

Publications

Books and chapters in books

Matusik, J. (2019) Inżynieria Mineralna – nowe funkcjonalne materiały dla środowiska, medycyny i przemysłu (*eng. Mineral Engineering – new functional materials for the environment, medicine and industry*) W: Mineralogia Szczegółowa (*eng. Advanced Mineralogy*), Author and Editor: Andrzej Manecki. MINERALPRESS, ISBN: 978-83-933330-5-9, 314-316.

Matusik, J. (2017) Natural and synthetic layered minerals in nanotechnologies (in Polish) Naturalne i syntetyczne minerały o budowie warstwowej w nanotechnologiach. Cykl: Nauka dla Ciekawych nr 10. Wydawnictwa AGH.

Matusik, J. (2016) Halloysite-like structure via delamination of kaolinite. W: Nanosized Tubular Clay Minerals, edytorzy: Peng Yuan, Antoine Thill, Faïza Bergaya. Elsevier. ISBN: 9780081002933, s. 409-428.

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Matusik, J. (2016) Organo-functionalized kaolin-group minerals: synthesis, structure and properties, rozdział 3, 1-12 W: The Clay Minerals Society Workshop Lecture Series, vol. 20: Surface Modification of Clays and Nanocomposites, ed. Gary Beall. ISBN: 978-1-881208-44-0.

Matusik, J., Rzepa, G. (2016) Department of Mineralogy, Petrography and Geochemistry, 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. 2, s. 218–222.

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.

Maziarz, P., Prokop, A., **Matusik, J.** (2015) Charakterystyka porównawcza zdolności sorpcyjnych haloizytu surowego, kalcynowanego i aktywowanego kwasowo względem Pb(II), Cd(II), Zn(II) oraz As(V) - A comparative study of raw, calcined and acid activated halloysite sorption capacity towards Pb(II), Cd(II), Zn(II) and As(V). 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. 193–211.

Matusik, J. (2014) Wykorzystanie minerałów kaolinitowych z polskich złóż do syntezy hybrydowych, organomineralnych nanomateriałów o kontrolowanych właściwościach — (Use of kaolinite-rich minerals from Polish deposits for the synthesis of hybrid, organo-mineral nanomaterials of controlled properties) W: Innowator AGH : osiągnięcia naukowców Akademii Górniczo-Hutniczej im. Stanisława Staszica w Krakowie = AGH UST Innovator : achievements of researchers at the AGH University of Science and Technology in Krakow, Poland. Dział Informacji i Promocji. Akademia Górniczo-Hutnicza im. Stanisława Staszica, 2014. — ISBN: 978-83-7464-751-9. — S. 44–46. — Tekst pol.-ang.

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- Maziarz, P., **Matusik, J.**, Radziszewska, A. (2019) Halloysite/zero-valent iron nanocomposites for removal of Pb(II)/Cd(II) and As(V)/Cr(VI): Competitive effects, regeneration possibilities and mechanisms. *Journal of Environmental Chemical Engineering*, 103507 (1-11).
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- Matusik, J.**, Hyla, J., Maziarz, P., Rybka, K., Leiviskä, T. (2019) Performance of halloysite-Mg/Al LDH materials for aqueous As(V) and Cr(VI) removal. *Materials*, 12, 3569.
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Matusik, J., Deng, Y. (2020) Fumonisin FB1 interaction with Mg-Al and Mg-Fe layered double hydroxides: removal efficiency and mechanisms. 57th Annual Meeting of the Clay Minerals Society (virtual conference), 18-23.10.2020. Book of abstracts.

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Rybka, K., **Matusik, J.** (2019) Physico-chemical studies of Mg/Fe and Mg/Al Layered Double Hydroxides obtained via transformation of minerals. W: EUROCLAY 2019 [Dokument elektroniczny] : International Conference on Clay Science and Technology: July 2019, Paris :book of abstracts, 540.

Matusik, J., Rybka, K., Maziarz, P., Hyla, J., Kuzdro, J., Tobała, B. (2019) Halloysite-LDH heterostructured materials: performance in removal of selected anions from aqueous solutions. W: EUROCLAY 2019 [Dokument elektroniczny] : International Conference on Clay Science and Technology: July 2019, Paris :book of abstracts, 428.

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