqueous solutions using zeolites modified by HDTMA and ODTMA surfactants. *Clay Minerals*, **50**, 103-115.
- Szala, B., **Bajda, T.**, Matusik, J., Zięba, K., Kijak, B. (2015) BTX sorption on Na-P1 organo-zeolite as a process controlled by the amount of adsorbed HDTMA. *Microporous and Mesoporous Materials*, **202**, 115-123.
- Szala, B., Greiner-Wronowa, E., Piccardo, P., Kwaśniak-Kominek, M., **Bajda, T.** (2014) Influence of environment of the corrosion of glass-metal connections. *Applied Physics A Materials Science & Processing*, **116**, 1627-1635.
- Turek, P., **Bajda, T.**, Manecki, M. (2014) Dissolution of mimeticite  $Pb_5(AsO_4)_3Cl$  in malic acid solutions. *Mineralogia*, **45**, 3-12.
- Bajda, T.**, Kłapyta, Z. (2013) Adsorption of chromate from aqueous solutions by HDTMA-modified clinoptilolite, glauconite and montmorillonite. *Applied Clay Science*, **86**, 169-173.
- Król, M., Mozgawa, W., Barczyk, K., **Bajda, T.**, Kozanecki, M. (2013) Changes in the vibrational spectra of zeolites due to sorption of heavy metal cations. *Journal of Applied Spectroscopy*, **80**, 662-668.
- Matusik, J., **Bajda, T.** (2013) Immobilization and reduction of hexavalent chromium in the interlayer space of positively charged kaolinites. *Journal of Colloid and Interface Science*, **398**, 74-81.
- Szala, B., Turek, P., Jeleń, A., **Bajda, T.** (2013) Synteza i właściwości sorpcyjne organo-zeolitów. *Zeszyty Naukowe Uniwersytetu Zielonogórskiego*, 150. *Inżynieria Środowiska*, **30**, 5-12.
- Topolska, J., Borowicz, P., Manecki, M., **Bajda, T.**, Kaschabek, S., Merkel, B.J. (2013) The effect of gluconic acid secretion by phosphate-solubilizing *Pseudomonas Putida* bacteria on dissolution of pyromorphite  $Pb_5(PO_4)_3Cl$  and Pb remobilization. *Annales Societatis Geologorum Poloniae*, **83**, 343-351.

- 
- Janicka, U., **Bajda, T.**, Manecki, M. (2012) Synthesis and solubility of brompyromorphite  $Pb_5(PO_4)_3Br$ . *Mineralogia*, **43**, 129-135.
- 
- Matusik, J., **Bajda, T.**, Manecki, M. (2012) Aqueous cadmium removal by hydroxylapatite and fluoroapatite. *Geology, Geophysics & Environment*, **38**, 427-438.
- 
- Bajda, T.** (2011) Dissolution of mimetite  $Pb_5(AsO_4)_3Cl$  in low-molecular-weight organic acids and EDTA. *Chemosphere*, **83**, 1493-1501.
- 
- Bajda, T.**, Marchlewski, T., Manecki, M. (2011) Pyromorphite formation from montmorillonite sorbed lead. *Mineralogia*, **42**, 75-91.
- 
- Bajda, T.**, Manecki, M. (2010) Dissolution of lead arsenate promoted by organic acids. *Mineralogia – Special Papers*, **36**, 25-26.
- 
- Bajda, T.**, Mozgawa, W., Manecki, M., Flis, J. (2011) Vibrational spectroscopic study of mimetite-pyromorphite solid solutions. *Polyhedron*, **30**, 2479-2485.
- 
- Flis, J., Manecki, M., **Bajda, T.** (2011) Solubility of pyromorphite  $Pb_5(PO_4)_3Cl$  - mimetite  $Pb_5(AsO_4)_3Cl$  solid solution series. *Geochimica et Cosmochimica Acta*, **75**, 1858-1868.
- 
- Mozgawa, W., Król, M., **Bajda, T.** (2011) IR spectra in the studies of anion sorption on natural sorbents. *Journal of Molecular Structure*, **933**, 109-114.
- 
- Szrek, D., **Bajda, T.**, Manecki, M. (2011) A comparative study of the most effective amendment for Pb, Zn and Cd immobilization in contaminated soils from Upper Silesia, Poland. *Journal of Environmental Science and Health Part A*, **46**, 1491-1502.
- 
- Bajda T.** (2010) Solubility of mimetite  $Pb_5(AsO_4)_3Cl$  at 5-55°C. *Environmental Chemistry*, **7**, 268-278.
- 
- Flis, J., Borkiewicz, O., **Bajda, T.**, Manecki, M., Klasa, J. (2010) Synchrotron-based X-ray diffraction of the lead apatite series  $Pb_{10}(PO_4)_6Cl_2$ – $Pb_{10}(AsO_4)_6Cl_2$ . *Journal of Synchrotron Radiation*, **17**, 207-214.
- 
- Kleszczewska, A., Manecki, M., Figuła, A., **Bajda, T.** (2009) Immobilization of  $Pb^{2+}$  using new generation glass fertilizers. *Fresenius Environmental Bulletin*, **18(7A)**, 1205-1209
- 
- Maneck, M., **Bajda, T.**, Wegner, M., Borkiewicz, O. (2009) Immobilizacja Pb(II) przez krystalizację piromorfitu na galenie w obecności nawozów fosforanowych. *Geologia (kwartalnik AGH)*, **35 (2/1)**, 263-269.
- 
- Mozgawa, W., Król, M., **Bajda, T.** (2009) Application of IR spectra in the studies of heavy metal cations immobilization on natural sorbents. *Journal of Molecular Structure*, **924-926**, 427-433.
- 
- Rzepa, G., **Bajda, T.**, Ratajczak, T. (2009) Utilization of bog iron ores as sorbents of heavy metals. *Journal of Hazardous Materials*, **162**, 1007-1013.
- 
- Matusik, J., **Bajda, T.**, Manecki, M. (2008) Immobilization of aqueous cadmium by addition of phosphates. *Journal of Hazardous Materials*, **152**, 1332-1339.
- 
- Bajda, T.**, Kłapyta, Z. (2006) Sorption of chromate by clinoptilolite modified with alkylammonium surfactants. *Mineralogia Polonica*, **37**, 109-115.
- 
- Bajda, T.**, Manecki, M., Szmit, E., Flis, J. (2006) Thermodynamic stability of mimetite  $Pb_5(AsO_4)_3Cl$  at 5-35°C. *Mineralogia Polonica Special Papers*, **28**, 16-18.
- 
- Maneck, M., Bogucka, A., **Bajda, T.**, Borkiewicz, O. (2006) Decrease of Pb bioavailability in solis by addition of phosphate ions. *Environmental Chemistry Letters*, **3**, 178-181.
-

