

Publications

Reviewed articles

Rybka K., Matusik J., Kuligiewicz A., Leivskä T., Cempura G. (2020) 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, 1-11

Matusik J., Hyla J., Maziarz P., **Rybka K.**, Leivskä T. (2019) Performance of Halloysite-Mg/Al LDH Materials for Aqueous As(V) and Cr(VI) Removal. *Materials* 12(29), 3569

Matusik J., **Rybka K.** (2019) Removal of Chromates and Sulphates by Mg/Fe LDH and Heterostructured LDH/Halloysite Materials: Efficiency, Selectivity, and Stability of Adsorbents in Single- and Multi-Element Systems. *Materials* 12(9), 1373

Rybka, K., Suwała, K., Maziarz, P., Matusik, J. (2017) Efficiency of Pb(II) and Mo(VI) removal by kaolinite impregnated with zero-valent iron particles. *Mineralogia / Mineralogical Society of Poland* 48, no. 1-4, s. 71-86.

Conference materials

Rybka K., Matusik J. (2019) Characterization of hydrotalcite/pyroaurite-like anion adsorbents derived from magnesite and dolomite. *Sorbenty mineralne 2019 : surowce, energetyka, ochrona środowiska, nowoczesne technologie*. 16–17.09.2019, Jerzmanowice, Poland / *red. nauk. Tomasz Bajda*. — Kraków : *Wydawnictwo Naukowe AKAPIT*, 2019. — ISBN: 978-83-65955-37-1. — S. 57–58

Rybka K., Matusik J. (2019) The effect of M(II)/M(III) molar ratio on the LDH structure derived from chemicals and minerals: a spectroscopic study using FTIR, Raman and XPS. *ECMS 2019 European Conference on Mineralogy and Spectroscopy* : [September 11–13, 2019, Prague, Czech Republic] : book of abstracts.

Matusik J., **Rybka K.**, Maziarz P., Hyla J., Kuzdro J., Toboła B. (2019) Halloysite-LDH heterostructured materials: performance in removal of selected anions from aqueous solutions. *EUROCLAY 2019 international conference on Clay science and technology*, 1-5 July 2019, Paris : book of abstracts. [*France : s.n.*], [2019]. — S. 428.

Rybka K., Matusik J. (2019) Physico-chemical studies of Mg/Fe and Mg/Al Layered Double Hydroxides obtained via transformation of minerals . *EUROCLAY 2019 international conference on Clay science and technology* : 1-5 July 2019, Paris : book of abstracts. — [*France : s.n.*], [2019]. — S. 540.

Rybka K., Matusik J. (2019) Mg/Al LDH formation via transformation of minerals through the AlCl₃ hydrolysis. *XX International Conference of Young Geologists: 03-05.04.2019*, Herl'any, Slovakia, Bratislava : The Publishing House of the Comenius University, 2019 ISBN: 978-80-223-4705-1 ; e-ISBN: 978-80-223-4704-4. — S. 97–98. — Bibliogr. s. 98

Rybka K., Matusik J. (2018) Acid Mine Drainage treatment by zerovalent iron particles: the effect of kaolinitesupport on ions removal efficiency. *XIX International Conference of Young Geologists, 05-07.04.2018*, Herl'any, Slovakia. *Mente et Malleo* ; ISSN 2454-096X. — 2018 [vol.] 2018, s. 23.

Gajewska K., Bałaga K., Maziarz P., **Rybka K.** (2018) One-pot synthesis of magnetic composites based on synthetic hydrotalcite. *XXV Meeting of the Petrology Group of the Mineralogical Society of Poland: session: "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 *Mineralogia – Special Papers* ; ISSN 1899-8518 vol. 48, s. 48

Rybka, K., Matusik, J. (2018) Mg–Fe LDH derived from magnesite and hematite and its affinity towards sulphates. 9th Mid-European Clay Conference: Zagreb, September 17–21, 2018, ISBN 978-953-6923-39-7, s. 94.

Rybka, K., Matusik, J. (2018) Synthesis of Mg–Fe layered double hydroxides from minerals and their sorption affinity towards Cr(VI). III international conference on Applied mineralogy & advanced materials: MMS 2018 Minerals & Materials Sciences : bridging materials & minerals sciences: Bari, Italy, July, 24–26, 2018. ISSN 2464-9147, s. 77.

Rybka, K., Matusik, J. (2018) The quality of Mg–Fe layered double hydroxide derived from magnesite and hematite. 55th annual meeting The Clay Minerals Society, University of Illinois at Urbana-Champaign (Illinois, USA) June 11-14, 2018, s. 204.

Matusik, J., **Rybka, K.,** Kuzdro, J., Tobała, B. (2018) Halloysite-based hybrid composites with synthetic LDH and their affinity to remove anions. 55th annual meeting The Clay Minerals Society, University of Illinois at Urbana-Champaign (Illinois, USA) June 11-14, 2018, s. 169.

Kraków, 27.09.2019