

Publikacje i wystąpienia pracowników Sieć Badawcza Łukasiewicz – Instytutu Nowych Syntez Chemicznych w 2021 r.

Publikacje artykułów w czasopismach naukowych i w recenzowanych materiałach z konferencji międzynarodowych (wykaz Ministerstwa Edukacji i Nauki z dnia 9 lutego 2021 r.):

1. Grajzer Magdalena, Wiatrak Benita, Gebarowski Tomasz, Matkowski Adam, Grajeta Halina, **Rój Edward**, Kulma Anna, Prescha Anna: *Chemistry, oxidative stability and bioactivity of oil extracted from Rosa rugosa (Thunb.) seeds by supercritical carbon dioxide*, Food Chemistry, t.335, 127649, 2021
2. González-Gil-R., **Kowalik Paweł**, **Antoniak-Jurak Katarzyna**, Lewalska-Graczyk A C.Herrera M.Á.Larrubia, Pieta-P., Nowakowski R., Pieta I.S., Alemany L.J.: *The role of Lewis acidic vanadium centers in DME steam reforming over V-Ni catalysts*, Chemical Engineering Journal, t.423, 129996, 2021
3. Garbarino Gabriella, **Kowalik Paweł**, Riani Paola, **Antoniak-Jurak Katarzyna**, Pieta Piotr, Lewalska-Graczyk Agnieszka, Lisowski Wojciech, Nowakowski Robert, Busca Guido, S. Pieta Izabela: *Improvement of Ni/Al₂O₃ Catalysts for Low-Temperature CO₂ Methanation by Vanadium and Calcium Oxide Addition*, Industrial & Engineering Chemistry Research, t.60, nr 18, s. 6554–6564, 2021
4. **Antoniak-Jurak Katarzyna**, **Kowalik Paweł**, **Próchniak Wiesław**, **Bicki Robert**, Słowik Grzegorz: *Heterostructural Mixed Oxides Prepared via ZnAlLa LDH or ex-ZnAl LDH Precursors—Effect of La Content and Its Incorporation Route*, Materials 2021, t.14, nr 8, 2082, 2021
5. **Antoniak-Jurak Katarzyna**, **Kowalik Paweł**, **Próchniak Wiesław**, **Bicki Robert**, **Michalska Kamila**, Słowik Grzegorz: *Ecofriendly K-decorated ZnO/Zn(Al,La)₂O₄ catalyst for hydrogen production – Effect of heterostructure on catalyst activity at steam-lean process gas*, Fuel, t.302, nr 16, 121067, 15 październik 2021
6. **Bicki Robert**, **Antoniak-Jurak Katarzyna**, **Michalska Kamila**, **Franczyk Ewelina**, **Konkol Marcin**, **Kowalik Paweł**, Pańczyk Monika, Ryczkowski Janusz, Słowik Grzegorz, Borowiecki Tadeusz: *The effect of La₂O₃ and CeO₂ modifiers on properties of Ni–Al catalysts for LNG prereforming*, International Journal of Hydrogen Energy, t.46, nr 21, s. 11664-11676, 2021
7. **Stec Magdalena***, **Synowiec Piotr Maria***: *Intensification of precipitation process by means of ultrasound-assisted methods and the selection of reactor type*, Chemical Engineering and Processing: Process Intensification, t.163, 108379, 2021
8. **Kostrzewa Dorota**, **Dobrzyńska-Inger Agnieszka**, **Reszczyński Rafał**: *Pilot scale supercritical CO₂ extraction of carotenoids from sweet paprika (Capsicum annuum L.): Influence of particle size and moisture content of plant material*, LWT - Food Science and Technology, t.136 część 2, 110345, 2021
9. Malm Anna, Grzegorz Agnieszka, Biernasiuk Anna, Baj Tomasz, **Rój Edward**, **Tyśkiewicz Katarzyna**, **Dębczak Agnieszka**, Stolarski Mariusz Jerzy, Krzyżaniak Michał, Olba-Zięty Ewelina: *Could supercritical extracts from the aerial parts of Helianthus salicifolius A. Dietr and Helianthus tuberosus L. be regarded as potential raw materials for biocidal purposes*, Agriculture–Basel, t.11, nr 1, 10, 2021
10. **Saramok Magdalena**, **Szymaszek Agnieszka**, **Inger Marek**, **Antoniak-Jurak Katarzyna**, Samojedan Bogdan, Motak Monika: *Modified Zeolite Catalyst for a NO_x Selective Catalytic Reduction Process in Nitric Acid Plants*, Catalysts, t.11, nr 4, 450, 2021

