

Publications

Conference materials

2021

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].

Rybka, K., Matusik, J., Dziwiątka, K., Giera, A. (2021) Mineral-based adsorbents for wastewater treatment – the kinetics study of Cr(VI) and Se(VI) adsorption in the presence of sulphates and nitrates by Mg/Al and Mg/Fe layered double hydroxides. W: Sustainable Minerals'21 [Dokument elektroniczny] : June 21-24, 2021, online, [Falmouth : MEI Conferences].

Sordyl J., Wudarska A., Babicka A., Rybka K., Manecki M., Bajda T. (2021) Phosphate substitution in synthetic schultenite PbHAsO₄: vibrational spectroscopic study. Goldschmidt 2021, 04-09.07.2021m online.

2020

Rybka, M., Matusik, J. (2020) Efficiency of selected anions removal by Mg/Al and Mg/Fe LDH obtained with different sources of Mg. XXIst International Conference of Young Geologists HERL'ANY 2020: Niedzica, Poland, 05-07.11.2020: abstract book & introduction to the Pieniny Klippen Belt / eds. Peter Kiss, [et al.]. Wydawnictwo Mineralogiczne MINERALPRESS, 2020, ISBN: 978-83-933330-2-8, s. 1-2.

Koteja, A., Maziarz, P., Solińska, A., Matusik, J. (2020) Removal of anionic contaminants from wastewaters using functionalized mineral adsorbent in a fixed-bed column installation. W: Industrial Water 2020: 17-19 November 2020, virtual conference: book of abstracts. Frankfurt am Main: Dechema, s. 137–138.

Koteja, A., Maziarz, P., Solińska, A., Matusik, J. (2020) Granulated and functionalized halloysite for anions adsorption. 57th Annual Meeting of the Clay Minerals Society (virtual conference), 18-23.10.2020. Book of abstracts.

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.

Maziarz, P., Matusik, J. (2020) Kaolin particles coated with zero-valent iron – competitive adsorption of Pb/Cd, regeneration and reuse possibilities. 57th Annual Meeting of the Clay Minerals Society (virtual conference), 18-23.10.2020. Book of abstracts.

Rybka, K., Matusik, J. (2020) Mg/Al LDH obtained via transformation of minerals for the removal of selected elements from acidic and alkaline wastewaters. 57th Annual Meeting of the Clay Minerals Society (virtual conference), 18-23.10.2020. Book of abstracts.

Rybka, K., Matusik, J. (2020) Different approaches to transformation of selected minerals into layered double hydroxides. 57th Annual Meeting of the Clay Minerals Society (virtual conference), 18-23.10.2020. Book of abstracts.

Hałabuza J., Rybka K., (2020) Ca-Al LDH obtained via transformation of limestone powder and aluminium can for Cr(VI) removal in single-element system and in the presence of competitive anion. XXIst International Conference of Young Geologists Herl'any, 05-07.11.2020, online.

Walczyk A., Michalik A., Napruszewska B.D., Kryściak-Czerwenka J., Karcz R., Duraczyńska D., Socha R.P., Olejniczak Z., Wójcik-Bania M., Bahranowski K., Serwicka E. M. (2020) Physico-chemical characterization of desilicated sepiolite. LII Polish Annual Conference on Catalysis: 25–27.11.2020, Kraków, red. U. Filek; Instytut Katalizy i Fizykochemii Powierzchni im. Jerzego Habera PAN, [et al.]. Kraków: I KiFP PAN, 2020. ISBN: 978-83-60514-32-0, s. 102.

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Koteja, A., Matusik, J. (2019) Photoactive hybrid nanomaterials derived from layered minerals. W: ICYG 2019: International Conference of Young Geologists: April 3-5 2019, Herl'any, 45-47.

Rybka, K., Matusik, J. (2019) Mg/Al LDH formation via transformation of minerals through the $AlCl_3$ hydrolysis. W: ICYG 2019: International Conference of Young Geologists: April 3-5 2019, Herl'any, 97-98.

Maziarz, P., Matusik, J. (2019) Enhanced removal efficiency of Pb(II) and Cd(II) by kaolin impregnated with zerovalent iron particles. W: ICYG 2019: International Conference of Young Geologists: April 3-5 2019, Herl'any, 64-66.

Maziarz, P., Matusik, J. (2019) Halloysite-supported iron oxide particles for As(V) removal: adsorption mechanism investigation by the XPS and Mössbauer spectroscopy. W: ECMS 2019 [Dokument elektroniczny]: European Conference on Mineralogy and Spectroscopy:[September 11–13, 2019, Prague, Czech Republic], 29.

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. W: ECMS 2019 [Dokument elektroniczny]: European Conference on Mineralogy and Spectroscopy:[September 11–13, 2019, Prague, Czech Republic], 36.

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., Tobiła, 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.

Maziarz, P., Matusik, J. (2019) Effectiveness of As(V) removal from wastewaters by layered double hydroxides impregnated with Fe oxide. W: EUROCLAY 2019 [Dokument elektroniczny]: International Conference on Clay Science and Technology: July 2019, Paris :book of abstracts, 430.

Rybka, K., Matusik, J. (2019) Characterization of hydrotalcite/pyroaurite-like anion adsorbents derived from magnesite and dolomite. W: Sorbenty mineralne 2019: surowce, energetyka, ochrona środowiska, nowoczesne technologie. [abstrakty z konferencji: 16–17 września 2019, Jerzmanowice] / red. nauk. Tomasz Bajda. — Kraków: Wydawnictwo Naukowe AKAPIT, 2019. — ISBN: 978-83-65955-37-1, 57–58.

Maziarz, P., Matusik, J. (2019) Enhanced sulphate removal by precipitation and adsorption using $\text{Ca}(\text{OH})_2$ and synthetic layered double hydroxide: acid mine drainage case study. W: Sorbenty mineralne 2019: surowce, energetyka, ochrona środowiska, nowoczesne technologie. [abstrakty z konferencji: 16–17 września 2019, Jerzmanowice] / red. nauk. Tomasz Bajda. — Kraków: Wydawnictwo Naukowe AKAPIT, 2019. — ISBN: 978-83-65955-37-1, 48-49.

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Gołdyn R., Jedliński J., Grosseau-Poussard J. L., Dąbek J., Prażuch J, Michalski A., Rosiński M., Ziabka M., Wójcik-Bania M., Nocuń M. (2019) The effect of hafnium additions on residual stresses in scales growing at 1150°C in air on Pulse-Plasma-Sintered B-NiAl. Corrosion 2019: 12th international scientific corrosion conference : 27–29.05.2019, Warszawa, Poland. s. 22-23

Wójcik-Bania M., Stochmal E. (2019) Redukcja barwników organicznych przy użyciu nanocząstek srebra osadzonych na sieciach polisiloksanowych - Reduction of organic dyes using silver nanoparticles deposited on polysiloxane networks. W: Sorbenty mineralne 2019 : surowce, energetyka, ochrona środowiska, nowoczesne technologie / red. nauk. Tomasz Bajda. — Kraków : Wydawnictwo Naukowe AKAPIT - ISBN: 978-83-65955-37, s. 83–84.

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Koteja, A., Matusik, J. (2018) Photoresponsive behavior of α -zirconium phosphate functionalized with azobenzenes. 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. 45.

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Maziarz, P., Matusik, J. (2018) Maghemite particles supported on halloysite as magnetically responsive composites for efficient As(V) removal. 55th annual meeting The Clay Minerals Society, University of Illinois at Urbana-Champaign (Illinois, USA) June 11-14, 2018, s. 170.

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2017

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.

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