- Mozgawa, W., **Bajda, T.** (2006) Application of vibrational spectra in the studies of cation sorption on zeolites. *Journal of Molecular Structure*, **792-793**, 170-175.
- Ratajczak, T., Fijał, J., Rzepa, G., **Bajda, T.** (2006) Rudy darniowe jako sorbenty mineralne - badania jakości i propozycje zasad dokumentowania. *Górnictwo Odkrywkowe*, **XLVIII** (1-2), 141-145.
- Rzepa, G., **Bajda, T.**, Sikora, M. (2006) Speciation and concentration of trace elements in the ferruginous sediments of Poland. *Polish Journal of Environmental Studies*, **15**(2a), 474-478.
- Rzepa, G., Budzyń, B., **Bajda, T.** (2006) Iron oxides in the weathering zone of serpentinites from the Szklary massif (Lower Silesia) - preliminary mineralogical description. *Mineralogia Polonica Special Papers*, **28**, 190-192.
- Bajda, T.** (2005) Chromatite  $\text{Ca}[\text{CrO}_4]$  in the soil polluted with electroplating effluents (Zabierzów, Poland). *Science of the Total Environment*, **336**, 269-274.
- Bajda, T.**, Ratajczak, T. (2005) Możliwość wykorzystania bełchatowskich iłów beidellitowych jako sorbentów pierwiastków toksycznych na przykładzie związków chromu. *Górnictwo Odkrywkowe*, **XLVII** (2), 39-43.
- Bajda, T.**, Rzepa, G. (2005) Mineralogy of ferruginous precipitates from Kokino Nero (Greece) and their relation to those from the polish Carpathians. *Polskie Towarzystwo Mineralogiczne Prace Specjalne*, **25**, 265-268.
- Bajda, T.**, Szmit, E., Manecki, M. (2005) Solubility of mimetite  $\text{Pb}_5(\text{AsO}_4)_3\text{Cl}$  at 20°C and pH from 2.0 to 12.0. *Polskie Towarzystwo Mineralogiczne Prace Specjalne*, **25**, 27-30.
- Bogucka, A., Manecki, M., **Bajda, T.**, Borkiewicz, O. (2005) Pyromorphite formation from goethite-adsorbed phosphate ions. *Polskie Towarzystwo Mineralogiczne Prace Specjalne*, **25**, 35-38.
- Mozgawa, W., **Bajda, T.** (2005) Spectroscopic study of heavy metals sorption on clinoptilolite. *Physics and Chemistry of Minerals*, **31**, 706-713.
- Mozgawa, W., **Bajda, T.**, Sikora, M. 2005. Spectroscopic study of metals sorption on Carpathian zeolites. *Polskie Towarzystwo Mineralogiczne Prace Specjalne*, **25**, 337-340.
- Strycharczyk, M., Manecki, M., **Bajda, T.**, Gawel, A., Mozgawa, W. (2005) Synthesis of pyromorphite-mimetite solid solutions from aqueous solutions – preliminary results. *Polskie Towarzystwo Mineralogiczne Prace Specjalne*, **25**, 225-228.
- Wegner, M., Manecki, M., **Bajda, T.** (2005) Removal of Pb from aqueous solutions by phosphorous fertilizers. *Polskie Towarzystwo Mineralogiczne Prace Specjalne*, **25**, 246-249.
- Bajda, T.**, Franus, W., Manecki, A., Manecki, M., Mozgawa, W., Sikora, M. (2004) Sorption of heavy metals on natural zeolite and smectite-zeolite shale from the Polish Flysch Carpathians. *Polish Journal of Environmental Studies*, **13**, Supl. III, 7-10.
- Bajda, T.**, Kłojzy-Karczmarczyk, B., Fijał, J., Rzepa, G., Mazurek, J. (2004) Sorpcja Cu(II), Zn(II) i Hg(II) na naturalnych i modyfikowanych rudach darniowych. *Gospodarka Surowcami Mineralnymi*, **20** (z.spec. 2), 83-98.
- Rzepa, G., **Bajda, T.**, Ratajczak, T. (2004) Właściwości sorpcyjne rud darniowych – dotychczasowy stan badań. *Gospodarka Surowcami Mineralnymi*, **20** (z.spec. 2), 47-59.
- Krajewski, M., **Bajda, T.** (2002) Zróżnicowanie mineralogiczne i geochemiczne górnijurajskich wapieni zrębu Zakrzówka, region krakowski, południowa Polska. *Zeszyty Naukowe AGH, Geologia*, **28/4**, 129-143.
- Bajda, T.** (2000) Mineralogy and geochemistry of chromium compounds of the weathering zone of serpentinites from the Szklary massif (Lower Silesia). *Polskie Towarzystwo Mineralogiczne Prace Specjalne*, **17**, 111-113.

---

## Conference materials

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Andrunik M., **Bajda T.** 2020. Structural and textural features of bentonite modified with mixed cationic and nonionic surfactants. *Goldschmidt Virtual 2020, 21–26 June 2020*. In: book of abstracts.

**Bajda T.**, Sobczyk M. 2020. Stability of chromium compounds immobilized on organo-zeolites. *Goldschmidt Virtual 2020, 21–26 June 2020*. In: book of abstracts.

Muir B., **Bajda T.** 2020. The influence of zeolites' surface modification on sorption, structural and textural features. *Goldschmidt Virtual 2020, 21–26 June 2020*. In: book of abstracts.

Nowak P., **Bajda T.** 2020. Methods for optimization of hard coal fly ash quality : chances and risks in Central and Eastern Europe. *Goldschmidt Virtual 2020, 21–26 June 2020*. In: book of abstracts.

Sobczyk M., Akinsumade A., **Bajda T.** 2020. Temperature stability of chemically synthesized alginate-based aerogel during metal ions removal. *XXI<sup>st</sup> International Conference of Young Geologists HERL'ANY 2020: Niedzica, Poland, 05-07.11.2020*. In: abstract book & introduction to the Pieniny Klippen Belt / eds. Peter Kiss, [et al.].

Solińska A., **Bajda T.** 2020. The low-cost hybrid sorbents for immobilization of dyes: sorbents features characterization. *EGU General Assembly 2020, 4–8 May 2020: online*. In: book of abstracts.

Wołowiec M., Komorowska-Kaufman M., Pruss A., Rzepa G., **Bajda T.** 2020. Sorption of H<sub>2</sub>S on water treatment residuals generated during drinking water treatment. *Goldschmidt Virtual 2020, 21–26 June 2020*. In: book of abstracts.

Andrunik M., **Bajda T.** 2019. Effect of surfactants adsorption on the structure of bentonite-based sorbents. *EGU General Assembly 2020, 4–8 May 2020: online*. In: book of abstracts.

Andrunik M., **Bajda T.** 2019. Sorpcja atrazyny na minerałach ilastych modyfikowanych surfaktantami organicznymi – przegląd literatury. *Sorbenty Mineralne 2019: surowce, energetyka, ochrona środowiska, nowoczesne technologie, 16–17 września 2019, Jerzmanowice, Polska*. In: book of abstracts, Bajda T. (red), pp. 9–10.

**Bajda T.**, Tuchowska M., Muir B., Kowalik M., Socha R.P. 2019. Sorption of molybdates and tungstates on modified smectites. *EUROCLAY 2019: international conference on clay science and technology, 1-5 July, 2019, Paris, France*. In: book of abstracts, pp. 108.

Gara P., Wisła-Walsh E., **Bajda T.** 2019. Granulacja dwustopniowa sorbentów kompozytowych do obniżania zawartości siarki w żeliwie. *Sorbenty Mineralne 2019: surowce, energetyka, ochrona środowiska, nowoczesne technologie, 16–17 września 2019, Jerzmanowice, Polska*. In: book of anstracts, Bajda T. (red), pp. 35–36.

Maneck M., Puzio B., Solecka U., **Bajda T.**, Topolska J. 2019. Compositional analysis of PO<sub>4</sub>, AsO<sub>4</sub>, and VO<sub>4</sub> in Pb-apatites with Raman spectroscopy. *ECMS 2019: 9<sup>th</sup> European Conference on Mineralogy and Spectroscopy, September 11–13, 2019, Prague, Czech Republic*. In: book of abstracts, pp. 29.

Nowak P., Muir B., Nabagło D., **Bajda T.** 2019. Materiały funkcjonalizowane na bazie popiołów lotnych aktywowanych ściekami z energetyki zawodowej. *Sorbenty Mineralne 2019: surowce, energetyka, ochrona środowiska, nowoczesne technologie, 16–17 września 2019, Jerzmanowice, Polska*. In: book of anstracts, Bajda T. (red), pp. 52–53.

---



---

Puzio B., Solecka U., Manecki M., **Bajda T.** 2019. Thermodynamics of pyromorphite - vanadinite solid solution series. *ICYG 2019: XX<sup>th</sup> International Conference of Young Geologists, April 3-5 2019, Herl'any, Slovakia*. In: abstract book, Bakalár T. et al (eds), pp. 87–88.

