

Lista publikacji pracowników Instytutu Nauk Chemicznych w 2021 r.:

1. M. Radlik, W. Juszczyk, W. Raróg-Pilecka, M. Zybert, Z. Karpiński,
„Chlorodifluoromethane hydrode-chlorination on carbon-supported Pd-Pt catalysts.
Beneficial effect of catalyst oxidation”,
Catalysts 11, 525 (2021), <https://doi.org/10.3390/catal11050525>
2. A. Listkowski, N. Masiera, M. Kijak, R. Luboradzki, B. Leśniewska, J. Waluk;
„Controlling Emissive Properties by Intramolecular Hydrogen Bonds: Alkyl and Aryl
meso-Substituted Porphycenes”;
Chem. Eur. J. 2021, 27, 6324 – 6333; DOI: 10.1002/chem.202005440;
3. A. Bednarz, I. Kamińska, A. Jamrozik, K. Zielonka, A. Listkowski, J. Waluk;
„Substituent screening effect on single-molecule photostability: Comparison of three
differently substituted porphycenes”;
Methods Appl. Fluoresc. 2021, 9, 035004; DOI: 10.1088/2050-6120/abfcac;
4. B. Macherzyński, M. Wszelaka-Rylik, M. Włodarczyk-Makuła, D. Andrzejewska-
Górecka
“Removal of chemotherapeutic agents in an integrated process of coagulation and
sorption”
Desalination and Water Treatment, 232 (2021) 256–263
5. D. Andrzejewska-Górecka, B. Macherzyński, M. Wszelaka-Rylik
“Bioleaching of cadmium (Cd) and zinc (Zn) from the contaminated soil using bacteria
from wastewater sludge”
Desalination and Water Treatment 232 (2021) 372–379
6. M. Czaplicka, A. A. Kowalska, A. B. Nowicka, D. Kurzydłowski, Z. Gronkiewicz, A.
Machulak, W. Kukwa and A. Kamińska,
Anal. Chim. Acta, 2021, 1177, 338784.
7. D. Kurzydłowski, M. A. Kuzovnikov and M. Tkacz,
RSC Adv., 2021, 11, 14316–14322.
8. D. Kurzydłowski, T. Chumak, J. Rogoża and A. Listkowski,
Molecules, 2021, 26, 3802.
9. D. Kurzydłowski, A. Gajek and Z. Mazej,
Phys. Rev. Mater., 2021, 5, 113602.
10. Tsymbal L. V., Rodik R. V., Danylyuk O., Suwinska K., Lipkowski J., Kalchenko V. I.,
Lampeka Y. D. “Supramolecular interactions in the heteroarylimine-substituted
calix[4]arenes: the formation of cyclic dodecanuclear palladium aggregates.”
Supramol. Chem. (2021) 33, 129–142.

