

Lista publikacji pracowników Instytutu Nauk Chemicznych w 2023 r.:

Artykuły z czasopism

1. Ayerdurai Viknasvarri, Cieplak Maciej, **Kutner Włodzimierz**: Molecularly imprinted polymer-based electrochemical sensors for food contaminants determination, *Trends in Analytical Chemistry*, Elsevier BV, vol. 158, 2023, Numer artykułu: 116830, DOI:10.1016/j.trac.2022.116830, 200 punktów, IF(9,801)
2. Berus Sylwia M., Nowicka Ariadna B., Wieruszewska Julia, Niciński Krzysztof, Kowalska Aneta A., Szymborski Tomasz R., Drózd Izabela, Borowiec Maciej, **Waluk Jacek**, Michota-Kamińska Agnieszka: SERS Signature of SARS-CoV-2 in Saliva and Nasopharyngeal Swabs: Towards Perspective COVID-19 Point-of-Care Diagnostics, *International Journal of Molecular Sciences*, MDPI, vol. 24, nr 11, 2023, Numer artykułu: 9706, DOI:10.3390/ijms24119706, 140 punktów, IF(4,183)
3. Chodvadiya Darshil, **Dalsaniya Madhavi**, Som Narayan N., Chakraborty Brahmananda, **Kurzydłowski Dominik**, Kurzydłowski Krzysztof J., Jha Prafulla K.: Defects and doping engineered two-dimensional o-B2N2 for hydrogen evolution reaction catalyst: Insights from DFT simulation, *International Journal of Hydrogen Energy*, vol. 48, nr 13, 2023, s. 5138-5151, DOI:10.1016/j.ijhydene.2022.10.211, 140 punktów, IF(4,939)
4. Christ Andreas, Härtl Patrick, Seitz Manuel, Edelmann Tobias, Bode Matthias, **Waluk Jacek**, Leisegang Markus: Anisotropic coupling of individual vibrational modes to a Cu(110) substrate, *Physical Chemistry Chemical Physics*, RSC Publications, vol. 25, nr 35, 2023, s. 23894-23900, DOI:10.1039/d3cp02911e, 100 punktów, IF(3,43)
5. **Dąbrowski-Tumański Paweł**, Stasiak Andrzej: AlphaFold Blindness to Topological Barriers Affects Its Ability to Correctly Predict Proteins' Topology, *Molecules*, MDPI, vol. 28, nr 22, 2023, Numer artykułu: 7462, DOI:10.3390/molecules28227462, 140 punktów, IF(3,06)
6. **Flis-Kabulska Iwona**, Flis Janusz: Anodic Etching of Amorphous Ni81P19 Alloy in Hot Concentrated Chloride Solution for Enhanced Hydrogen Evolution in Alkaline Water Electrolysis, *ChemElectroChem*, vol. 10, nr 4, 2023, Numer artykułu: e202201036, DOI:10.1002/celec.202201036, 100 punktów, IF(4,154)
7. Gajewska Agnieszka, Mbakara Idaresit, **Waluk Jacek**: 2-nitro-7,12,17-tri-tert-butylporphycene: Spectroscopy, photophysics, and tautomerism, *Journal of Porphyrins and Phthalocyanines*, vol. 27, nr 1-4, 2023, s. 563-568, DOI:10.1142/s1088424623500360, 40 punktów, IF(1,816)
8. Gańczarczyk Roman, **Rybakiewicz-Sekita Renata**, Gryszel Maciej, Drapała Jakub, Zagórska Małgorzata, Głowacki Eric: Polymeric Benzothiadiazole,

Benzooxadiazole, and Benzoselenadiazole Photocathodes for Photocatalytic Oxygen Reduction to Hydrogen Peroxide, *Advanced Materials Interfaces*, Wiley - VCH Verlag GmbH & Co. KGaA, vol. 10, nr 21, 2023, Numer artykułu: 2300270, DOI:10.1002/admi.202300270, 100 punktów, IF(6,389)

9. **Golec Barbara**, Buczyńska Joanna, **Nawara Krzysztof**, Górski Aleksander, **Waluk Jacek**: Photodegradation of free base and zinc porphyrins in the presence and absence of oxygen, *Photochemical & Photobiological Sciences*, 2023, DOI:10.1007/s43630-023-00482-6, 100 punktów, IF(2,831)

10. Jaekel Simon, Durant Emile, Schied Monika, Persson Mats, Ostapko Jakub, Kijak Michał, **Waluk Jacek**, Grill Leonhard: Tautomerization of single asymmetric oxahemiporphycene molecules on Cu(111), *Physical Chemistry Chemical Physics*, RSC Publications, vol. 25 (2022), nr 2, 2023, s. 1096-1104, DOI:10.1039/d2cp04746b, 100 punktów, IF(3,43)