---

Solińska A., **Bajda T.** 2019. Low-cost materials as the sorbents for organic compounds removal: a review. *12<sup>th</sup> GEOSYMPOSIUM of young researchers SILESIA 2019, 2–4 September 2019, Tarnowskie Góry*. In: book of abstracts, Abramowicz A., Braclawska A., Brom A., Fiedor D., Kondas M., Ślósarczyk K. (eds), pp. 58.

---

Topolska J., **Bajda T.**, Puzio B., Manecki M., Kozub-Budzyń G. 2019. Time as a challenging constraint of experimental studies in applied mineralogy of apatites. *CAGG-AGH-2019: “Challenges in Applied Geology and Geophysics: 100<sup>th</sup> anniversary of applied geology at AGH University of Science and Technology” : international scientific conference, 10-13 September 2019, Kraków*. In: book of abstracts, Jarzyna J., Krakowska-Madejska P., Sowizdzał A. (eds).

---

Tuchowska M., **Bajda T.** 2019. Modification of bentonite with mixed cationic-nonionic surfactants. *EUROCLAY 2019: international conference on clay science and technology, 1-5 July, 2019, Paris, France*. In: book of abstracts, pp. 609.

---

Wołowiec M., Komorowska-Kaufman M., Pruss A., Rzepa G., **Bajda T.** 2019. Characterization of aluminum-based drinking water treatment residuals. *EUROCLAY 2019: international conference on clay science and technology, 1-5 July, 2019, Paris, France*. In: book of abstracts, pp. 645.

---

Wołowiec M., Komorowska-Kaufman M., Pruss A., Rzepa G., **Bajda T.** 2019. Produkty odpadowe jako alternatywne sorbenty metali ciężkich – przegląd. *Sorbenty Mineralne 2019: surowce, energetyka, ochrona środowiska, nowoczesne technologie, 16–17 września 2019, Jerzmanowice, Polska*. In: book of abstracts, Bajda T. (red), pp. 81–82.

---

**Bajda T.** 2018. Oxyanions sorption by organo-smectite. *55<sup>th</sup> Annual Meeting The Clay Minerals Society, Urbana-Champaign, June 11-14, 2018, Illinois, USA*. In: book of abstracts, 40 p.

---

**Bajda T.**, Muir B., Nowak P. 2018. Hybrid sorption properties of zeolites: adsorption of As(V), P(V) and Cl - by clinoptilolite exchanged with Pb, Zn and Cd. *10<sup>th</sup> International Conference on the Occurrence, Properties, and Utilization of Natural Zeolites – Zeolite 2018, 24–29 June 2018, Krakow, Poland*. In: book of abstracts, Franus W., Madej J. (eds), pp. 121-122.

---

Holmberg J., **Bajda T.**, Hantler A. 2018. How to Quantify Asbestos combining Point Counting and combined X-ray Diffraction, Infrared Spectroscopy and Thermal Analysis. *Petrology in Narrow and Wide Perspective: 25 Years of Sessions of the Petrology Group of the Mineralogical Society of Poland, 25-28 October 2018, Brunów, Poland*. In: Mineralogia – Special Papers, 48, 54 p.

---

Tuchowska M., **Bajda T.**, Rzepa G., Dębiec K., Drewniak Ł. 2018. Batch and column sorption of As(V) onto bog iron ores. *Petrology in Narrow and Wide Perspective: 25 Years of Sessions of the Petrology Group of the Mineralogical Society of Poland, 25-28 October 2018, Brunów, Poland*. In: Mineralogia – Special Papers, 48, 88 p.

---

Tuchowska M., **Bajda T.**, Rzepa G., Dębiec K., Drewniak Ł. 2018. *GEOSYMPOSIUM of Young Researchers SILESIA 2018, 12–14 September 2018, Istebna*. In: book of abstracts, Braclawska A. et al. (eds), e-ISBN: 978-83-951016-0-1. 57 p.

---

Wołowiec M., **Bajda T.**, Komorowska-Kaufman M., Pruss A., Rzepa G. 2018. Comparison of sorption properties of water treatment residuals. *GEOSYMPOSIUM of Young Researchers SILESIA 2018, 12–14 September 2018, Istebna*. In: book of abstracts, Braclawska A. et al. (eds), e-ISBN: 978-83-951016-0-1. 59 p.

---

Wołowiec M., **Bajda T.**, Komorowska-Kaufman M., Pruss A., Rzepa G. 2018. Effectiveness of water treatment residuals in removing heavy metals and metalloids from aqueous solutions. *Petrology in Narrow and Wide Perspective: 25 Years of Sessions of the Petrology Group of the Mineralogical Society of Poland, 25-28 October 2018, Brunów, Poland*. In: *Mineralogia – Special Papers*, 48, 92 p.

Wołowiec M., **Bajda T.**, Komorowska-Kaufman M., Pruss A., Rzepa G. 2018. Sorpcja metali ciężkich i metalloidów na osadach z procesów oczyszczania wody — Removal of heavy metals and metalloids using water treatment residuals as adsorbents. In: *Zaopatrzenie w wodę, jakość i ochrona wód = Water supply and water quality*, Dymaczewski Z. et al. (eds). Poznań: Polskie Zrzeszenie Inżynierów i Techników Sanitarnych. Oddział Wielkopolski, 2018. (Inżynieria na Rzecz Ochrony Środowiska / red. Lemański J.F., Zabawa S.). ISBN: 978-83-64959-04-2. pp. 383–385.

**Bajda T.** 2017. Porównanie zdolności sorpcyjnych sorbentów mineralnych względem anionowych form pierwiastków. FGF: Fizykochemia Granic Faz - metody instrumentalne. Lublin 23–26 kwietnia 2017. In: *Book of abstracts*, Lublin, 2017. ISBN: 978-83-65133-18-2. 25 p.

**Bajda T.**, Manecki M. Matyjasik M. 2017. The early stages of mimetite dissolution in EDTA studied with atomic force microscopy and scanning electron microscopy. *Goldschmidt2017, Paris, France, August 13–18, 2017*. In book of abstracts.

Brylewska K., **Bajda T.**, Mozgawa W. 2017. Modified structure of mordenite - studies of sorption properties. *6<sup>th</sup> international PhD seminar Kraków - Dresden – Warsaw, 29 November–1 December 2017, Kraków*. In: book of abstracts, Pędzich Z., Wojciechowski K. (eds.) Kraków: AGH University of Science and Technology, 2017. ISBN: 978-83-65955-01-2. pp. 34–35.

Brylewska K., Król M., **Bajda T.**, Mozgawa W. 2017. Spectroscopic studies of modified synthetic zeolites ZSM-5 and mordenite. *XIV<sup>th</sup> International Conference on Molecular Spectroscopy: From Molecules to Functional Materials. Kraków–Białka Tatrzańska, 3–7 September 2017*. In: Koleżyński A., Król M. (eds.), AGH University of Science and Technology, Kraków: Wydawnictwo Naukowe "Akapit", 2017. ISBN: 978-83-63663-94-0. 288 p.

Brylewska K., Król M., Kornaus K., **Bajda T.**, Mozgawa W. 2017. Sorption properties of mesoporous ZSM-5 and BEA zeolites. *EYEC monograph: 6<sup>th</sup> European Young Engineers Conference: April 24–26, Warsaw*. In: Nowak B., Werner Ł., Wierzba P (eds.) Warsaw: University of Technology. Faculty of Chemical and Process Engineering, 2017. ISBN: 978-83-936575-4-4. 237 p.

Dębiec K., Rzepa G., **Bajda T.**, Uhrynowski W., Krzysztoforski J., Skłodowska A., Drewniak Ł. 2017. Możliwości zastosowania darniowych rud żelazowych jako sorbentu w technologii usuwania arsenu z zanieczyszczonych wód. In: *Sorbenty mineralne 2017: surowce, energetyka, ochrona środowiska, nowoczesne technologie*, Bajda T. (ed.). Kraków: Wydawnictwa AGH, 2017. ISBN: 978-83-7464-944-5. pp. 15–18.

