

Publications

Conference materials

2024

Dziwiątka, K., Matusik, J., Kuc, J. (2024) Photodegradation of zearalenone with kaolinite nanotubes-based photocatalysts: mechanisms and pathways, in: 11th MECC 2024, Pilsen, Czech Republic, September 15–20, 2024.

Dziwiątka, K., Matusik, J., Herber, M., Hill, E.H., Cempura, G. (2024) Nanotubular photocatalysts based on kaolin group minerals for zearalenone degradation, in: 11th MECC 2024, Pilsen, Czech Republic, September 15–20, 2024.

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

Dziwiątka, K., Matusik, J., Herber, M., Hill, E.H., Cempura, G. (2024) Sustainable kaolinite-supported photoactive materials for enhanced photodegradation of zearalenone: in-depth assessment of physical and electrochemical properties, in: ACS Fall 2024: Elevating Chemistry, Denver, August 18-22, CO, USA.

Jędras, A., Matusik, J., Dhanaraman, E., Fu, Y.-P., Cempura, G. (2024) LDH/GCN heterostructures for enhanced photodegradation of estrone: exploring synthesis impact on the material properties, in: ACS Fall 2024: Elevating Chemistry, Denver, August 18-22, CO, USA.

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, in: ACS Fall 2024: Elevating Chemistry, Denver, August 18-22, CO, USA.

Dziwiątka, K., Matusik, J., Cempura, G. (2024) Efficient photodegradation of zearalenone: Unraveling the potential of photocatalysts based on kaolin group minerals: in: EGU General Assembly 2024, Vienna, Austria, 14-19 April 2024, pp. 1–2. <https://doi.org/10.5194/egusphere-egu24-9623>.

Jędras, A., Matusik, J., Dhanaraman, E., Fu, Y.-P., 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?: in: EGU General Assembly 2024, Vienna, Austria, 14-19 April 2024, pp. 1–2. <https://doi.org/10.5194/egusphere-egu24-9600>.

Bajda, T., Grela, A., Kuc, J., Klimek, A., **Matusik, J.**, Pamuła, J., Franus, W. (2024) Zeolite materials for the removal of pharmaceuticals from aqueous medium, in: Frontiers in Membrane Technology: 7th IWA-rmtc 2024: [7th International Water Association (IWA) Regional Membrane Technology Conference: 18–21 June 2024, Palermo, Italy]. pp. 42–47. https://doi.org/10.1007/978-3-031-63357-7_7.

2023

Bajda, T., Andrunik, M., Franus, W., Grela, A., Klimek, A., Kuc, J., Matusik, J., Muir, B., Kumar, A.S.K., Skalny, M., Sobczyk, M., Świstun, E. (2023) The use of fly ash transformation products as sorbents to remove contaminants from water and wastewater, in: WASTES 2023, 6th International Conference, Wastes, Solutions, Treatments, Opportunities: September 6–8, 2023, Coimbra, Portugal: Book of Proceedings. pp. 18–20.

Bajda, T., Grela, A., Kuc, J., Klimek, A., Matusik, J., Pamuła, J., Franus, W. (2023) Cost-effective sorption materials for the removal of pharmaceuticals from aqueous medium, in: ECO STP 2023, 6th International Conference on Eco-technologies for Wastewater Treatment, Girona, Spain, 26th–29th June 2023, Conference Proceedings. pp. 216.

Sobczyk, M., Muir, B., Skalny, M., Panek, R., Matusik, J., Bajda, T. (2023) Aqueous BTEX removal onto the fly-ash based zeolites, in: IUPAC CHAINS 2023, Connecting Chemical Worlds : 20-25 August 2023, Hague, Netherlands, Book of Abstracts. pp. 536.

Jędras, A., Matusik, J. (2023) Visible light-induced degradation of dyes by layered double hydroxides supported on clay minerals: the synergistic effect of adsorption-photocatalysis, in: EUROCLAY 2023 International Conference of European Clay Groups Association, Bari, Italy, 24-27 July 2023, pp. 126.

Dziewiątka, K., Matusik, J. (2023) TiO₂-loaded nanotubular materials based on kaolin group minerals as spatially confined nanoreactors for photodegradation of deoxynivalenol, in: EUROCLAY 2023 International Conference of European Clay Groups Association, Bari, Italy, 24-27 July 2023, pp. 71.

Matusik, J., Dziewiątka, K. (2023) Kaolinite-based nanotubes - current state of knowledge on synthesis, properties and applications, in: EUROCLAY 2023 International Conference of European Clay Groups Association, Bari, Italy, 24-27 July 2023, pp. 174.

Matusik, J., Lis, K., Rybka, K. (2023) Highly efficient styrene removal by smectites impregnated with Ni, Cu and Ag transition metals, in: EUROCLAY 2023 International Conference of European Clay Groups Association, Bari, Italy, 24-27 July 2023, pp. 175.

Matusik, J., Dziewiątka, K., Cempura, G. (2023) Unraveling the structure-property relationship of adsorbents and photocatalysts derived from 2D layered materials of natural and synthetic origin, in: SCANDEM 2023, 73rd Annual Meeting, June 12-15, Uppsala, Sweden : Book of Abstracts. pp. 64–65.

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Jędras, A., Matusik, J. (2023) Layered double hydroxides supported by clay minerals as photocatalysts for visible light-driven degradation of organic pollutants, in: 60th Annual Meeting the Clay Minerals Society, Austin, May 20-25, 2023: Program and Abstracts. pp. 63.

Dziewiątka, K., Matusik, J. (2023) A comparative photocatalytic study of TiO₂-loaded nanotubes derived from kaolin group minerals: evaluation of degradation efficiency using dyes as model pollutants, in: 60th Annual Meeting the Clay Minerals Society, Austin, May 20-25, 2023: Program and Abstracts. pp. 47.

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Rybka, K., Matusik, J., Dziewiątka, K., Giera, A., Marzec, M. (2022) The characteristics of V(V) and P(V) adsorption by LDH derived from magnesite: kinetics, pH influence and competition with common anions. 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, 213.

Matusik, J., Koteja-Kunecka, A., Maziarz, P., Kunecka, A. (2022) Surfactant intercalated smectite group minerals: the effect of host mineral and surfactant type on the styrene adsorption/desorption. 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, 86.

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Rybka, K., Matusik, J., Slaný, M. (2022) LDH-containing materials derived from minerals: from technical aspects of synthesis to the application in As(V) removal. 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, 192.

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.

Dziewiątka, K., Matusik, J., Rybka, K. (2022) Hydrotalcite-zeolite hetero-coagulated materials: towards materials with dual adsorption properties. 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, 217.

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., Szydlak, T., Sęk, M., Kraków, Wydawnictwo Naukowe „Akapit”, ISBN: 978-83-65955-60-9, 48.

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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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