11. Kamecka Anna, Kapturkiewicz Andrzej, Wójcik Patryk, **Suwińska Kinga**, Masternak Joanna: Synthesis and Characterization of Platinum(IV) Complexes Containing 1-Phenyl-1H-pyrazole and α -Diimine Ligands, *European Journal of Inorganic Chemistry*, John Wiley & Sons, 2023, Numer artykułu: e202300438, DOI:10.1002/ejic.202300438, 70 punktów, IF(2,529)

12. Kamecka Anna, Kapturkiewicz Andrzej, Shova Sergiu, **Suwińska Kinga**: The influence of structural isomerism on luminescence properties of [Re(CO)₂(dppv)(pbi)] complexes containing cis-1,2-bis(diphenylphosphino)-ethene and 2-(2-pyridyl)benzimidazole ligands, *Structural Chemistry*, 2023, DOI:10.1007/s11224-023-02177-1, 70 punktów, IF(2,081)

13. Kapłon Katarzyna, Frynas Sławomir, Mirosław Barbara, **Lipkowski Janusz**, Demchuk Oleg: An Efficient Asymmetric Cross-Coupling Reaction in Aqueous Media Mediated by Chiral Chelating Mono Phosphane Atropisomeric Biaryl Ligand, *Catalysts*, vol. 13, nr 2, 2023, Numer artykułu: 353, DOI:10.3390/catal13020353, 100 punktów, IF(3,444)

14. Kisiel-Nawrot Ewa, Pindjakova Dominika, Latocha Małgorzata, Bąk Andrzej, Kozik Violetta, **Suwińska Kinga**, Cizek Alois, Jampilek Josef, Zięba Andrzej: Towards Anticancer and Antibacterial Agents: Design and Synthesis of 1,2,3-Triazol-quinobenzothiazine Derivatives, *International Journal of Molecular Sciences*, MDPI, vol. 24, nr 17, 2023, Numer artykułu: 13250, DOI:10.3390/ijms241713250, 140 punktów, IF(4,183)

15. Kubiczek Jakub, Derej Wojciech, Hadasik Bartłomiej, **Matuszewska Anna**: Chemical recycling of plastic waste as a mean to implement the circular economy model in the European Union, *Journal of Cleaner Production*, Elsevier BV, vol. 406, 2023, Numer artykułu: 136951, DOI:10.1016/j.jclepro.2023.136951, 140 punktów, IF(7,246)

16. **Macherzyński Bartłomiej**, **Wszelaka-Rylik Małgorzata**, Włodarczyk-Makuła Maria, Osiak Małgorzata, Pietrzak Adam, Bień Beata, **Poniatowska**

Agnieszka: Comparative efficiency of phosphorus removal from supernatants by coagulation process, *Desalination and Water Treatment*, Taylor & Francis, vol. 301, 2023, 209–215, DOI:10.5004/dwt.2023.29654, 100 punktów, IF(0,854)

17. Maczugowska Paulina, Zawadzka Paulina, Hałagan Krzysztof, Pastorczak Marcin, **Sadlej Joanna**, Kozanecki Marcin: Water clusters in liquid organic matrices of different polarity, *Journal of Molecular Liquids*, Elsevier BV, vol. 378, 2023, s. 121580, DOI:10.1016/j.molliq.2023.121580, 100 punktów, IF(5,065)

18. Mbakara Idaresit, Gajewska Agnieszka, **Nawara Krzysztof, Waluk Jacek:** Instability of 9-aminoporphycenes, *Journal of Porphyrins and Phthalocyanines*, vol. 27, nr 7-10, 2023, s. 1457-1464, DOI:10.1142/s1088424623501122, 40 punktów, IF(1,816)

19. Patel Paras, Patel Saurav, Chodvadiya Darshil, Dalsaniya Madhavi, **Kurzydłowski Dominik**, Kurzydłowski Krzysztof J., Jha Prafulla K.: A density functional theory study on the assessment of α -CN and α -CP monolayers as anode material in Li-ion batteries, *Journal of Energy Storage*, Elsevier BV, vol. 71, nr 1, 2023, Numer artykułu: 108074, DOI:10.1016/j.est.2023.108074, 100 punktów, IF(3,762)

20. Patel Paras, Patel Saurav, Chodvadiya Darshil, Dalsaniya Madhavi, **Kurzydłowski Dominik**, Jha Prafulla K.: Two-Dimensional α -SiX (X = N, P) Monolayers as Efficient Anode Material for Li-Ion Batteries: A First-Principles Study, *ACS Applied Nano Materials*, vol. 6, nr 3, 2023, s. 2103-2115, DOI:10.1021/acsanm.2c05090, 20 punktów

21. **Waluk Jacek:** Coupling between tautomerism and radiationless deactivation in porphycenes, *Pure and Applied Chemistry*, vol. 95, nr 8, 2023, s. 873-877, DOI:10.1515/pac-2022-1107, 140 punktów, IF(1,919)

Rozdziały z monografii

22. **Nawara Krzysztof:** Quinine, W: Reference Module in Biomedical Sciences / Nawara Krzysztof (red.), 2023, Elsevier, ISBN 9780128012383, DOI:10.1016/b978-0-12-824315-2.00574-1, 5 punktów