Wołowiec M., **Bajda T.**, Rzepa G., Drewniak Ł., Dębiec K., Komorowska-Kaufman M., Pruss A. 2018. Sorption properties of ferruginous sludge from Water Treatment Plant. *Herl'any 2017: international conference of Young geologist : March 29<sup>th</sup> – April 3<sup>rd</sup>, 2017, Dobczyce n. Kraków, Poland*. In: book of abstracts. Kraków: Wydawnictwo Mineralogiczne MINERALPRESS, cop. 2018. ISBN: 978-83-933330-1-1. Pp. 68–69.

**Bajda T.**, Muir B. 2016. Zastosowanie metod spektroskopowych do identyfikacji mechanizmów sorpcji anionowych form pierwiastków na pochodnych organicznych minerałów krzemianowych. *IX Ogólnopolskie Sympozjum „Nauka i przemysł – metody spektroskopowe w praktyce, nowe wyzwania i możliwości”*. Lublin, 7-9 czerwca 2016. In: Hubicki Z (Ed.), *Nauka i przemysł – metody spektroskopowe w praktyce, nowe wyzwania i możliwości*. Wyd. Uniwersytet Marii Curie-Skłodowskiej, Lublin, 712-715.

- Dębiec K., Rzepa G., **Bajda T.**, Krzysztoforski J., Drewniak L., 2016 – The influence of bog iron ore roasting on its arsenic sorption properties and destabilization caused by presence of microorganisms. *New Biotechnology* 33/S, S129.
- Drewniak L., Debiec K., Krzysztoforski J., Rzepa G., **Bajda T.**, 2016 – MicroAsOx – Microbial system for arsenic removal from contaminated waters. *New Biotechnology* 33/S, S54–55.
- Muir B., Andrunik D., **Bajda T.** 2016. Molybdates and tungstates sorption on organo-smectites as a process controlled by the type and amount of surfactant. *XVII International Conference of Young Geologists Herl'any 2015. Svaty Jur, Slovakia, 14–16 April, 2016*. In: *Geology, Geophysics and Environment* 42, 1, 102–103.
- Muir B., **Bajda T.** 2016. Molybdates and tungstates removal by organo-smectites – a function of time, initial concentration and pH. *Goldschmidt2016. 26<sup>th</sup> Goldschmidt Conference: Yokohama, Japan, 26<sup>th</sup> June – 1<sup>st</sup> July, 2016*. In: *Book of Abstracts*, 2171.
- Solecka U., **Bajda T.**, Topolska J., Manecki M. 2016. Thermodynamic stability of pyromorphite-vanadinite solid solution series. *Goldschmidt2016. 26<sup>th</sup> Goldschmidt Conference: Yokohama, Japan, 26<sup>th</sup> June – 1<sup>st</sup> July, 2016*. In: *Book of Abstracts*, 2906.
- Solecka U., Zelek S., **Bajda T.** 2016. The Rietveld refinement studies of pyromorphite-vanadinite and mimetite-vanadinite solid solution series. *XVII International Conference of Young Geologists Herl'any 2015. Svaty Jur, Slovakia, 14–16 April, 2016*. In: *Geology, Geophysics and Environment* 42, 1, 127–128.
- Tuchowska M., **Bajda T.**, Rzepa G., Dębiec K., Drewniak Ł., 2016. Arsenic interactions with bog iron ores – As(III) and As(V) adsorption–desorption study. *XVII International Conference of Young Geologists Herl'any 2015. Svaty Jur, Slovakia, 14–16 April, 2016*. In: *Geology, Geophysics and Environment* 42, 1, 133–134.
- Wołowiec M., Muir B., **Bajda T.** 2016. Organo-zeolity jako sorbenty lotnych związków organicznych i wielopierścieniowych węglowodorów aromatycznych. W: *Konferencja "Innowacyjne pomysły młodych naukowców: nauka – startup – przemysł": 30–31 maja 2016, Kraków / red. nauk. Joanna Kulczycka. Kraków, Wydawnictwo IGSMiE PAN, cop. 2016. ISBN: 978-83-62922-63-5. s. 40–41.*
- Wołowiec M., Muir B., **Bajda T.** 2016. Sorption of organic compounds by organo-zeolites. *XVII International Conference of Young Geologists Herl'any 2015. Svaty Jur, Slovakia, 14–16 April, 2016*. In: *Geology, Geophysics and Environment* 42, 1, 139–140.
- Bajda T.** 2015. Organo-zeolite as sorbents of organic and inorganic compounds. *International Scientific Conference: Zeolites in Agriculture, Environmental Protection and Building, Lublin, Poland, 26-27 February, 2015. Invited lecture*
- Bajda T.**, Szala B. 2015. Removal of vanadium(VI) from aqueous solution by HDTMA-modified clinoptilolite. *AMAM 2015: International conference on Applied Mineralogy & Advanced Materials. Taranto, Italy, June, 7–12, 2015*. In: *Scientific Research Abstracts*, vol. 4, 110.
- Bajda T.**, Szala B. 2015. The removal of tungstates from aqueous solution by organo-smectites. *Goldschmidt2015. Prague, Czech Republic, August 16–21, 2015*. In: *Book of Abstracts*, 179.
- Solecka B., **Bajda T.**, Topolska J., Manecki M. 2015. Solubility of mimetite-vanadinite solid solution series – preliminary results. *Goldschmidt2015. Prague, Czech Republic, August 16–21, 2015*. In: *Book of Abstracts*, 2942.
- Solecka B., **Bajda T.**, Topolska J., Manecki M. 2015. Structural and vibrational behaviour of pyromorphite-vanadinite solid solution series. *XVI International Conference of Young Geologists Herl'any 2015. Herlany, Slovakia, 6–9 May, 2015*. In: *Geology, Geophysics & Environment*, 41: 135-136.

- Szala B., **Bajda T.** 2015. Molybdates sorption on smectite modified by long-chain quaternary ammonium salts. *Goldschmidt2015. Prague, Czech Republic, August 16–21, 2015*. In: Book of Abstracts, 3048.
- Szala B., **Bajda T.**, Matusik J. 2015. BTX sorption on Na-P1 organo-zeolites as a process controlled by the type of surfactant. *AMAM 2015: International conference on Applied Mineralogy & Advanced Materials. Taranto, Italy, June, 7–12, 2015*. In: Scientific Research Abstracts, vol. 4, 106.
- Janicka U., **Bajda T.**, Topolska J., Manecki M. 2014. Optimization of synthesis conditions of pyromorphite-vanadinite and mimetite-vanadinite solid solution series. *XV International Conference of Young Geologists Herl'any 2014. Międzybrodzie Żywieckie, Poland, 8–10 May, 2014*. In: *Geology, Geophysics & Environment*, 40: 88.
- Janicka U., **Bajda T.**, Topolska J., Manecki M. 2014. Spectroscopic study of mimetite-vanadinite solid solution series – preliminary results. *EGU European Geosciences Union: General Assembly 2014. Vienna, Austria, 27 April–02 May 2014*. In: Abstracts & Programme, Dysk Flash, Geophysical Research Abstracts, 16, EGU2014-5193-2.
- Janicka U., **Bajda T.**, Topolska J., Manecki M. 2014. Vibrational spectroscopic study of pyromorphite-vanadinite solid solution series. *21<sup>st</sup> General Meeting of IMA: Delving Deeper: Minerals as Mines of Information. Johannesburg, South Africa, 1–5 September, 2014*. In: Abstract volume, Dysk Flash, 164.
- Młynarska M., Manecki M., **Bajda T.** 2014. Structural and Raman spectroscopy studies of schultenite – phosphoschultenite isomorphous series. *XV International Conference of Young Geologists Herl'any 2014. Międzybrodzie Żywieckie, Poland, 8–10 May, 2014*. In: *Geology, Geophysics & Environment*, 40: 110-111.
- Szala B., **Bajda T.** 2014. Sorption of benzene, toluene and p-xylene on HDTMA-modified synthetic zeolite Na-P1. *6<sup>th</sup> FEZA Conference: Porous System: From Novel Materials to Sustainable Solutions. Leipzig, Germany, 8-11 September, 2014*. In: Book of abstracts, dysk flash, 637.
- Szala B., **Bajda T.**, Jeleń A. 2014. Removal of chromium(VI) from aqueous solutions using zeolites modified with HDTMA and ODTMA surfactants. *9<sup>th</sup> International Conference on the Occurrence, Properties and Utilization of Natural Zeolites. Belgrade, Serbia, 8–13 June, 2014*. In: Book of abstracts, 225-226.
- Szala B., **Bajda T.**, Matusik J. 2014. Quantitative determination of ammonium salts in organo-zeolites by infrared spectroscopy. *XV International Conference of Young Geologists Herl'any 2014. Międzybrodzie Żywieckie, Poland, 8–10 May, 2014*. In: *Geology, Geophysics & Environment*, 40: 131-132.
- Szala B., **Bajda T.**, Matusik J. 2014. Quantitative determination of quaternary ammonium salts in organo-zeolites by FTIR. *6<sup>th</sup> FEZA Conference: Porous System: From Novel Materials to Sustainable Solutions. Leipzig, Germany, 8-11 September, 2014*. In: Book of abstracts, dysk flash, 449.
- Turek P., Hycnar E., **Bajda T.** 2014. Changes in physical structure during calcination of carbonate rocks. *XV International Conference of Young Geologists Herl'any 2014. Międzybrodzie Żywieckie, Poland, 8–10 May, 2014*. In: *Geology, Geophysics & Environment*, 40: 133-134.
- Barczyk K., Król M., Mozgawa W., **Bajda T.** 2013. Studies of anion sorption on natural zeolites. *XIII<sup>th</sup> International Conference on Molecular Spectroscopy: from molecules to nano- and biomaterials. Kraków–Białka Tatrzańska, 8–12 September 2013*. In: Abstracts, 221.
- Dziura A., Kwaśniak-Kominek M., Manecki M., **Bajda T.** 2013. Low temperature synthesis and thermodynamic stability of fluoropyromorphite  $Pb_5(PO_4)_3F$  at 5-65°C. *Herlandia 2013: XIV International Conference of Young Geologists Herl'any 2013. Svätý Jur, Slovak Republic, 4–6 April, 2013*. In: *Geology, Geophysics & Environment*, 38: 465.

