

## Publications

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### *Reviewed articles*

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Walczyk A., Karcz R., Kryściak-Czerwenka J., Napruszewska B. D., Duraczyńska D., Michalik A., Olejniczak Z., **Tomczyk A.**, Klimek A., Bahranowski K., Serwicka E. M. (2020) Influence of dry milling on phase transformation of sepiolite upon alkali activation: implications for textural, catalytic and sorptive properties. *Materials (ISSN 1996-1944)*, **13** (18), 3936.

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Mikoda B., Potysz A., Gruszecka-Kosowska A., Kmiecik E., **Tomczyk A.** (2020) Spent sulfuric acid plant catalyst: valuable resource of vanadium or risky residue? Process comparison for environmental implications. *Environmental Science and Pollution Research (ISSN 0944-1344)*, **25** (31), 31520-31534.

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Mikoda B., Gruszecka-Kosowska A., Klimek A., **Tomczyk A.** (2018) Air pollution control and flue gas desulfurization residues from Polish copper smelting facility as adsorbents of Pb(II) and Cu(II) from aqueous solutions. *Environmental Science and Pollution Research (ISSN 0944-1344)*, **25** (31), 31520-31534.

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Górniak K., Szydlak T., Gawel A., Klimek A., **Tomczyk A.**, Motyka J., Bahranowski K. (2017) Bentonite from the Central Slovakia Volcanic Field – a prospective raw material for Polish industry. *Mineralogia / Mineralogical Society of Poland (ISSN 1899-8291)*, **48**, no. 1-4, 23-38.

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Górniak K., Szydlak T., Gawel A., Klimek A., **Tomczyk A.**, Motyka J., Bahranowski K. (2017) Smectite-, silica- and zeolites-bearing raw materials (Hliník and Hronom bentonite, Slovakia) – a new approach using integrated petrographic and mineralogical studies. *Applied Clay Science (ISSN 0169-1317)*, **141**, 180–191.

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Górniak K., Szydlak T., Gawel A., Klimek A., **Tomczyk A.**, Sulikowski B., Olejniczak Z., Motyka J., Serwicka E. M., Bahranowski K. (2016) Commercial bentonite from the Kopernica deposit (Tertiary, Slovakia): a petrographic and mineralogical approach. *Clay Minerals - Journal of the European Clay Groups (ISSN 0009-8558)*, **51** (no. 1), 97-122.

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Gondek K., Mierzwa-Hersztek M., Smreczak B., Baran A., Kopeć M., Mróz T., Janowski P., Bajda T., **Tomczyk A.** (2016) Content of PAHs, activities of  $\gamma$ -radionuclides and ecotoxicological assessment in biochars. *Polish Journal of Chemical Technology (ISSN 1509-8117)*, **18**, 4, 27-35.

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Rzepa G., Pieczara G., Gawel A., **Tomczyk A.**, Zalecki R. (2016) The influence of silicate on transformation pathways of synthetic 2-line ferrihydrite. *Journal of Thermal Analysis and Calorimetry (ISSN 0368-4466)*, **125**, 407–421

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*Conference materials*


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Bahranowski K., Klimek A., Gawel A., **Tomczyk A.**, Serwicka E. M., (2019) Pillared montmorillonites as carbon dioxide nanosorbents W: NanoOstrava 2019 : 6<sup>th</sup> Nanomaterials and nanotechnology meeting : May 13–16, 2019, Ostrava : [book of abstracts] / VŠB – Technical University of Ostrava. Nanotechnology Centre. — Ostrava : Vydavatelství VŠB – TU Ostrava, 2019. — ISBN: 978-80-248-4290-5. — S. 40.

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Bahranowski K., Klimek A., Gawel A., **Tomczyk A.**, Serwicka E. M., (2019) Modyfikowane bentonity z Kopernicy jako sorbenty ditlenku węgla — [Modified bentonites from Kopernica as carbon dioxide sorbent]. 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. — S. 13–14.

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Machowski G., Pstrucha A., Pstrucha E., Górniak K., **Tomczyk A.** (2019) Evaluating seal potential of the chalk-type cap rocks from the Węglówka Oil Field, Outer Carpathians, Poland. W: Paratethys petroleum systems: between Central Europe and the Caspian Region : 26–27 March 2019, Vienna, Austria : book of abstracts. AAPG European Regional Conference. — S. P-120.

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Mikoda B., Potysz A., **Tomczyk A.** (2019) W: ICCE 2019 17<sup>th</sup> International Conference on Chemistry and the Environment : 16–20 June 2019, Thessaloniki : conference proceedings. — S. 909–911.

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Klimek A., Gawel A., **Tomczyk A.**, Bahranowski K., Serwicka E. M. (2016) Sorption of carbon dioxide on Ti-, Zr- and [Ti,Zr]-pillared montmorillonites. W: MECC 2016: 8<sup>th</sup> Mid-European Clay Conference : July 4–8, 2016, Košice, Slovakia : book of abstracts / ed. Jana Valúchová — Košice : EQUILIBRIA, s.r.o., 2016. — ISBN: 978-80-972288-0-4. — S. 125. — Bibliogr. s. 125

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Krzyżanowski A., **Tomczyk A.**, Zarębska K., Baran P., Czuma N. (2015) Characterization of selected properties of areogels synthesized by lyophilization method. W: ISSHAC-9 : Surface Heterogeneity Effects in Adsorption and Catalysis on Solids : ninth international symposium : [17 – 22 July 2015], Poland, Wrocław : proceedings. — Lublin : [s.n.], 2015. — ISBN: 978-83-7784-669-8. — S. 202–203. — Bibliogr. s. 203

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