

Publications

Books and chapters in books

Koteja, A., Biskup, I., Góra, K., Matusik, J. (2015) Organokaolinit jako adsorbent jonów Cr(III) i Ni(II) - Organo-kaolinite as an adsorbent of Cr(III) and Ni(II) ions. W: Sorbenty mineralne 2015: surowce, energetyka, ochrona środowiska, nowoczesne technologie: [monografia] / red. nauk. Tomasz Bajda, Elżbieta Hycnar. Kraków : Wydawnictwa AGH, 2015. ISBN: 978-83-7464-793-9, s. 131-143.

Koteja, A., Matusik, J. (2015) Charakterystyka strukturalna minerałów z grupy smektytu interkalowanych bromkiem heksadecylotrimetyloamoniowym - Structural characterization of smectite group minerals intercalated with hexadecyltrimethylammonium bromide. W: Sorbenty mineralne 2015: surowce, energetyka, ochrona środowiska, nowoczesne technologie: [monografia] / red. nauk. Tomasz Bajda, Elżbieta Hycnar. Kraków : Wydawnictwa AGH, 2015. ISBN: 978-83-7464-793-9, s. 145–155.

Reviewed articles

Koteja A., Matusik J., Luberd-Durnas K. & Szczerba M., (2019) The Nature of Interactions and UV-Induced Response within alpha-Zirconium Phosphate Intercalation Compounds with Azobenzenes. *Materials* **12**(9), 1–18.

Koteja, A. and Matusik, J. (2019) Preparation of azobenzene intercalated kaolinite and monitoring its photo-induced activity. *Clay Minerals*, **54**(1), 57-66.

Kunecki, P., Panek, R., **Koteja, A.**, Franus, W. (2018) Influence of the reaction time on the crystal structure of Na-P1 zeolite obtained from coal fly ash microspheres. *Microporous and Mesoporous Materials*, **266**, 102-108.

Koteja, A., Szczerba, M., Matusik, J. (2017) Smectites intercalated with azobenzene and aminoazobenzene: Structure changes at nanoscale induced by UV light. *Journal of Physics and Chemistry of Solids*, **111**, 294–303.

Koteja, A. and Matusik, J. (2015) Di- and triethanolamine grafted kaolinites of different structural order as adsorbents of heavy metals. *Journal of Colloid and Interface Science*, **455**, 83-92.

Conference materials

Koteja, A., Luberd-Durnaś, K., Szczerba, M., Matusik, J. (2018) Highly ordered α -zirconium phosphate intercalate with *p*-aminoazobenzene: structure refinement and interaction with UV radiation revealed by molecular modeling. W: 09 MECC : 9th Mid-European Clay Conference: Zagreb, September 17–21, 2018, ISBN 978-953-6923-39-7, ISBN 978-953-6076-46-8, ISBN: 978-953-6907-71-7. s. 63.

Koteja, A. Matusik, J. (2018) Photoresponsive behavior of α -zirconium phosphate functionalized with azobenzenes. W: III international conference on Applied mineralogy & advanced materials: MMS 2018 Minerals & Materials Sciences: Bari, Italy, July 24–26, 2018, Vol. 9, ISSN 2464-9147, ISBN: 978-88-7522-087-7. s. 45.

Koteja, A., Matusik, J. (2018) Monitoring the azobenzene isomerization in layered intercalation compounds using the infrared spectroscopy. W: 55th annual meeting The Clay Minerals Society Urbana-Champaign, Illinois, USA, June 11-14, 2018. s. 136.

Koteja, A., Matusik, J. (2017) UV triggered basal spacing shifts in smectite intercalates. W: ICC 2017: XVI International Clay Conference: Granada, Spain, July, 17–21, 2017, Vol. 7, ISSN 2464-9147, ISBN: 978-88-7522-089-1. s. 426.

Koteja, A., Góra, K., Matusik, J. (2017) Kanemite as a precursor for the synthesis of photoactive layered materials. W: ICC 2017: XVI International Clay Conference: Granada, Spain, July, 17–21, 2017, Vol. 7, ISSN 2464-9147, ISBN: 978-88-7522-089-1. s. 425.