- Matusik J., **Bajda T.** 2013. Sorption of arsenate and phosphate on positively charged kaolinites. *XV International Clay Conference. 7–11 July 2013 Rio de Janeiro, Brazil*. In: Book of abstracts, abstr. no. 531.
- Rzepka P., Bożęcki P., Manecki M., Rzepa G., **Bajda T.** 2013. The results of multistage liming and lacustrine chalk application in AMD water reservoir in the Muskau Arch near Łęknica, W Poland. *Herlandia 2013: XIV International Conference of Young Geologists Herl'any 2013. Svätý Jur, Slovak Republic, 4–6 April, 2013*. In: *Geology, Geophysics & Environment*, 38: 527-528.
- Szala B., Turek P., **Bajda T.** 2013. Modification of synthetic zeolites and characteristics of their properties. *Goldschmidt2013. Florence, Italy, August 25–30, 2013*. In: *Mineralogical Magazine*, 77(5): 2295.
- Szala B., Turek P., **Bajda T.**, Czerwiński J., Franus W. 2013. Sorption of selected organic compounds of organo-zeolites. *Herlandia 2013: XIV International Conference of Young Geologists Herl'any 2013. Svätý Jur, Slovak Republic, 4–6 April, 2013*. In: *Geology, Geophysics & Environment*, 38: 539-540.
- Turek P., **Bajda T.**, Manecki M. 2013. Dissolution of mimetite  $Pb_5(AsO_4)_3Cl$  in malic acid solutions. *Herlandia 2013: XIV International Conference of Young Geologists Herl'any 2013. Svätý Jur, Slovak Republic, 4–6 April, 2013*. In: *Geology, Geophysics & Environment*, 38: 545–546.
- Turek P., Szala B., Czerwiński J., **Bajda T.**, Matusik J. 2013. BTX sorption by surfactant-modified synthetic zeolite. *Goldschmidt2013. Florence, Italy, August 25–30, 2013*. In: *Mineralogical Magazine*, 77(5): 2366.
- Bajda T.**, Manecki M., Flis J. 2012. Effects of phosphate on the solubility of schultenite  $PbHASO_4$  and mimetite  $Pb_5(AsO_4)_3Cl$ . EMC 2012: European Mineralogical Conference, Frankfurt, Germany, 2–6 September, 2012. In: Theme 9 – Low T geochemistry: Water-rock interactions in natural and contaminated systems.
- Borowicz P., Flis J., **Bajda T.**, Manecki M. 2012. The effect of gluconic acid on solubility of pyromorphite  $Pb_5(PO_4)_3Cl$ . EMC 2012: European Mineralogical Conference, Frankfurt, Germany, 2–6 September, 2012. In: Theme 9 – Low T geochemistry: Water-rock interactions in natural and contaminated systems.
- Król M., Mozgawa W., Barczyk K., Kozanecki M., **Bajda T.** 2012. Application of infrared and Raman spectra in the studies of heavy metal cations sorption on zeolites. *EUCMOS 2012: 31st European Congress on Molecular Spectroscopy, Cluj-Napoca, Romania, August 26–31, 2012*. In: Book of abstracts, 261.
- Kwaśniak M., Manecki M., Lempart M., **Bajda T.**, Matusik J. 2012. Carbonate substitution in hydroxylpyromorphite  $Pb_5(PO_4)_3OH$ . EMC 2012: European Mineralogical Conference, Frankfurt, Germany, 2–6 September, 2012. In: Theme 6 – Mineralogical crystallography: Handling structural complexity: theoretical and experimental methods applied to unravel structural hierarchies.
- Kwaśniak-Kominek M., Manecki M., **Bajda T.**, Rakovan J. 2012. Pseudomorphic replacement of single cerussite  $PbCO_3$  crystals by hydroxylpyromorphite  $Pb_5(PO_4)_3OH$  in phosphate solutions. EGU European Geosciences Union: General Sssembly, Vienna, Austria, 22–27 April, 2012. In: Abstracts and Programme.
- Lempart M., Kwaśniak-Kominek M., Manecki M., Matusik J., **Bajda T.** 2012. Characterization of  $CO_3^{2-}$  substitution in hydroxylmimetite  $Pb_5(AsO_4)_3OH$ . *XIII International Conference of Young Geologists. Herl'any, Slovak Republic, 26. – 28. 04. 2012*. In: *Herlandia abstract book*: 63-64.
- Matusik J., **Bajda T.** 2012. Chromates sorption by functionalized Kaolin group minerals. *49th Annual Meeting of the Clay Mineral Society. Golden, Colorado, USA, July 7–11, 2012*. In: Book of abstracts, 107-108.

