

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.

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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.

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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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Reviewed articles

Rybka, K., **Matusik, J.**, Marzec, M. (2022) Mg/Al and Mg/Fe layered double hydroxides derived from magnesite and chemicals: The effect of adsorbent features and anions chemistry on their removal efficiency. *Journal of Cleaner Production*, 332, 130084.

Matusik, J., Koteja-Kunecka, A., Maziarz, P., Kunecka, A. (2022) Styrene removal by surfactant-modified smectite group minerals: efficiency and factors affecting adsorption/desorption. *Chemical Engineering Journal*, 428, 13084, 1-10.

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Rybka, K., **Matusik, J.**, Kuligiewicz, A., Leiviskä, T., Cempura G. (2021) Surface chemistry and structure evaluation of Mg/Al and Mg/Fe LDH derived from magnesite and dolomite in comparison to LDH obtained from chemicals. *Applied Surface Science*, 538, 147923.

Matusik, J., Deng, Y. (2020) Fumonisin B1 interaction with Mg–Al and Mg–Fe layered double hydroxides: removal efficiency and mechanisms. *Materials*, 13 (19), 4344.

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Conference materials

Rybka, K., **Matusik, J.** (2021) The efficiency and stability of Mg/Al and Mg/Fe as mineral-based adsorbents for the removal of Cr(VI) and Se(VI) from wastewaters. W: ICWPT 2021 [Dokument elektroniczny], 6th international conference on Water pollution and treatment : 14–16 July 2021, Frankfurt, Germany, [Hong Kong : Chemical, Biological & Environmental Engineering Society], [2021].

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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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