Форма 2.3.

Казахский Национальный Университет имени аль-Фараби

СПИСОК НАУЧНЫХ ТРУДОВ И ИЗОБРЕТЕНИЙ

магистра технических наук, кандидата на соискание степени PhD

Тұгелбай Сапарбек Батырбекұлы

No П/п	Название трудов	Рукопись или печатные	Наименование издательства, Журнала (№ год), № авторского свидетельства	Кол-во печатн. листов или стр	Фамилия соавторов работы
1	Scalable synthesis of AgX (Cl, Br, I, PO4) nanophotocatalysts for efficient visible- light degradation of persistent antibiotics from aqueous environments	Печ.	**Journal of Photochemistry & Photobiology, A: Chemistry. (IF-4.7 Q2)** https://doi.org/10.1016/j.jphotochem.2025.116748 Journal of Photochemistry & Photobiology, A: Chemistry 472 (2026) 116748	18	**Saparbek Tugelbay***, Valeriya Volobuyeva, Abylay Abilkhan, Batukhan Tatykayev
2	Enhanced photocatalytic antibacterial Ag3PO4/AgCl nanocomposites for water purification from organic and microbial contaminants	Печ.	**Journal of Environmental Chemical Engineering (IF-7.2, Q1)** https://doi.org/10.1016/j.jece.2025.118753 Journal of Environmental Chemical Engineering 13 (2025) 118753	26	**Saparbek Tugelbay,** Zhandos Shalabayev, Natalya Khan, Nurislam Mukhanbetzhanov, Ardak Jumagaziyeva, Fail Sultanov, Samat Kozhakhmetov, Almagul Kushugulova, Andrei V. Shevelkov, Gabor Mucsi, Ugilzhan Tatykayeva, Nurgul Daniyeva, Mukhambetkali Burkitbayev, Batukhan Tatykayev*
3	Ag3PO4-based composites as next-generation antibacterial nanomaterials: A review of light induced synergistic effects	Печ.	**Chemical Engineering Journal (IF-13.2, Q1)** https://doi.org/10.1016/j.cej.2025.167818 Chemical Engineering Journal 522 (2025) 167818	26	**Saparbek Tugelbay*,** Gani Yergaliuly, Abylay Abilkhan, Natalya Khan, Batukhan Tatykayev
4	Visible-light-responsive Ag3PO4-based photocatalysts for water treatment and wastewater remediation: Advances, challenges, and future directions	Печ.	**Journal of Environmental Chemical Engineering (IF-7.2, Q1)** https://doi.org/10.1016/j.jece.2025.120339 Journal of Environmental Chemical Engineering 13 (2025) 120339		**Saparbek Tugelbay*,** Baglan Bakbolat

5	The superiority of the photocatalytic and antibacterial performance of mechanochemically synthesized CdS nanoparticles over solvothermal-prepared ones	Печ.	**Semiconductor Science and Technology (IF-2.1, Q2)** https://doi.org/10.1088/1361-6641/ad2b08 Semicond. Sci. Technol. 39 (2024) 045006 (19pp)	20	Gairat Burashev, Batukhan Tatykayev, Matej Balá˘z, Natalya Khan, Ardak Jumagazieva, Zhanar Iskakbayeva, Anar Seysembekova, **Saparbek Tugelbay**, Nurshat Turgynbay, Almagul Niyazbayeva, Aleksandr Ilin, Mukhambetkali Burkitbayev and Zhandos Shalabayev
6	Sustainable Scalable Mechanochemical Synthesis of CdS/Bi2S3 Nanocomposites for Efficient Hydrogen Evolution	Печ.	**Nanomaterials (IF-4.3, Q1)** https://doi.org/10.3390/nano14221785 Nanomaterials 2024, 14, 1785.	18	Zhandos Shalabayev, Abylay Abilkhan, Natalya Khan, **Saparbek Tugelbay,** Anar Seisembekova, Batukhan Tatykayev and Matej Balaz*
7	All solid-state fabrication strategy of CdS@ZnS nanocomposites and their photocatalytic performance in water purification	Печ.	**International Journal of Biology and Chemistry** https://doi.org/10.26577/IJBCh2023v16i2a12 International Journal of Biology and Chemistry 16, № 2 (2023)	13	G. Burashev, B. Tatykayev, M. Baláž, N. Khan, A. Seysembekova, **S. Tugelbay,** N. Turgynbay, M. Burkitbayev, Zh. Shalabayev*
8	Advances in battery-grade nickel sulfate production	Печ.	Separation and Purification Technology; https://doi.org/10.1016/j.seppur.2025.135672 (IF-9, Q1)	15	Botagoz Amanyazova, Moldir Sailaukhanova, Indira Kurmanbayeva, Aruzhan Kylyshbayeva, **Saparbek Tugelbay**, Batukhan Tatykayev, Zhumabay Bakenov, Nurzhan Umirov
9	COMPARATIVE STUDY OF PHOTOCATALYTIC HYDROGEN EVOLUTION ON G-C_3N_4 DECORATED WITH NIS AND NIS_2 CO-CATALYSTS VIA ION EXCHANGE PRECIPITATION METHOD	Печ.	**Vestnik Universiteta Shakarima. Serija tehnicheskie nauki** https://doi.org/10.53360/2788-7995-2024-4(16)-44 Вестник Университета Шакарима. Серия технические науки. 2024;1(4(16)):346-355.	10	N. Maksut, B. Tatykayev, **S. Tugelbay**, A. Abilkhan, N. Khan*
10	Method of extraction of nickel and cobalt from copper-nickel sulfide ore concentrate	Патент	**Патент** на полезную модель № 9525, 2024/0672.2, 22.05.2024 06.09.2024	-	Bakenov Zhumabay Umirov Nurzhan Tatykayev Batukhan Amanyazova Botagoz **Tugelbay Saparbek** Kurmanbayeva Indira
11	Method for Producing of Lithium Iron Phosphate Precursor Using Copper-Nickel Sulfide Ores	Патент	**Патент** на полезную модель № 10134, 2024/1031.2, 26.08.2024, 31.01.2025	-	Bakenov Zhumabay Umirov Nurzhan Volobuyeva Valeriya Tatykayev Batukhan Amanyazova Botagoz

