

Publications

Reviewed articles

Jędras A., Matusik, J., Dhanaraman E., Fu Y., Cempura G. (2024) Tuning the Structural and Electronic Properties of Zn–Cr LDH/GCN Heterostructure for Enhanced Photodegradation of Estrone in UV and Visible Light. *Langmuir* 2024, 40, 34, 18163–18175.

Staszal K., **Jędras A.**, Skalny M., Dziwiątka K., Urbański K., Sordyl J., Rybka K., Manecki M. (2023) New synthetic [LREE (LREE = La, Ce, Pr, Sm), Pb]-phosphate phases. *Mineralogia*, vol.54, no.1, 2023, pp.58-68.

Jędras A., Matusik J., Rybka K. (2022) Impregnation of smectite with layered double hydroxides of different chemistry for simultaneous removal of Cr(III) and acid blue dye. *Journal of Water Process Engineering*, 50, 103252, 1–12.

Conference materials

Jędras A., Matusik, J., Dhanaraman E., Fu Y., Cempura G. (2024) Synthesis challenges of LDH/GCN heterostructures for the photodegradation of estrone. 11th Mid-European Clay Conference, Pilsen, Czech Republic, 15–20 September, 2024.

Dziwiątka K., Matusik J., Kuc J., **Jędras A.**, Bartusiak A. (2024) Exploring the mechanisms and pathways of zearalenone mycotoxin photodegradation by kaolinite nanotubes-based composites. American Chemical Society Fall meeting 2024, Denver, CO, USA, 18–22 August 2024.

Jędras A., Matusik, J., Dhanaraman E., Fu Y., Cempura G. (2024) LDH/GCN heterostructures for enhanced photodegradation of estrone: exploring synthesis impact on the material properties. American Chemical Society Fall meeting 2024, Denver, CO, USA, 18–22 August 2024.

Jędras A., Matusik, J., Dhanaraman E., Fu Y., Cempura G. (2024) Zn-Cr LDH/g-C₃N₄ heterostructure for estrone photodegradation: what is the effect of synthesis methods on materials' properties and degradation efficiency? EGU General Assembly 2024, Vienna, Austria, 14–19 April 2024, EGU24-9600, <https://doi.org/10.5194/egusphere-egu24-9600>.

Jędras A., Matusik J. (2023) Layered double hydroxides supported by clay minerals as photocatalysts for visible light-driven degradation of organic pollutants. 60th Annual Meeting, The Clay Minerals Society: 20-25 May 2023, Austin, Texas, USA.

Staszal, K., **Jędras, A.**, Skalny, M., Dziwiątka, K., Urbański, K., Sordyl, J., Rybka, K., Majka, J., and Manecki, M. (2023) Impact of Pb²⁺ presence on precipitation of REE phosphates (analogs of rhabdophane) from aqueous solutions. EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-8801, <https://doi.org/10.5194/egusphere-egu23-8801>.

Jędras, A., Matusik, J., Rybka, K. (2022) Heterocoagulated materials based on smectite and layered double hydroxides of different chemistry with dual adsorption properties. W: MECC'20/22: 10th Jubilee Mid-European Clay Conference, Kliczków, Poland, September 11-15, 2022: book of abstracts/eds. Górniak, K., Szydłak, T., Sęk, M., Kraków, Wydawnictwo Naukowe „Akapit”, ISBN: 978-83-65955-60-9, 48.

Jędras, A., Matusik, J., Rybka, K. (2022) Impregnation of smectite with layered double hydroxides of different chemistry for simultaneous removal of Cr(III) and acid blue dye. W: ICC 2022, AIPEA – XVII International Clay Conference: 25–29 July 2022, Istanbul, Turkey: scientific research abstracts/eds. Kadir, S. et al.; The Clay Science Society, The Clay Mineral Society, 216.

Sordyl, J., Rybka, K., Dziewiątka, K., **Jędras, A.**, Skalny, M., Staszal, K., Tomczak, A., Urbański, K., and Manecki, M. (2022) The influence of the synthesis procedure on the morphology of REE-enriched Pb-apatite (pyromorphite). EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022, EGU22-7905, <https://doi.org/10.5194/egusphere-egu22-7905>.

Kraków, 7th January 2025