

List of publications of the teaching staff of the Department of Materials Science, Nanotechnology and Engineering Physics (2022-2023)

Список публикации ППС кафедры МНИФ за 2022-2023 гг.

№ п / п	Наименование научного труда	Издательство, журнал	К-во стр.	Язык	Соавторы
1	2	3	4	5	6
Опубликованные в высокорейтинговых изданиях с ненулевым импакт-фактором, отраженные в базе данных Scopus или Web of science (наименование журнала, страницы, номер издания, дата издания)					
1	Surface Modifications of CuO Doped Carbonaceous Nanosorbents and their CO ₂ Sorption Properties	Eurasian Chemico-Technological Journal, 2023, 25(1),	pp. 33–38	English	<u>Ilyin, Yu.V.</u> , <u>Kudaibergenov, K.K.</u> , <u>Sharipkhanov, S.D.</u> , <u>Zhaulybayev, A.A.</u> , <u>Atamanov, M.K.</u>
2	Biopolymers synthesis and application	Materials Today: Proceedings, 2023		English	<u>Kunarbekova, M.</u> , <u>Shynzhyrbai, K.</u> , <u>Mataev, M.</u> , <u>Zhantikeyev, S.U.</u> , <u>Ybyraiymkul, D.</u>
3	Preparation of Composites of Antibacterial Materials Based on Bacterial Cellulose and Silver Nanoparticles for Wound Healing	International Journal of Nanoscience and Nanotechnology this 2022, 18(2),	pp. 123–133	English	<u>Rakhimova, B.</u> , <u>Kudaibergenov, K.</u> , <u>Sassykova, L.</u> , <u>Aknazarov, S.</u> , <u>Tulepov, M.</u>
4	Palladium–Nickel Supported and Palladated Activated Diatomite as an Efficient Catalyst for Poly- α -olefins Hydrogenation	Catalysis Surveys from Asia, 2023, 27(3),	pp. 296–305	English	<u>Toshtay, K.</u> , <u>Auyezov, A.</u> , <u>Aubakirov, Y.</u> , <u>Sailaukhanuly, Y.</u> , <u>Nakan, U.</u> <u>Azat, S.</u>
5	Fusion-Assisted Hydrothermal Synthesis of Technogenic-Waste-Derived Zeolites and Nanocomposites: Synthesis, Characterization, and Mercury (II) Adsorption	International Journal of Molecular 2023, 24(14),	11317	English	<u>Suleimenova, M.</u> , <u>Zharylkan, S.</u> , <u>Mekenova, M.</u> , <u>Satayeva, A.</u> , <u>Tauanov, Z.</u> , <u>Azat, S.</u>
6	Modifying Natural Zeolites to Improve Heavy Metal Adsorption	Water (Switzerland), 2023, 15(12),	2215	English	<u>Kuldeyev, E.</u> , <u>Seitzhanova, M.</u> , <u>Tanirbergenova, S.</u> , <u>Nurlybaev, R.</u> , <u>Berndtsson, R.</u> , <u>Azat, S.</u>
7	Review of Slow Sand Filtration for Raw Water Treatment with Potential Application in Less-Developed Countries	Water (Switzerland), 2023, 15(11)	2007	English	<u>Abdiyev, K.</u> , <u>Azat, S.</u> , <u>Kuldeyev, E.</u> , <u>Kabdrakhmanova, A.</u> , <u>Sultakhan, S.</u>

8	Synthesis nanoparticles of SiO ₂ from rice husk and its industrial application Diversity and Applications of New Age	Nanoparticles, 2023,	pp. 176–200	English	<u>Azat, S., Zhantikeev, U., Askaruly, K., Tauanov, Z., Ybyraimkul, D.</u>
9	Propulsion Systems, Propellants, Green Propulsion Subsystems and their Applications: A Review	Eurasian Chemicotechnological Journal, 2023, 25(1)	pp. 3–19	English	<u>Remissa, I., Jabri, H., Hairch, Y., ...Azat, S., Amrousse, R.</u>
10	The electrochemical behavior of silica and activated carbon materials derived from the rice husk waste for li-ion cells	Diamond and Related Materials, 2023, 133	109759	English	<u>Askaruly, K., Korobeinyk, A.V., Azat, S., ...Tauanov, Z., Su, X.</u>
11	A facile synthesis of graphite-coated amorphous SiO ₂ from biosources as anode material for libs	Materials Today Communications, 2023, 34	105136	English	<u>Askaruly, K., Yeleuov, M., Taurbekov, A., ...Abdisattar, A., Daulbayev, C.</u>
12	Biopolymers synthesis and application	Materials Today: Proceedings, 2023		English	<u>Kunarbekova, M., Shynzhyrbai, K., Mataev, M., Zhantikeev, S.U., Ybyraimkul, D.</u>
13	Insight into the glycerol extraction from biodiesel using deep eutectic solvents	Journal of Molecular Modeling, 2023, 29(2),	54	English	<u>Sailau, Z., Serikkanov, A., Kemelbekova, A., ...Aldongarov, A., Toshtay, K.</u>
14	Insight into Perovskite Solar Cell Formation for Various Organohalides Perovskite Precursors in the Presence of Water at the Molecular Level	Journal of Nanomaterials, 2023, 2023,	6279023	English	<u>Zhantuarov, S., Kemelbekova, A., Shongalova, A., Chuchvaga, N., Almas, N.</u>
15	Self-Organization Effects of Thin ZnO Layers on the Surface of Porous Silicon by Formation of Energetically Stable Nanostructures	Materials, 2023, 16(2),	838	English	<u>Murzalinov, D., Kemelbekova, A., Seredavina, T., ...Moshnikov, V., Mukhamedshina, D.</u>
16	The Effect of pH Solution in the Sol–Gel Process on the Structure and Properties of Thin SnO ₂ Films	Processes, 2022, 10(6),	1116	English	<u>Murzalinov, D., Dmitriyeva, E., Lebedev, I., Fedosimova, A.I., Kemelbekova, A.</u>
17	Applications of Nanofiber Membranes in Microphysiological Systems Наноталшықты мембраналарды микрофизиологиялық жүйелерде қолдану	<u>Bulletin of the Karaganda University Chemistry Series</u> , 2022, 107(3),	pp. 56–66	English	<u>Kanabekova, P., Martin, A., Kemelbekova, A., Kulsharova, G.</u>
18	Paramagnetic Properties of Carbon Films	Coatings, 2023, 13(9),	1484	English	<u>Baitimbetova, B.A., Ryabikin, Y.A., Rakymetov, B.A., Serikkanov, A.S., Yelemessov, K.</u>