					Tugelbay Saparbek Kurmanbayeva Indira
12	Method for nickel and cobalt recovery from nickel sulfide concentrate by mechanical activation	Патент	**Патент** на полезную модель № 10134, 2024/1031.2, 26.08.2024, 31.01.2025	-	Bakenov Zhumabay Umirov Nurzhan Tatykayev Batukhan Amanyazova Botagoz **Tugelbay Saparbek** Kurmanbayeva Indira Kylyshbayeva Aruzhan Sailaukhanova Moldir
13	Multifunctional Nanocomposites Synthesized By Solid-Phase Method with High Photocatalytic, Antibacterial, and Fungicidal Activity	Печ.	**ECS Meeting Abstracts** DOI 10.1149/MA2024-01351996mtgabs Saparbek Tugelbay et al 2024 Meet. Abstr. MA2024-01 1996	1	**Saparbek Tugelbay***, Batukhan Tatykayev, Gabor Mucsi, Andrei Shevelkov, Zhandos Shalabayev, Natalya Khan and Mukhambetkali Burkitbayev
14	Enhancement of the photocatalytic activity of g-C3N4 via ball milling exfoliation	Печ.	**INESS**, 12th Int. Conf. on Nanomaterials & Adv. Energy Storage Systems	1	**Saparbek Tugelbay*,** Batukhan Tatykayev, Almagul Mentbayeva, and Zhandos Shalabayev
15	Magnesium Removal in Nickel Sulfide Flotation Concentrate by Mechanochemical Treatment	Печ.	**INESS**, 13th Int. Conf. on Nanomaterials & Adv. Energy Storage Systems	1	**Tugelbay S.***, Amanyazova B., Sailaukhanova M., Kylyshbayeva A., Umirov N., Tatykayev B., Bakenov Zh .
16	A Green Photocatalytic Strategy for Persistent Antibiotics: Mechanochemical Synthesis of AgX (Cl, Br, I, PO4) Nanomaterials for Nitrofurazone and Furagin Degradation	Печ.	**INESS**, 13th Int. Conf. on Nanomaterials & Adv. Energy Storage Systems	1	**Saparbek Tugelbay***, Valeriya Volobuyeva, Abylay Abilkhan, Batukhan Tatykayev
17	Қазақстандық никель сульфидті кендерінен литий иондыаккумуляторларына арналған никель сульфатын өндіру	Печ.	**Монография** **ISBN 978-601-382-157-3** **ӘӨЖ 669.25:622.785** **КБЖ 26.89** **Қ18**	155	Ж. Б. Бакенов, Н. Б. Умиров, Б. Б. Татыкаев, Б. Т. Аманязова, М. К. Калабаева, **С. Б. Түгелбай,** М. А. Сайлауханова

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