- Matusik J., **Bajda T.** 2012. Kaolinite-based sorbent of hexavalent chromium: sorption mechanism, pH effect and desorption behaviour. *Contemporary Problems of Geochemistry: The 2nd Conference Organized by the Geochemical Group of the Mineralogical Society of Poland. Kielce, Poland, September 24–26, 2012.* In: Mineralogia – Special Papers, 39: 55-56.
- Matusik J., Zimowska M., **Bajda T.** 2012. Modified kaolinites and halloysite with anion sorption properties. MECC'12: 6th Mid-European Clay Conference. Průhonice, Czech, September 4–9, 2012. In: Book of abstracts, 70.
- Rzepka P., **Bajda T.**, Bożęcki P., Manecki M., Rzepa G. 2012. Clinoptilolite treatment of AMD waters from Africa reservoir in the Łuk Mużakowa, W Poland. *Joint 5<sup>th</sup> Mineral Sciences in the Carpathians Conference (MSCC) and 3<sup>rd</sup> Central-European Mineralogical Conference (CEMC). Miskolc, Hungary, 19-21 April 2012.* In: Acta Mineralogica-Petrographica, Abstract Series, Szeged, vol. 7: 120.
- Rzepka P., Bożęcki P., Manecki M., Rzepa G., **Bajda T.** 2012. Neutralization of AMD waters from Africa reservoir in the Muskau Arch near Łęknica, W Poland. *XIII International Conference of Young Geologists. Herl'any, Slovak Republic, 26. – 28. 04. 2012.* In: Herlandia abstract book: 72-73.
- Stożek K., Kosobudzka A., Manecki M., **Bajda T.**, Rakovan J. 2012. Experimental and computer modeling of cerussite  $PbCO_3$  dissolution in the presence of arsenates and phosphates at pH from 3 to 11. *XIII International Conference of Young Geologists. Herl'any, Slovak Republic, 26. – 28. 04. 2012.* In: Herlandia abstract book: 45-46.
- Bajda T.**, Figuła A., Manecki M., Marchlewski T. 2011. Pyromorphite formation from natural and surfactant-modified montmorillonite adsorbed lead. *Goldschmidt 2011 Earth, Life and Fire. Prague, Czech Republic, August 14-19, 2011.* In: Mineral. Mag., 75: 471.
- Byrdziak B., Dembska P., Manecki M., **Bajda T.** 2011. High temperature synthesis of chlorapatite and manganese chlorapatite. *VIII Meeting of the Mineralogical Society of Poland & XVIII Meeting of the Petrology Group of the Mineralogical Society of Poland. Bukowina Tatrzańska, Poland, 21-23 October 2011.* In: Miner. – Spec. Paper., 38: 80-81.
- Figuła A., Janicka U., **Bajda T.** 2011. Formation of brom-pyromorphite on surfactant-modified smectite. *11th international conference of young geologists. Svätý Jur, Slovak Republic, 29. April – 1. May 2010.* In: Mineralia Slovaca 43(1), Geovestník: 61.
- Kohut M., Manecki M., **Bajda T.** 2011. Modeling of ettringite reaction with  $CO_2$  in mineral carbonatization. *VIII Meeting of the Mineralogical Society of Poland & XVIII Meeting of the Petrology Group of the Mineralogical Society of Poland. Bukowina Tatrzańska, Poland, 21-23 October 2011.* In: Miner. – Spec. Paper., 38: 112.
- Kosobudzka A., Stożek K., Manecki M., **Bajda T.** 2011. Transformation of cerussite into lead phosphates and arsenates at various pH. *VIII Meeting of the Mineralogical Society of Poland & XVIII Meeting of the Petrology Group of the Mineralogical Society of Poland. Bukowina Tatrzańska, Poland, 21-23 October 2011.* In: Miner. – Spec. Paper., 38: 118-119.
- Kwaśniak-Kominek M., Manecki M., **Bajda T.** 2011. Limitations of cerussite as a mineral controlling lead pollution. *11th international conference of young geologists. Svätý Jur, Slovak Republic, 29. April – 1. May 2010.* In: Mineralia Slovaca 43(1), Geovestník: 66.
- Kwaśniak-Kominek M., Manecki M., **Bajda T.** 2011. Thermodynamic stability of fluoropyromorphite  $Pb_5(PO_4)_3F$  at 5, 25, 45, and 65°C. *VIII Meeting of the Mineralogical Society of Poland & XVIII Meeting of the Petrology Group of the Mineralogical Society of Poland. Bukowina Tatrzańska, Poland, 21-23 October 2011.* In: Miner. – Spec. Paper., 38: 126.
- Lempart M., Manecki M., **Bajda T.**, Gawel A., Mozgawa W. 2011. Carbonate substitutions in hydroxymimetite  $Pb_5(AsO_4)_3OH$ . *VIII Meeting of the Mineralogical Society of Poland & XVIII Meeting of the Petrology Group of the Mineralogical Society of Poland. Bukowina Tatrzańska, Poland, 21-23 October 2011.* In: Miner. – Spec. Paper., 38: 129-130.

- Misztela M., Manecki M., **Bajda T.**, Pršek J. 2011. Low temperature synthesis of libethenite  $\text{Cu}_2\text{PO}_4\text{OH}$  and olivenite  $\text{Cu}_2\text{AsO}_4\text{OH}$  solid solutions. *VIII Meeting of the Mineralogical Society of Poland & XVIII Meeting of the Petrology Group of the Mineralogical Society of Poland. Bukowina Tatrzańska, Poland, 21-23 October 2011.* In: *Miner. – Spec. Paper.*, 38: 142.
- Orligóra W., Kwaśniak-Kominek M., Manecki M., **Bajda T.** 2011. Thermodynamic stability of hydroxylpyromorphite  $\text{Pb}_5(\text{PO}_4)_3\text{OH}$  at 5, 25, 45, and 65°C. *VIII Meeting of the Mineralogical Society of Poland & XVIII Meeting of the Petrology Group of the Mineralogical Society of Poland. Bukowina Tatrzańska, Poland, 21-23 October 2011.* In: *Miner. – Spec. Paper.*, 38: 155.
- Rzepka P., **Bajda T.**, Manecki M. 2011. Adsorption of phosphate by clinoptilolite exchanged with Pb. *VIII Meeting of the Mineralogical Society of Poland & XVIII Meeting of the Petrology Group of the Mineralogical Society of Poland. Bukowina Tatrzańska, Poland, 21-23 October 2011.* In: *Miner. – Spec. Paper.*, 38: 163.
- Rzepka P., Bożęcki P., Manecki M., Rzepa G., **Bajda T.** 2011. Mineral suspension and hydrochemical stratification in AMD reservoirs of the Muskau Arch near Łęknica, W Poland. *VIII Meeting of the Mineralogical Society of Poland & XVIII Meeting of the Petrology Group of the Mineralogical Society of Poland. Bukowina Tatrzańska, Poland, 21-23 October 2011.* In: *Miner. – Spec. Paper.*, 38: 164.
- Zgłobica T., **Bajda T.**, Manecki M., Szrek D. 2011. Immobilization of Zn, Pb and Cd in soils by phosphate fertilizers. *11th international conference of young geologists. Svätý Jur, Slovak Republic, 29. April – 1. May 2010.* In: *Mineralia Slovaca* 43(1), *Geovestník*: 77-78.
- Figuła A., **Bajda T.** 2010. Formation of brom-pyromorphite as the effect of lead and phosphates sorption on surfactantmodified smectite. *20<sup>th</sup> General Meeting of the International Mineralogical Association. Budapest, Hungary, 21-27 August 2010.* In: *Acta Miner. Petr.*, Abstract Ser., 6: 399.
- Mozgawa W., Król M., **Bajda T.** 2010. Application of IR spectra in the studies of anion sorption on natural sorbents. *EUCMOS 2010: 30<sup>th</sup> European Congress on Molecular Spectroscopy with GISR 2010. Florence, Italy, 29 August – 3 September.* In: *Book of abstracts*: 36.
- Bajda T.**, Manecki M., Cieśla A. 2009. Effects of phosphate on the solubility of lead arsenates. *The 19th Annual V.M. Goldschmidt Conference. Davos, Switzerland, 21 - 26 June 2009.* In: *Geoch. Cosmoch. Acta*, 73(13S), Suppl.: A74.
- Maneck M., Flis J., **Bajda T.** 2009. Formation and transformation of pyromorphite nanocrystals in the environment: Review. *The 19th Annual V.M. Goldschmidt Conference. Davos, Switzerland, 21 - 26 June 2009.* In: *Geoch. Cosmoch. Acta*, 73(13S), Suppl.: A826.
- Bajda T.**, Kłapyta Z. 2008. Sorption of chromate by clinoptilolite, glauconite and montmorillonite modified with alkylammonium surfactant. *MECC'08 : 4th Mid-European Clay Conferenc 2008, Zakopane, Poland, September 22–27, 2008.* In: *Miner. – Spec. Paper.*, 33: 43.
- Bartkowiak A., Długosz J., **Bajda T.** 2008. Micromorphology of quartz grain surfaces from mineral-organic soils and sediments from the Unislaw Basin (Poland). *2nd Central-European Mineralogical Conference 2008 (CEMC): XV meeting of the Petrology Group of the Mineralogical Society of Poland. Szklarska Poręba, 9–14 September 2008.* In: *Miner. – Spec. Paper.*, 32: 43.
- Dzik E., Manecki M., **Bajda T.** 2008. Application of the sequential extraction procedure for speciation of selected heavy metals in airborne particulate matter. *2nd Central-European mineralogical conference 2008 (CEMC): XV meeting of the Petrology Group of the Mineralogical Society of Poland. Szklarska Poręba, 9–14 September 2008.* In: *Miner. – Spec. Paper.*, 32: 63.