19	Increasing the photoluminescence intensity of silicon nitride by forming K and N radioactive centres	Journal of Physics: Conference Series, 2022, 2155(1), 012008		English	<u>Murzalinov, D.O., Shaikenova, A.A., Umirzakov, A.G., ...Dmitriyeva, Y.A., Rakymetov, B.A.</u>
20	Mathematical Modeling of the Corrosion Behavior of Austenitic Steels in Chloride-Containing Media During the Operation of Plate-Like Heat Exchangers	Eurasian Chemicotechnological Journal, 2022, 24(4),	pp. 295–301	English	<u>Narivs'kyi, O., Atchibayev, R., Kemelzhanova, A., Subbotin, S., Beisebayeva, A.</u>
21	Synthesis of Cenospheres from Ash and Their Application	Journal of Composites Science, 2023, 7(7),	276	English	<u>Tanirbergenova, S.K., Dinistanova, B.K., Zhylybayeva, N.K., ...Taju, K., Nazhipkyzy, M.</u>
22	Biomass-Derived Porous Carbon Materials for Li-Ion Battery	Nanomaterials, 2022, 12(20),	3710	English	<u>Nazhipkyzy, M., Maltay, A.B., Askaruly, K., ...Seitkazinova, A.R., Mansurov, Z.A.</u>
23	Advances of Biowaste-Derived Porous Carbon and Carbon–Manganese Dioxide Composite in Supercapacitors: A Review	Inorganics, 2022, 10(10),	160	English	<u>Zekenova, A., Nazhipkyzy, M., Li, W., ...Zhumanova, G., Zubova, O.</u>
24	Electrochemical Performance of Chemically Activated Carbons from Sawdust as Supercapacitor Electrodes	Nanomaterials, 2022, 12(19),	3391	English	<u>Nazhipkyzy, M., Yeleuov, M., Sultakhan, S.T., ...Assylkhanova, D.D., Nemkayeva, R.R.</u>
25	Effective separation of petroleum oil-water mixtures via flexible and reusable hydrophobic soot-coated melamine sponge Journal of Water Process	Engineering, 2022, 49,	103032	English	<u>Nazhipkyzy, M., Assylkhanova, D., Araylim, N., ...Özsin, G., Varol, E.A.</u>
26	The Use of Diatomite as a Catalyst Carrier for the Synthesis of Carbon Nanotubes	Nanomaterials, 2022, 12(11),	1817	English	<u>Nazhipkyzy, M., Nemkayeva, R.R., Nurgain, A., ...Bergeneva, N.S., Mamatova, G.U.</u>
27	Carbon Nanotubes Synthesized by CCVD Method using Diatomite and Shungite Minerals	Eurasian Chemicotechnological Journal, 2022, 24(1),	pp. 3–11	English	<u>Nazhipkyzy, M., Harris, P.J.F., Nurgain, A., Nemkayeva, R.R.</u>
28	Use of Vegetable Raw Materials as Electrode Materials for Li-Ion Batteries	Chemical Engineering Transactions, 2022, 95,	pp. 247–252	English	<u>Nazhipkyzy, M., Assylkhanova, D., Maltay, A., ...Issanbekova, A., Kudyarova, Z.</u>
29	Symmetrical Composite Supercapacitor Based on Activated Carbon and Cobalt Nanoparticles with High Cyclic	Energies 2023, 16(11)	4287	English	<u>Abdullin, K.A., Gabdullin, M.T., Kalkozova, Z.K., Nurbolat, S.T., Mirzaeian, M.</u>

	Stability and Current Load				
30	A Hybrid Supercapacitor from Nickel Cobalt Sulfide and Activated Carbon for Energy Storage Application	Physica Status Solidi - Rapid Research Letters, 2023		English	<u>Markhabayeva, A.A.</u> , <u>Anarova, A.S.</u> , <u>Abdullin, K.A.</u> , ... <u>Tulegenova, A.T.</u> , <u>Nuraje, N.</u>
31	Capacitive electrodes based on a combination of activated carbon and graphene	Physical Sciences and Technology, 2022, 9(2)	pp. 18–24	English	<u>Nurbolat, S.</u> , <u>Gabdullin, M.</u> , Kalkozova, Z. , <u>Mirzaeian, M.</u> , <u>Abdullin, K.</u>
32	Efficient Recovery Annealing of the Pseudocapacitive Electrode with a High Loading of Cobalt Oxide Nanoparticles for Hybrid Supercapacitor Applications	Nanomaterials, 2022, 12(20)	3669	English	<u>Abdullin, K.A.</u> , <u>Gabdullin, M.T.</u> , Kalkozova, Z.K. , <u>Nurbolat, S.T.</u> , <u>Mirzaeian, M.</u>