11. Pieta Izabela S., Lewalska-Graczyk Agnieszka, **Kowalik Paweł, Antoniak-Jurak Katarzyna**, Krysa Mikołaj, Sroka-Bartnicka Anna, Gajek Arkadiusz, Lisowski Wojciech, Mrdenovic Dusan, Pieta Piotr, Nowakowski Robert, Lew Agata, Serwicka Ewa M.: *CO₂ Hydrogenation to Methane over Ni-Catalysts: The Effect of Support and Vanadia Promoting*, *Catalysts*, t.11, nr 4, 433, 2021
12. Klimek Katarzyna, **Tyśkiewicz Katarzyna**, Miazga-Karska Małgorzata, **Dębczak Agnieszka, Rój Edward**, Ginalska Grażyna: *Bioactive Compounds Obtained from Polish "Marynka" Hop Variety Using Efficient Two-Step Supercritical Fluid Extraction and Comparison of Their Antibacterial, Cytotoxic, and Anti-Proliferative Activities In Vitro*, *Molecules* t.26, nr 8, 2366, 2021
13. **Wrona Olga**, Rafińska Katarzyna, Krakowska-Sieprawska Aneta, Buszewski Bogusław: *Comparative Studies of Selected Criteria Enabling Optimization of the Extraction of Polar Biologically Active Compounds from Alfalfa with Supercritical Carbon Dioxide*, *Molecules*, t.26, nr 10, 2994, 2021
14. Buszewski Bogusław, Walczak-Skierska Justyna, **Wrona Olga**, Wojtczak Izabela: *Linear solvation energy relationships in the determination of phospholipids by supercritical fluid chromatography*, *The Journal of Supercritical Fluids*, t.173, 105206, 2021
15. Iwanicki Wojciech, Musiałek Ireneusz, Osowski Karol, **Olszak Artur**, Kęsy Zbigniew, Kęsy Andrzej: *Experimental Research Concerning Hydrodynamic Clutches Controlled by Increasing Distance Between Rotors*, *Advances in Science and Technology Research Journal*, t.15, nr 1, s.218–229, 2021
16. Iuliano Anna, Fabiszewska Agata Kozik Katarzyna, Rzepna Magdalena, **Ostrowska Justyna**, Dębowski Maciej, Plichta Andrzej: *Effect of Electron-Beam Radiation and Other Sterilization Techniques on Structural, Mechanical and Microbiological Properties of Thermoplastic Starch Blend*, *Journal of Polymers and the Environment*, t.29, s.1489–1504, 2021
17. Patkowski Wojciech, **Kowalik Paweł, Antoniak-Jurak Katarzyna**, Zybert Magdalena, Ronduda Hubert, Mierzwa Bogusław, **Próchniak Wiesław**, Raróg-Pilecka Wioletta: *On the Effect of Flash Calcination Method on the Characteristics of Cobalt Catalysts for Ammonia Synthesis Process*, *European Journal of Inorganic Chemistry* t.2021, nr 15, 1518-1529, 2021
18. Artyszak Arkadiusz, **Kondracka Malgorzata**, Gozdowski Mariusz, Siuda Alicja, Litwińczuk-Bis Magda: *Impact of Foliar Application of Various Forms of Silicon on the Chemical Composition of Sugar Beet Plants*, *Sugar-Tech*, t. 23, s. 546–559, 2021