Łepko, A., Biskup, I., **Koteja, A., Matusik, J. (2017)** Insight into the structure of kaolinite and layered zirconium phosphate intercalated with photoactive molecules. W: ICC 2017: XVI International Clay Conference: Granada, Spain, July, 17–21, 2017, Vol. 7, ISSN 2464-9147, ISBN: 978-88-7522-089-1. s. 472.

Matusik, J., **Koteja, A., Łepko, A. (2017)** The synthesis approach for the intercalation of photoactive molecules into kaolinite and layered zirconium phosphate. W: Living clays : The 54th Annual Clay Minerals Society conference: from nano-scale interactions to incorporation in everyday life : June 2–7, 2017, Edmonton, Alberta Canada, s. 13-14.

Koteja, A., Góra, K., Matusik, J. (2017) Monitoring and understanding the UV induced structural changes for functionalized smectites and kanemite. W: Living clays : The 54th Annual Clay Minerals Society conference: from nano-scale interactions to incorporation in everyday life : June 2–7, 2017, Edmonton, Alberta Canada, s. 79–80.

Matusik, J., **Koteja, A. (2016)** Kaolinite co-intercalated with benzylalkylammonium salts and azobenzene: structural features and photoswitching effect. Resurgent clays: 53rd annual meeting of the Clay Minerals Society: June 5–8, 2016 : Atlanta, Georgia : program & abstracts.

Koteja, A., Szczerba, M., Matusik, J. (2016) Molecular dynamics simulations of azobenzene intercalates in smectites. 8th Mid-European Clay Conference : July 4–8, 2016, Košice, Slovakia : book of abstracts / ed. Jana Valúchová.

Koteja, A., Matusik, J. (2016) Na-montmorillonite modified with ammonium salts and azobenzene as a photoactive nanomaterial. *Geology, Geophysics & Environment / Akademia Górniczo-Hutnicza im. Stanisława Staszica w Krakowie* ; ISSN 2299-8004. — Tytuł poprz.: *Geologia : kwartalnik Akademii Górniczo-Hutniczej im. Stanisława Staszica w Krakowie* ; ISSN: 0138-0974. — 2016 vol. 42 no. 1, s. 87–88.

Koteja, A., Matusik, J. (2016) Photoactivity of azobenzene intercalated in organo-smectites. W: Resurgent clays : 53rd annual meeting of the Clay Minerals Society : June 5–8, 2016 : Atlanta, Georgia : program & abstracts.

Koteja, A., Matusik, J. (2016) Structural differences of kaolinite and montmorillonite co-intercalated with ammonium salts and azobenzene. W: MECC 2016: 8th Mid-European Clay Conference : July 4–8, 2016, Košice, Slovakia : book of abstracts / ed. Jana Valúchová.

Koteja, A., Matusik, J. (2015) Structure and photoresponse of azobenzene-smectite intercalation compounds to UV radiation. W: EUROCLAY 2015: International conference on Clay science and technology, Edinburgh, 5th–10th July: programme & abstracts, s. 20.

Koteja, A., Matusik, J. (2015) Preparation and characterization of azobenzene-smectite photoactive mineral nanomaterials. *Geology, Geophysics & Environment*, vol. 41 no. 1, s. 99-100. XVI International conference of young geologists: Herl'any 2015.

Matusik, J., **Koteja, A.** (2015) Organo-kaolinite: 50 Å intercalation compound with azobenzene. W: EUROCLAY 2015: International conference on Clay science and technology, Edinburgh, 5th–10th July: programme & abstracts, s. 23.

Koteja, A., Matusik, J. (2014) Sorption efficiency of selected metals on kaolinites grafted with aminoalcohols. W: MECC 14: 7th Mid-European Clay Conference: 16-19.09.2014, Dresden, Germany, s. 289.

Koteja, A., Matusik, J. (2014) Efficiency and mechanism of heavy metals sorption on grafted kaolinites of different structural order. W: Everything is big: from nanoparticles to planets : 51st annual meeting of the Clay Minerals Society, 17-21.05.2014, Texas A&M University, s. 137-138.

Koteja, A., Matusik, J. (2014) Improved copper sorption on grafted kaolinites of different structural order. *Geology, Geophysics & Environment*, 40 no. 1, s. 96-97. International conference of Young geologists Herl'any 2014 : Międzybrodzie Żywieckie, Poland.

Kraków, 16.12.2019