- Figuła A., Kleszczewska A., Manecki M., **Bajda T.** 2008. Application of modern glass fertilizers for in situ immobilization of Pb pollution in acidic soils. *IXth International geological conference of Ph. D. students and young scientists. Zawoja–Herl'any, 3rd–6th April 2008.* In: Book of abstracts: 26.
- Flis J., Manecki M., **Bajda T.** 2008. Dissolution of vanadinite at pH= 2.0–6.0 and 25°C. *2nd Central-European mineralogical conference 2008 (CEMC): XV meeting of the Petrology Group of the Mineralogical Society of Poland. Szklarska Poręba, 9–14 September 2008.* In: Miner. – Spec. Paper., 32: 66.
- Kaltenberg E., Kleszczewska A., Flis J., Manecki M., **Bajda T.** 2008. Assaying arsenate and phosphate concentrations using the blue molybdate method. *IXth International Geological Conference of Ph. D. Students and Young Scientists, Zawoja–Herl'any, 3rd–6th April 2008.* In: Book of abstracts: 40.
- Klasa J., Flis J., Manecki M., **Bajda T.** 2008. The synthesis of vanadinite  $Pb_5(VO_4)_3Cl$ . *IX International Geological Conference of Ph. D. Students and Young Scientists, Zawoja–Herl'any, 3rd–6th April 2008.* In: Book of abstracts: 44.
- Kleszczewska A., Manecki M., Kisielowska E., **Bajda T.** 2008. Mimetite formation from lead adsorbed on surface of *Bacillus Subtilis*. *2nd Central-European Mineralogical Conference 2008 (CEMC): XV Meeting of the Petrology Group of the Mineralogical Society of Poland. Szklarska Poręba, 9–14 September 2008.* In: Miner. – Spec. Paper., 32: 91.
- Matusik J., **Bajda T.**, Manecki M. 2008. Removal of aqueous cadmium by hydroxylapatite and fluoroapatite. *IX International Geological Conference of Ph. D. Students and Young Scientists, Zawoja–Herl'any, 3rd–6th April 2008.* In: Book of abstracts: 64.
- Płonka A., Manecki M., Matyjasik M., Summers S., Inglefield C., **Bajda T.**, Majka J. 2008. Alterations on the apatite and calcite surface buried in arctic soil (Spitsbergen): an AFM and SEM study. *2nd Central-European Mineralogical Conference 2008 (CEMC): XV Meeting of the Petrology Group of the Mineralogical Society of Poland. Szklarska Poręba, 9–14 September 2008.* In: Miner. – Spec. Paper., 32: 134–135.
- Flis J., Manecki M., **Bajda T.** 2007. Solubility of pyromorphite-mimetite solid solutions at 5–65°C: Variability of thermodynamic stability of minerals from pyromorphite-mimetite series at 5–65°C. *The 17th Annual Goldschmidt Conference. Cologne, Germany, 19 - 24 August 2007.* In: Geoch. Cosmoch. Acta, 71(15), Suppl.: A492-A492.
- Flis J., Strycharczyk-Budzyń M., **Bajda T.**, Manecki M. 2007. Izomorficzne podstawienia anionowe w szeregu piromorfit-mimetyt. *Studencka konferencja geologiczna: Miękinia 1–3 VI 2007.* W: Materiały konferencyjne: 16–17.
- Kasprzak J., **Bajda T.**, Manecki M. 2007. Adsorption of phosphate by clinoptilolite exchanged with Pb, Zn and Cd. *VIII. Medzinárodná Konferencia Doktorandov a Mladých Vedeckých Pracovníkov: Herl'any, 2–4 Marz 2007.* In: Mineralia Slovaca, 39(2), Geovestník s. 10.
- Kleszczewska A., Cieśla A., Manecki M., **Bajda T.** 2007. Colorimetric method for measuring an arsenate concentration in the presence of phosphates. *VIII. Medzinárodná Konferencia Doktorandov a Mladých Vedeckých Pracovníkov: Herl'any, 2–4 Marz 2007.* In: Mineralia Slovaca, 39(2), Geovestník s. 10–11.
- Kleszczewska A., Manecki M., **Bajda T.** 2007. Mimetite formation from goethite adsorbed lead. *The 17th Annual Goldschmidt Conference. Cologne, Germany, 19 - 24 August 2007.* In: Geoch. Cosmoch. Acta, 71(15), Suppl.: A492-A492.
- Matusik J., **Bajda T.**, Manecki M. 2007. Iloczyn rozpuszczalności fosforanu kadmu  $Cd_5H_2(PO_4)_4 \cdot 4H_2O$  dla 20°C. *Studencka konferencja geologiczna: Miękinia 1–3 VI 2007.* W: Materiały konferencyjne: 23–24.
- Matusik J., **Bajda T.**, Manecki M. 2007. Immobilization of aqueous cadmium by addition of phosphates. *VIII. Medzinárodná Konferencia Doktorandov a Mladých Vedeckých Pracovníkov: Herl'any, 2–4 marca 2007.* In: Mineralia Slovaca, 39(2), Geovestník s. 13–14.



