

MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE REPUBLIC OF KAZAKHSTAN
KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY NAMED AFTER K.I. SATPAYEV

List of Scientific Publications in International Peer-Reviewed Journals
Indexed in Scopus and Web of Science
Chepushtanova Tatyana Alexandrovna

Author Identifiers:

Scopus Author ID: 26325376800

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№	Title of the publication	Type of publication	Journal name, year of publication, DOI	The impact factor of the journal, quartile and field of science according to the Journal Citation Reports for the year of publication	The index in the database Web of Science Core Collection	CiteScore of the journal, percentile and field of science according to Scopus data for the year of publication	Full name of the authors (applicant underline)	The role of the applicant
1	Development of Technology for Processing Pyrite-Cobalt Concentrates to Obtain Pigments of the Composition Fe_2O_3 and Fe_3O_4	Paper	Metals, 2025, 15(8), 886, P. 38. DOI: 10.3390/met15080886	(2024) JIF 2.5 Metallurgy & metallurgical	(2024) SCIE	(2024) CiteScore 5.3 Metals and alloys – 78 % Percentile	Chepushtanova, T., Altmyshtbayeva, A., Merkiybayev, Y., Yespenova, Z., Mishra, B.	First author

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		Paper	Journal "Chemical Methodologies" Vol. 10(1), P. 75-111, 2026, ISSN: 2645-7776/Online ISSN: 2588-4344. (JCR); IF = 3.5, published date November 2025, https://doi.org/10.48309/chemm.2026.535012.1988	engineering - Q2	-	(2024) Cite Score 7.4, Percentile 80.	Tatyana Chepushtanova, Sultan Yulussov, Omirserik Baigengenov*, Alibek Khabiyev, Kanay Rysbekov, Norlin Nosbi, M. Barmenshinova, Nur Nabihah Yusof, Yerik Merkibayev, Ahmad Hosseini-Bandegharai.	First author
2	An innovative method for complex processing of black shale ores to produce uranium, vanadium, molybdenum, and rare earth concentrates							
3	Extraction of Copper from Pregnant Leach Solution (PLS) and Reduction of Crud Formation	Paper	Mineral Processing and Extractive Metallurgy Review An International Journal. 14.04. 2024. P. 1-13. https://doi.org/10.1080/08827508.2024.2340545 .	JIF 4.6 Metallurgy & metallurgical engineering - Q1	SCIE	CiteScore 12.2 General Chemistry - 89% Percentile	Chepushtanova, T. Yessirkegenov, M., Mamyrbayeva, K., Ata Akcil., Gaipov, T.	First author
4	The Testing Results of ACORGA, LIX Extractants and CR60 Crud Mitigation Reagent Influence during SX-EW Copper Extraction	Paper	Sustainability, P. 1-17., 2024 https://doi.org/10.3390/sul6177815	JIF 3.3 Environmental sciences - Q2	SSCI	CiteScore 7.7 Environmental Science - 86% Percentile	Chepushtanova, T. Yessirkegenov, M., Bochevskaya, Ye., Sharipova, A., Baigengenov, O., Merkibayev, Ye., Altmysbbaeva, A.,	First author