11. Barboza C. A., Morawski O., Olas J., Gawrys P., Banasiewicz M., Suwinska K., Shova S., Kozankiewicz B., Sobolewski A. L.
„Unravelling the ambiguity of the emission pattern of donor-acceptor salicylaldehydes.”
J. Mol. Liq. (2021) 343, 117532. DOI: 10.1016/j.molliq.2021.117532.
12. Empel A., Bak A., Kozik V., Latocha M., Cizek A., Jampilek J., Suwinska K., Sochanik A., Zieba A.
“Towards property profiling: SYNTHESIS and SAR probing of new tetracyclic diazaphenothiazine analogues.”
Int. J. Mol. Sci. (2021) 22, 12826. DOI: 10.3390/ijms222312826.
13. M. Radlik, W. Juszczyk, E. Kemnitz, Z. Karpiński
„Pd/alumina catalysts for beneficial transformation of harmful freon R-22”,
Catalysts (2021) 11, 1178 <https://doi.org/10.3390/catal11101178>.
14. Piotr Bocian, Krzysztof Biernat, Anna Matuszewska, Piyush Sindhu Sharma, Paweł Bukrejewski, Krzysztof R. Noworyta
"Electrochemical impedance spectroscopy studies of gasoline oxidative stability – Attempt to devise new gasolines chemical stability index”
Fuel (2021) 288, 119620 /<https://doi.org/10.1016/j.fuel.2020.119620>
15. Anna Matuszewska, Adam Hańderek, Maciej Paczuski, Krzysztof Biernat
“Hydrocarbon Fractions from Thermolysis of Waste Plastics as Components of Engine Fuels.”
Energies (2021) 14, 7245 / <https://doi.org/10.3390/en14217245>
16. Marian Włodzimierz Sułek, Wiesław Hreczuch, Jacek Przepiórka, Jolanta Janiszewska, Katarzyna Kurzepa
“Washing liquids based on surfactants with sterical hindrance”
Przemysł Chemiczny, 100/1, 2021, s.1000 – 1003
17. Iwona Flis-Kabulska, Arkadiusz Gajek, Janusz Flis
“Understanding the Enhancement of Electrocatalytic Activity toward Hydrogen Evolution in Alkaline Water Splitting by Anodically Formed Oxides on Ni and C-containing Ni”
ChemElectroChem 8(17) (2021) 3371-3378 DOI: 10.1002/celec.202100723
18. Tsymbal L. V., Rodik R. V., Danylyuk O., Suwinska K., Lipkowski J., Kalchenko V. I., Lampeka Y. D.
“Supramolecular interactions in the heteroarylimine-substituted calix[4]arenes: the formation of cyclic dodecanuclear palladium aggregates.”
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J. Mol. Liq. (2021). **343**, 117532 DOI: 10.1016/j.molliq.2021.117532
20. Empel A., Bak A., Kozik V., Latocha M., Cizek A., Jampilek J., Suwinska K., Sochanik A., Zieba A.
 "Towards property profiling: SYNTHESIS and SAR probing of new tetracyclic diazaphenothiazine analogues."
Int. J. Mol. Sci. (2021). **22**, 12826. DOI: 10.3390/ijms222312826
21. Ramezanpour, A; Karami, K. ; Kharaziha, M; Zakariazadeh, M; Lipkowski, J; Shahpiri, A; Azizi, N; Namazian, M.
 “A mononuclear PdII complex with Naphcon; crystal structure, experimental and computational studies of the interaction with DNA/BSA and evaluation of anticancer activity.”
POLYHEDRON (2021) DOI: 10.1016/j.poly.2021.115333
22. Lipkowski J., Schneider H.
 “Non-covalent interactions in clathrate complexes.”
J.Coord.Chem. (2021) DOI: 10.1080/00958972.2021.1967336
23. Lach, P., Cieplak, M., Noworyta, K. R., Pieta, P., Lisowski, W., Kalecki, J., Chitta, R., D'Souza, F., Kutner, W., and Sharma, P. S.,
 "Self-reporting molecularly imprinted polymer with the covalently immobilized ferrocene redox probe for selective electrochemical sensing of *p*-synephrine."
Sens. Actuators, B **2021**, *344*, 130276 <https://doi.org/10.1016/j.snb.2021.130276>
24. Joanna Buczynska, Agnieszka Gajewska, Aleksander Gorski, Barbara Golec, Krzysztof Nawara, Renata Rybakiewicz and Jacek Waluk
 „Synthesis and Photostability of Cyclooctatetraene-Substituted Free Base Porphyrins”
Chemistry 2021, *3*, 104–115. <https://doi.org/10.3390/chemistry3010008>
25. Bartosz Ambrozy Gren, Pawel Dabrowski-Tumanski, Wanda Niemyska and Joanna Ida Sulkowska
 “Lasso Proteins—Unifying Cysteine Knots and Miniproteins”
Polymers 2021, *13*, 3988. <https://doi.org/10.3390/polym13223988>
26. Agnese Barbensi, Naya Yerolemou, Oliver Vipond, Barbara I. Mahler, Pawel Dabrowski-Tumanski and Dimos Goundaroulis
 “A Topological Selection of Folding Pathways from Native States of Knotted Proteins”
Symmetry 2021, *13*, 1670. <https://doi.org/10.3390/sym13091670>

27. M.Sacha, M.Blaz, P.Byrski, P.Dabrowski-Tumanski, M.Chrominski, R.Loska, P.Wlodarczyk-Pruszyński, S.Jastrzebski
“Molecule Edit Graph Attention Network: Modeling Chemical Reactions as Sequences of Graph Edits”
J.Chem. Inf. Model. 2021, 61, 7, 3273–3284; DOI 10.1021/acs.jcim.1c00537
28. Marzena Wyskocka-Gajda, Łukasz Przypis, Monika Olesiejuk, Tomasz Krawczyk, Anna Kuznik, Krzysztof Nawara, Masafumi Minoshima, Fuminori Sugihara, Kazuya Kikuchi, Nikodem Kuznik
„A step towards gadolinium-free bioresponsive MRI contrast agent”
European Journal of Medicinal Chemistry, (2021) 211, 113086
10.1016/j.ejmech.2020.113086