- Szrek D., Motyka A., **Bajda T.**, Manecki M. 2007. Immobilization of Pb, Zn and Cd in polluted soil by the addition of mineral sorbents and phosphate fertilizers. *VIII. Medzinárodná Konferencia Doktorandov a Mladých Vedeckých Pracovníkov: Herl'any, 2–4 Marz 2007*. In: *Mineralia Slovaca*, 39(2), Geovestník s. 13-14
- Wojnarski D., **Bajda T.**, Manecki M. 2007. Synthesis of cadmium pyromorphite ( $Pb_{5-x}Cd_x(PO_4)_3Cl$ ). *VIII. Medzinárodná Konferencia Doktorandov a Mladých Vedeckých Pracovníkov: Herl'any, 2–4 Marz 2007*. In: *Mineralia Slovaca*, 39(2), Geovestník s. 20
- Bajda T.** 2006. Związki chromu w glebach zanieczyszczonych ściekami galwanizerskimi. *Series: Trace Elements in the Environment IX Symposium, Sarnówek 11-12 May 2006*. In: *Book of Abstracts*, 17-18.
- Bogucka A., Manecki M., **Bajda T.**, Mozgawa W. 2006. Mimetite formation from goethite adsorbed arsenate. *VII. Medzinárodná Konferencia Doktorandov a Mladých Vedeckých Pracovníkov, Modra-Harmonia (Slovakia), 4-6 May 2006*. In: *Mineralia Slov.*, 38(4), Geovestník, 4.
- Flis J., Manecki M., **Bajda T.**, Mozgawa W. 2006. Anionic substitutions in the lead apatites series  $Pb_{10}(PO_4)_6Cl_2$  -  $Pb_{10}(AsO_4)_6Cl_2$  -  $Pb_{10}(VO_4)_6Cl_2$  (preliminary results). *VII. Medzinárodná Konferencia Doktorandov a Mladých Vedeckých Pracovníkov, Modra-Harmonia (Slovakia), 4-6 May 2006*. In: *Mineralia Slov.*, 38(4), Geovestník, 5.
- Rzepa G., **Bajda T.**, Sikora M. 2006. Variability of concentration and bounding form of trace elements in the ferruginous sediments of Poland. *Series: Trace Elements in the Environment IX Symposium, Sarnówek 11-12 May 2006*. In: *Book of Abstracts*, 200-201.
- Wegner M., Manecki M., **Bajda T.** 2006. Immobilization of lead from aqueous solutions using fertilizers. *VII. Medzinárodná Konferencia Doktorandov a Mladých Vedeckých Pracovníkov, Modra-Harmonia (Slovakia), 4-6 May 2006*. In: *Mineralia Slov.*, 38(4), Geovestník, 14-15.
- Wojnarski D, Matusik J., **Bajda T.**, Manecki M. 2006. Reaction of Cd sorbed on ferrihydrite with phosphate ions. *VII. Medzinárodná Konferencia Doktorandov a Mladých Vedeckých Pracovníkov, Modra-Harmonia (Slovakia), 4-6 May 2006*. In: *Mineralia Slov.*, 38(4), Geovestník, 15.
- Bogucka A., Manecki M., **Bajda T.**, Gaweł A. 2005. Mechanizmy krystalizacji piromorfitu z fosforanów adsorbowanych na goethycie. *VI Międzynarodowa Konferencja Doktorantów i Młodych Pracowników Nauki Miękinia-Herl'any 2005, Miękinia (Polska), 7-8 kwietnia 2005*. W: *Prz. Geol.*, 53(9): 787-788.
- Cieśla A., **Bajda T.**, Manecki M., Mozgawa W. 2005. Wpływ jonów fosforanowych na stabilność chemiczną arsenianu ołowiu. *VI Międzynarodowa Konferencja Doktorantów i Młodych Pracowników Nauki Miękinia-Herl'any 2005, Miękinia (Polska), 7-8 kwietnia 2005*. W: *Prz. Geol.*, 53(9): 788.
- Lelonek M., **Bajda T.** 2005. Dendryty w przyrodzie. *VI Międzynarodowa Konferencja Doktorantów i Młodych Pracowników Nauki Miękinia-Herl'any 2005, Miękinia (Polska), 7-8 kwietnia 2005*. W: *Prz. Geol.*, 53(9): 793.
- Marchlewski T., **Bajda T.**, Manecki M. 2005. Powstawanie piromorfitu na smektycie zawierającym zaadsorbowany ołów. *VI Międzynarodowa Konferencja Doktorantów i Młodych Pracowników Nauki Miękinia-Herl'any 2005, Miękinia (Polska), 7-8 kwietnia 2005*. W: *Prz. Geol.*, 53(9): 794.
- Matusik J., **Bajda T.**, Manecki M., Gaweł A. 2005. Próba syntezy i charakterystyka fazowa chlorapatytów wapnia, ołowiu, cynku i miedzi. *VI Międzynarodowa Konferencja Doktorantów i Młodych Pracowników Nauki Miękinia-Herl'any 2005, Miękinia (Polska), 7-8 kwietnia 2005*. W: *Prz. Geol.*, 53(9): 794.

Matyjasik M., Manecki M., Inglefield C., Toller S., Marchlewski T., **Bajda T.** 2005. Precipitation by wetting-drying mechanisms observed on calcite and gypsum surfaces with atomic force microscopy and scanning electron microscopy. *GSA Annual Meeting & Exposition, 2005 Salt Lake City Annual Meeting, October 16-19, 2005*. In: *Book of abstracts: Paper No. 140-12*.

Mozgawa W., **Bajda T.** 2005. Application of vibrational spectra in the studies of cation sorption on zeolites. *VIIIth International Conference of Molecular Spectroscopy, From molecules to molecular biological systems and molecular materials: Role of molecular interactions and recognition. Wrocław - Łądek Zdrój, 13-18 IX 2005*. In: *Book of abstracts: P-54*.

Wojnar A., Manecki M., **Bajda T.** 2005. Bioaccessibility of As(V) and Pb(II) from mimetite. *The 15th Annual Goldschmidt Conference. Moscow, Idaho, USA, 20 - 25 May 2005*. In: *Geoch. Cosmoch. Acta*, 69(10), Suppl.: A628-A628.

**Bajda T.**, Kłapyta Z. 2004. Sorption of chromate by clinoptilolite and montmorillonite modified with alkylammonium surfactants. *2<sup>nd</sup> Mid-European Clay Conference. Miskolc, Hungary, 20-24 September 2004*. In: *Acta Miner. Petr. Szeged, Abstract Ser.*, 4: 11.

**Bajda T.**, Mozgawa W., Manecki M., Szmit E., Sikora M. 2004. Vibrational spectra of pyromorphite-mimetite solid solutions. *XXVII European Congress on Molecular Spectroscopy. Kraków, Poland, 5-10 September 2004*. In: *Book of abstracts*, 275.

**Bajda T.** 2002. Adsorpcja związków chromu(VI) na wybranych sorbentach mineralnych. W: *Spraw. z Pos. Kom. Nauk. Miner. PAN Oddz. w Krakowie*, XLVI/1.

**Bajda T.**, Rzepa G. 2002. Mineral composition of ferruginous precipitates from Kokino Nero (Greece) – preliminary results. *Slovensko-Cesko-Pol'ské Mineralogicko-Petrograficko-Ložiskové Dni, Herlany (Slovakia), 27-29 August 2002*. In: *Zbornik abstraktov*, 12.

Mozgawa W., **Bajda T.** 2002. Spectroscopic study of heavy metals sorption on clinoptilolite. *XXVI European Congress on Molecular Spectroscopy, Villeneuve d'Ascq, France, 1-6 September 2002*. In: *Book of Abstracts*, 158.

Rzepa G., **Bajda T.**, Kraczkowska I., Gołębiowska B. 2002. Comparison of iron oxides from different hypergenic formations using the methods of selective chemical extraction. *Medzinárodná Konferencia Doktorandov a Mladých Vedeckých Pracovníkov, Herlany (Slovakia), 8-9 April 2002*. In: *Mineralia Slov.*, 34(1), *Geovestnik*, 10-11.

**Bajda T.** 2001. Adsorption of chromium compounds on various mineral raw materials. *15<sup>th</sup> International Symposium on Environmental Biogeochemistry, Wrocław, Poland, September 11-15, 2001*. In: *Biogeochemical Processes and Cycling of Elements in the Environment*. Weber J., Jamroz E., Drozd J., Karczewska A (ed), 281-282.

**Bajda T.** 2001. Adsorption of chromate on various geological materials. *Konferencia Doktorandov a Mladých Vedeckých Pracovníkov, Herlany (Slovakia), 23-24 April 2001*. In: *Mineralia Slov.*, 33(1), *Geovestnik*, 9-10.

**Bajda T.**, Krajewski M. 2001. Geochemical, mineralogical and petrological diversification of Upper Jurassic limestones of the Zakrzówek horst, Kraków region, southern Poland. *Konferencia Doktorandov a Mladých Vedeckých Pracovníkov, Herlany (Slovakia), 23-24 April 2001*. In: *Mineralia Slov.*, 33(1), *Geovestnik*, 10.

**Bajda T.**, Franus W., Manecki M. 2000. Sorption of selected heavy metals (Cr(III), Cu(II), Pb(II)) on smectite-clinoptilolite shales of the Outer Flysh Carpathians (Poland). *International Conference Minerals of the Carpathians, Miskolc (Hungary), 9-10 March 2000*. In: *Acta Miner. Petr. Szeged*, 41, Supl. A, 10.

Franus W., **Bajda T.**, Manecki M. 2000. Potential use of clinoptilolite-smectite claystones from the Outer Flysh Carpathians (Poland) for remediation. *EMU School meeting: Environmental Mineralogy, Budapest, May 18-19, 2000*. In: *Acta Miner. Petr. Szeged*, 41, Supl. B, 26.

---

Kłapyta Z., Manecki A., Krzyżanowski A., **Bajda T.** 1999. Sorption properties of smectite-clinoptilolite shales of the Outer Flysh Carpathians (Poland). *Conference of The European Clay Groups Association, Euroclay'99, Kraków, 5-9 September 1999*. In: Book of abstracts, 102.

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