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5	Investigation of the sulfation-roasting-water leaching process for efficient recovery of nickel and cobalt from Kazakhstan's laterite ore	Paper	Canadian Metallurgical Quarterly. TAYLOR & FRANCIS LTD. – 2025. – C. 1-16. https://doi.org/10.1080/00084433.2025.2603070 ; https://www.tandfonline.com/doi/full/10.1080/00084433.2025.2603070	JIF 1.5, Metallurgy & metallurgical engineering – Q3	SCIE	CiteScore 2.0 Metallurgy & metallurgical engineering, 48 % Percentile	K. Mamyrbayeva, A. Kuandykova, T. Chepushtanova, Ye. Merkibayev, B. Mishra	Co-author
6	Research into the possibility of extracting nickel and cobalt from pyrite tailings using a combined method		Acta Metallurgica Slovaca, 2025, VOL. 31, NO. 4, 238-252 DOI: https://doi.org/10.36547/ams.31.4.2247	JIF Metallurgy & metallurgical engineering – Q3	ESCI	CiteScore 2.8, Metals and Alloys 52-й Percentile	K.K. Mamyrbayeva, A.N. Kuandykova, T.A. Chepushtanova, Y.S. Merkibayev, B. Mishra, A.B. Sultanbayeva	Co-author
7	Investigation of thermodynamic and kinetic regularities of asbestos waste leaching processes	Paper	Results in Engineering, 2024, Vol. 21, № 102000. DOI 10.1016/j.rineng.2024.102000	JIF 7.9 Engineering, multidisciplinary – Q1	ESCI	CiteScore 5.8 General Engineering– 82% Percentile	Baigzenzhov, O.S., Almyshbayeva, A.Z., Chepushtanova, T. Altaibayev, B.T., Dagubayeva, A.T.	Co-author
8	The Analysis of the ZnO/por-Si Hierarchical Surface by Studying Fractal Properties with High Accuracy and the Behavior of the	Paper	Processes, Vol. 12, 111. N 2024. № 2541. P. 1-25. DOI 10.3390/pr12112541	JIF 2.8 Engineering, chemical – Q2	SCIE	CiteScore 5.1 Chemical Engineering– 56 % Percentile	Seredavina, T., Zhapakov, R., Murzalinov, D., Spivak, Y., Ussipov, N.	Co-author

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	EPR Spectra Components in the Ordering of Structure								<u>Chepushtanova, T.</u> Bolsbay, A., Mamyrbayeva, K., Merkiybayev, Y., Moshnikov, V., Almyshbayeva, A., Tulegenov, A.	
9	Review on hydrometallurgical processing technology of lateritic nickel ore for the last 20 years in the world	Paper	Non-ferrous Metals, Russia, Vol 56/ Issue 1, 2072-0807 pp. 13–21. 2024. DOI 10.17580/nfm.2024.01.03.	JIF 1.3 Metallurgy & metallurgical engineering –Q3	ESCI	CiteScore 1.1 Metals and Alloys – 28 % Percentile	<u>Mamyrbayeva, K.K., Kuandykova, A.N., Chepushtanova, T Merkiybayev, Y.S.</u>	Co-author		
10	Investigations of the extraction of copper and crud-formation from a pregnant leached solution of the Almalay deposit	Paper	Non-ferrous Metals, 2023 (2), P. 11–19. DOI: 10.17580/nfm. 2023.01.02.	JIF 1.3 Metallurgy & metallurgical engineering –Q3	ESCI	CiteScore 1.5 Metals and Alloys – 41% Percentile	<u>Chepushtanova, T</u> Yessirkegenov, M.I., Mamyrbayeva, K.K., Merkiybayev, Y.S.	First author		
11	Technology of high-temperature sulfidizing roasting of oxidized lead-zinc ore in a fluidized bed furnace	Paper	Non-ferrous Metals, 2, 2023, P. 3–10. DOI: 10.17580/nfm.2023.01.01.	JIF 1.4 Metallurgy & metallurgical engineering –Q3	ESCI	CiteScore 1.5 Metals and Alloys – 41 % Percentile	<u>Chepushtanova, T</u> Merkiybayev, Y.S Baigengonov, O., Mishra, B.	First author		

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12	Processing of the Zinc-Lead-Bearing Flotation Middlings by Sulfidizing Roasting with Pyrrhotites Production by Predicted Properties	Paper	Non-ferrous Metals, № 2, 2022 г. DOI 10.17580/nfm.2022.02.03	JIF 1.5 Metallurgy & metallurgical engineering - Q3	ESCI	CiteScore 1.5 Metals and Alloys - 46 % Percentile	Chepushtanova, T. Merkibayev, Y.S. Mishra, B. Kuldeyev, I.E.	First author
13	Niobium (V) Recovery from leaching solution of titanium wastes: kinetic Studies	Paper	Metalurgija 61 (2022) 3-4, 793-796. ISSN 05435846.	JIF 0.6 Metallurgy & metallurgical engineering - Q4	ESCI	CiteScore 1.2 Metals and Alloys - 32% Percentile	Khabiev, A., Baigengonov, O., Korganbayeva, Zh., Chepushtanova, T. Toishybek, A., Orynbayev B.	Co- author
14	Distribution of niobium and vanadium in titanium tetrachloride production middlings	Paper	Tsvetnye Metally, 2022, 2022(8), с 55-60. DOI 10.17580/tsm.2022.08.07	-	-	CiteScore 1.0 Metals and Alloys - 28% Percentile	Sarsembekov, T.K., Chepushtanova, T.	Co- author
15	Uranium (VI) Recovery from Black Shale Leaching Solutions Using Ion Exchange: Kinetics and Equilibrium Studies	Paper	Minerals, Vol 10, 689, 18. P 1-15. 2020 DOI 10.3390/min10080689	JIF 2.264 Mineralogy - Q2	SCIE	CiteScore 3.1 Geotechnical Engineering and Engineering Geology - 66% Percentile	Baigengonov, O., Khabiyev, A., Mishra, B., Chepushtanova, T. Turan, MD., Akbarov, M.,	Co- author

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16	Sulphidation roasting as means to recover zinc from oxidised ores	Paper	Comptes rendus de l'Acad'emie bulgare des Sciences. Tome 71, No 8, 2018, P. 1116-1123., ISSN 13101331. DOI10.7546/CRABS.2018.08.14	JIF 0.321 Multidisciplinary sciences - Q4	SCIE	CiteScore 0. Multidisciplinary - 32 % Percentile	Merkibayev Y., Panayotova, M., Chepushtanova, T. Luganov V., Panayotov V.A.,	Co-author
17	Oxide powders production from iron chloride	Paper	CIS Iron and steel review. Vol. 15, pp. 2018, 28-32. DOI 10.17580/cisistr.2018.01.06.	-	-	CiteScore 2.5 Metals and Alloys - 73% Percentile	Motovilov, Y., Luganov V., Chepushtanova, T. Mishra, B.,	Co-author
18	Synthesis of sodium polysulphide for copper ore processing	Paper	Non-ferrous Metals. Vol. 43, 2.2017, pp. 3-8. DOI 10.17580/nfm.2017.02.01	-	-	CiteScore 0.7 Metals and Alloys - 35 % Percentile	Osserov T. B., Ketegenov T. A., Chepushtanova, T. Guseynova G. D.,	Co-author

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List of Scientific Publications
Chepushtanova Tatyana Alexandrovna

№	Title of the publication	Type of Publication	Publication Details	Number of pages	Co-authors
1	2	3	4	5	6
	Articles in publications recommended by the Committee for Quality Assurance in the Field of Science and Higher Education of the Ministry of Higher Education and Science of the Republic of Kazakhstan				
1	Thermodynamic Analysis of the Processes for the Production of Titanium Slag and Titanium Tetrachloride, (Paper)	Electronic	Bulletin of D. Serikbayev East Kazakhstan Technical University. Vol. 1, No. 4, December 2025, pp. 117-130. DOI: 10.51885/1561-4212.2025.4.117	13	T.K. Sarsembekov, E.S. Merkibaev, T.B. Yanko
2	Extraction of Niobium from Intermediate Products of Titanium Tetrachloride Production, (Paper)	Electronic	Bulletin of Shakarim University. Series: Technical Sciences. No. 3(19), 2025, pp. 604-612. DOI: 10.53360/2788-7995-2025-3(19)-67 ISSN: 3006-0524	9	T. Sarsembekov, E. Merkibaev, T. Yanko, A. Zolotov
3	Economic analysis of the processing of various titanium-containing raw materials to obtain titanium, vanadium, and niobium (Paper)	Electronic	Engineering Journal of Satbayev University. 147, 2025, Issue 1, P. 1-17, eISSN 2959-2348, https://doi.org/10.51301/ejsu.2025.i1.01	7	Sarsembekov, T.K. Merkibaev E.S.
4	Study of the Mineralization of Rare and Rare Earth Elements in Ilmenite Concentrate from the Satpayev Deposit of the East Kazakhstan Region, (Paper)	Electronic	Mining Journal of Kazakhstan. 8, 2025, P. 55-61, ISSN 2227-4766	7	Sarsembekov T.K., Merkibaev E.S., Yanko T.B.
5	Distribution of niobium during chlorine processing of various titanium-containing feedstocks, (Paper)	Electronic	Engineering Journal of Satbayev University. 147, 2025, Issue 4, P. 16-22, eISSN 2959-2348	7	Sarsembekov T.K., Merkibaev E.S., Yanko T.B.,

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6	Mechanism and technological results of sulfidation roasting of oxidized lead compounds (Paper)	Electronic	KOMPLEKSNOE ISPOLZOVANIE MINERALNOGO SYRA. VOL. 332 NO. 1 (2025), P.119-132. Published: April 16, 2024; https://doi.org/10.31643/2025/6445.11 , Q4, WoS.	14	Merkibayev Y.S., Mamrybayeva, K.K. Sarsymbekov, T.K. Mishra, B.
7	Development of a technology for the production of aluminum castings using 3d printing of models and lost-wax casting (Paper)	Electronic	KOMPLEKSNOE ISPOLZOVANIE MINERALNOGO SYRA. №2(337), 2026, ISSN-L 2616-6445, ISSN 2224-5243, DOI: 10.31643/2026/6445.22, publication date 20 of March 2025, P. 108-116.	9	Merkibayev Y.S., Berlibek A.M., Tolegenova A.K., Nugumarov Sh.T.
8	Review of methods for processing ore vanadium-containing raw materials (Paper)	Electronic	Engineering Journal of Satbayev University, 2024, 146(1), P. 15-22. https://doi.org/10.51301/ejsu.2024.i1.03	8	Yulusov, S.B., Baigenzhenov, O.S., Khabiyeu, A.T., Merkibayev Y.S., Mishra, B.
9	Development of an Enhanced Method for Copper Extraction from Sulfuric Acid Solutions, (Paper)	Electronic	KOMPLEKSNOE ISPOLZOVANIE MINERALNOGO SYRA. C. 99-109, Vol. 334 No. 3, Published: 2024-06-20, ISSN 2224-5243. Q4, WoS, https://doi.org/10.31643/2025/6445.32	11	Yessirkegenov, M.I. Nikoloski, A., Merkibayev Y.S., Altmyshebayeva A.Zh
10	Development of a process for the production of hard solid nanophers (Fe-Co) from complex black slate source (Paper)	Electronic	Mining Journal of Kazakhstan, № 9(233), 2024, P. 38-42.	5	Yulusov, S.B., Yespenova, J.M., Tulegenov A.S.

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11	Innovative Methods for Processing Copper Ores in Kazakhstan: An Integrated Approach to Improving the Efficiency of Valuable Component Recovery. (Paper)	Electronic	News of the National Academy of Sciences of the Republic of Kazakhstan. Series: Chemistry and Technology, (3), P. 124-136. (2024-10-01), https://doi.org/10.32014/2024.2518-1491.241 .	13	Kenzhaliyev, B., Koizhanova, A., Mukangaliyeva, A., Magomedov, D.
12	Studies of the extraction of nickel and cobalt from magnetic enrichment tailings	Electronic	Engineering Journal of Satbayev University Volume 146 (2024), Issue 5, P. 1-9, https://doi.org/10.51301/ejsu.2024.i5.01	9	Mamyrbayeva, K.K. Kuandykova, A.N. Merkiybayev Y.S., Brajendra M.
13	Testing of the optimum extractant for solvent-extraction of Almalay deposit copper (Paper)	Electronic	KOMPLEKSNOE ISPOLZOVANIE MINERALNOGO SYRA. Jan-mar 2023 (1), pp.43-49. Q4, WoS. DOI: 10.31643/2023/6445.06	7	Yessirkegenov, M.I., Mamyrbayeva, K. K., Merkiybayev, Y. S., Nikolsky, A.
14	Study of the Extraction Process of the Main Components of the Productive Solution (Copper, Iron, and Silica) from the Almalay Deposit (Paper)	Electronic	Karaganda Technical University Journal "University Works" № 1 (90), 2023, P. 23-29. DOI 10.52209/1609-1825_2023_1_23	7	Esirkegenov, M.I., Mamyrbayeva, K.K., Nikolski, A., Tulepbergenov, A.K.
15	The studying of pyrite and arsenopyrite specific surface and porosity at roasting condition (Paper)	Electronic	Mining Journal of Kazakhstan, № 4, 2023 r. P. 49-56.	8	Maratuly, D., Mamyrbayeva K.K. Brajendra M.
16	Flotation studies of the middling product of lead-zinc ores with preliminary sulfidizing roasting of oxidized lead and zinc compounds. (Paper)	Electronic	KOMPLEKSNOE ISPOLZOVANIE MINERALNOGO SYRA. № 4, P. 77-83, 2022, Q4. DOI 0.31643/2022/6445.43	7	Motovilov, I. Yu., Merkiybayev, Y. S., Polyakov K.V., Gostu S.

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17	Thermodynamic Justification of High-Temperature Sulfidation of Zinc Oxide, (Paper)	Electronic	Bulletin (Herald) of Satbayev University, №2, 2020 y, P. 762-769.	8	Merkibaev E.S., Luganov V.A., Guseynova G.D., Mishra B.
18	Establishment of Thermodynamic Conditions for the Roasting Process of Pyrite-Cobalt Concentrate, (Paper)	Electronic	"Bulletin of the National Academy of Engineering of the Republic of Kazakhstan", № 1, 2020 r. P. 82-88.	7	Luganov, V.A. Guseynova, G.D. Motovilov, I.Yu. Merkibaev, E.S.
19	Study of the Effect of Carbon on the Performance of Sulfidation of Gold-Arsenic Concentrate under Fluidized Bed Conditions, (Paper)	Electronic	Bulletin (Herald) of Satbayev University 6(136)/2019, P. 888-893, ISSN 1680-9211.	6	Luganov, V.A. Guseynova, G.D. Motovilov, I.Yu.
20	Extraction of nickel from asbestos wastes, (Paper)	Electronic	Bulletin (Herald) of Satbayev University № 3(121). P. 609-613. 2017.	5	Baigenzhenov, O.S., Luganov, V.A., Akbarov, M.S., Shakirova, D.T., Sarsembaeva, M. R.
21	Production of Iron Oxide Nanopowders by the Reduction of Iron Chlorides, (Paper)	Electronic	Industry of Kazakhstan. 1(100) 2017, P.78-81.	4	Luganov V.A., Motovilov I.Yu., Toktagulova A.
22	Study of the Leaching Process of Matte Obtained from Pyrite Concentrate Smelting, (Paper)	Electronic	Mining Journal of Kazakhstan, №11, 2016 y., P.29-32.	4	Motovilov I.Yu., Luganov V.A.,
Patents					
1	Method for the Solvent Extraction of Copper from Sulfuric Acid Solutions	Printed / Electronic	№ 37492 from 22.08.2025, Application from 2024/0449.1	-	Esirkegenov M.I., Manyrbaeva K.K., Merkibaev E.S.

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2	Patent for an Invention. Method for Processing Oxidized Lead-Zinc Ore.	Printed / Electronic	№ 36282 from 30.06.2023 y., 2022/0331.1 from 30.05.2022.	-	Merkibaev, E.S., Luganov. V.A.
3	Patent for an Invention. Method for Removing Arsenic and Carbon from Arsenopyrite-Carbon-Containing Concentrates.	Printed / Electronic	№ 35894 from 14.10.2022 y., 2021/0227.1		Luganov V.A., Guseynova G.D., Merkibaev E.S.
4	Processing oxidized lead-zinc ore.	Printed / Electronic	Derwent Primary Accession Number: 2024-C48647, indexed 2025-03-20. International Patent https://www.webofscience.com/wos/alldb/full-record/DIIDW:2024C48647	-	Merkibaev, E.S., Luganov. V.A.
5	Removing arsenic and carbon from arsenopyrite-carbon contents.	Printed / Electronic	Derwent Primary Accession Number: 2024-B08867, indexed 2025-03-20. International Patent https://www.webofscience.com/wos/alldb/full-record/DIIDW:2024B08867	-	Luganov V.A., Guseynova G.D., Merkibaev E.S.
6	Patent for an Invention. Method for Processing Oxidized Lead-Zinc Ore.	Printed / Electronic	№ 36282 от 30.06.2023 y., 2022/0331.1 from 30.05.2022.	-	Merkibaev, E.S., Luganov. V.A.
7	Utility Model Patent. Method for the Integrated Processing of Low-Grade Oxidized Nickel Ores with the Production of Iron Oxide Powders.	Printed / Electronic	№ 4572. from 2019/0921.2. Bulletin Number and Date № 52 - 27.12.2019	-	Luganov V.A., Motovilov I.Yu., Guseynova G.D.
Author's Certificate					
1	Development of a Method for Producing Nanopowders of (Fe-Co) Solid Solutions from Complex Black Shale Raw Materials	Electronic	№ 56806 от 15.04.2025		Yulusov S.B., Merkibaev E.S., Baygenzhenov O.S.

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Articles published in other scientific journals and publications					
1	Processing of pyrite concentrates with the extraction of non-ferrous metals: nickel and cobalt technology elaboration. (conference paper)	Electronic	Selected paper from 63-rd International Scientific Conference, October 23, 2020 of the University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria. // Peer-reviewed Journal Sustainable Extraction and Processing of Raw Materials (SEPRM). Volume 1, issue 1. p. 53-59	7	V.A. Lukanov, G. D. Guseynova, Y. Merkibayev, K.K. Mamyrbayeva, B. Mishra.
2	Development of a Hybrid Technology for Sulfidizing Roasting of Zinc- and Lead-Containing Processing Products, (Paper)	Printed / Electronic	«Mining Journal of Kazakhstan» № 10 - 2021 г., C. 26-33.	8	Merkibaev E.S., Motovilov I.Yu., Polyakov K.V.
International scientific and practical conferences					
1	Thermodynamic analysis sulfatizing roasting of stale nickel-cobalt-containing wastes from operating plants (Report)	Electronic	International Multidisciplinary Scientific Geoconference Surveying Geology and Mining Ecology Management SgemOpen source preview, 2024, 24(4.2), страницы 151-158. Q4, Percentile - 7.		Mamyrbayeva, K.K., Kuandykova, A., Chepushtanova, T.A
2	Biotechnologies application at arsenic-bearing materials processing, (Report)	Electronic	Selected paper from 63-rd International Scientific Conference, October 23, 2020, Sofia, Bulgaria, full-text paper. Peer-reviewed Journal Mining and geological science. Bulgaria. Volume 63. P. 69-75.	6	Lukanov, V.A., Guseynova, G. D. Mishra. B.,
3	Technology of sulfidizing-pyrrhotizing roasting of lead flotation tailings (Report/Paper)	Electronic	Selected paper from 63-rd International Scientific Conference, October 23, 2020, Sofia, Bulgaria, full-text paper Journal Mining and geological science. Volume 63. P. 31-37.	6	Motovilov, I.Y Merkibayev, Y. S Sarsenova, M. S. Sumedh. G.

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4	Development of technology for gold-arsenic-coal concentrates processing (Report)	Electronic	International Mineral processing and recycling conference, IMPRC Belgrade, Serbia, 8-10 May 2019. P.: 475-481.	7	Luganov V.A., Guseynova G.D., Mamyrbayeva K.K., Baigenzhenov O. S., Merkibayev E. S.
5	Combined technology of oxidized nickel ore processing (Report)	Electronic	28th International Mineral Processing Congress, September 2016, IMPC 2016. Quebec City. code 135047. ISBN 978-192687229-2.	12	Luganov V.A.; Motovilov I.U.; Guseynova G.D.
Monographs, Textbooks					
1	Monograph. Sustainable Development of Copper Hydrometallurgy – Principles and Technologies for Reducing Crud Formation during Copper Solvent Extraction	Printed / Electronic	ISBN 978-601-08-4140-6. P. 136., 2024 y.	136	Esirkegenov, M.I., Mamyrbayeva, K.K., Merkibaev. E.S.
2	Monograph. Processing of Oxidized, Resistant Zinc- and Lead-Containing Ores and Processing Products	Printed	ISBN 978-601-269-133-17, P.100, 2022 y.	100	Merkibaev. E.S.
3	Electronic Textbook in English. Fundamentals of metallurgical heat engineering.	Electronic	Almaty: KazNRTU named after K.I. Satpayev, 2022, p. 70.	70	-
4	Textbook in English. Special units of extractive metallurgy	Printed	Almaty: KazNRTU named after K.I. Satpayev, 2024, p. 70.	70	-

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