

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  
Web of Science Researcher ID: AAA-8602-2019  
ORCID: 0000-0002-6526-0044

| № | 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.,<br>Altmyshbayeva, A.,<br>Merkibayev, Y.,<br>Yespenova, Z.,<br>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, <a href="https://doi.org/10.48309/chemm.2026.535012.1988">https://doi.org/10.48309/chemm.2026.535012.1988</a> | engineering - Q2                                       | -    | (2024)<br>Cite Score 7.4,<br>Percentile 80.                | Tatyana Chepushtanova,<br>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. <a href="https://doi.org/10.1080/08827508.2024.2340545">https://doi.org/10.1080/08827508.2024.2340545</a> .                                                    | JIF 4.6<br>Metallurgy & metallurgical engineering - Q1 | SCIE | CiteScore 12.2<br>General Chemistry - 89%<br>Percentile    | Chepushtanova, T.<br>Yessirkegenov, M.,<br>Mamyrbayeva, K.,<br>Ata Akcil.,<br>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<br><a href="https://doi.org/10.3390/sul6177815">https://doi.org/10.3390/sul6177815</a>                                                                                                                                              | JIF 3.3<br>Environmental sciences - Q2                 | SSCI | CiteScore 7.7<br>Environmental Science - 86%<br>Percentile | Chepushtanova, T.<br>Yessirkegenov, M.,<br>Bochevskaya, Ye.,<br>Sharipova, A.,<br>Baigengenov, O.,<br>Merkibayev, Ye.,<br>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.<br>TAYLOR & FRANCIS LTD. – 2025. – C. 1-16.<br><a href="https://doi.org/10.1080/00084433.2025.2603070">https://doi.org/10.1080/00084433.2025.2603070</a> ;<br><a href="https://www.tandfonline.com/doi/full/10.1080/00084433.2025.2603070">https://www.tandfonline.com/doi/full/10.1080/00084433.2025.2603070</a> | 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<br>DOI: <a href="https://doi.org/10.36547/am.s.31.4.2247">https://doi.org/10.36547/am.s.31.4.2247</a>                                                                                                                                                                                      | 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><br>Bolsbay, A.,<br>Mamyrbayeva, K.,<br>Merkiybayev, Y.,<br>Moshnikov, V.,<br>Almyshbayeva, A.,<br>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 & metallurgica engineering –Q3 | ESCI | CiteScore 1.1 Metals and Alloys – 28 % Percentile | Mamyrbayeva, K.K., Kuandykova, A.N., <u>Chepushtanova, T</u> Merkiybayev, Y.S.    | 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 & metallurgica 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 & metallurgica 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.<br>DOI<br>10.17580/nfm.2022.02.03          | JIF 1.5<br>Metallurgy<br>&<br>metallurgical<br>engineering<br>- Q3 | ESCI | CiteScore 1.5<br>Metals and Alloys<br>- 46 % Percentile                                        | Chepushtanova, T.<br>Merkibayev, Y.S.<br>Mishra, B.<br>Kuldeyev, I.E.                                         | First<br>author |
| 13 | Niobium (V) Recovery from leaching solution of titanium wastes: kinetic Studies                                                     | Paper | Metalurgija 61 (2022) 3-4,<br>793-796. ISSN 05435846.                       | JIF 0.6<br>Metallurgy<br>&<br>metallurgical<br>engineering<br>- Q4 | ESCI | CiteScore 1.2<br>Metals and Alloys<br>- 32% Percentile                                         | Khabiev, A.,<br>Baigengonov, O.,<br>Korganbayeva, Zh.,<br>Chepushtanova, T.<br>Toishybek, A.,<br>Orynbayev B. | Co-<br>author   |
| 14 | Distribution of niobium and vanadium in titanium tetrachloride production middlings                                                 | Paper | Tsvetnye Metally, 2022,<br>2022(8), с 55-60. DOI<br>10.17580/tsm.2022.08.07 | -                                                                  | -    | CiteScore 1.0<br>Metals and Alloys<br>- 28% Percentile                                         | Sarsembekov, T.K.,<br>Chepushtanova, T.                                                                       | Co-<br>author   |
| 15 | Uranium (VI) Recovery from Black Shale Leaching Solutions Using Ion Exchange: Kinetics and Equilibrium Studies                      | Paper | Minerals, Vol 10, 689, 18.<br>P 1-15. 2020<br>DOI 10.3390/min10080689       | JIF 2.264<br>Mineralogy -<br>Q2                                    | SCIE | CiteScore 3.1<br>Geotechnical<br>Engineering and<br>Engineering<br>Geology - 66%<br>Percentile | Baigengonov, O.,<br>Khabiyev, A.,<br>Mishra, B.,<br>Chepushtanova, T.<br>Turan, MD.,<br>Akbarov, M.,          | Co-<br>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.<br>DOI10.7546/CRABS.2018.08.14 | JIF 0.321<br>Multidisciplinary sciences<br>- Q4 | SCIE | CiteScore 0.<br>Multidisciplinary<br>- 32 % Percentile  | Merkibayev Y.,<br>Panayotova, M.,<br>Chepushtanova, T.<br>Luganov V.,<br>Panayotov V.A., | Co-author |
| 17 | Oxide powders production from iron chloride                       | Paper | CIS Iron and steel review. Vol. 15, pp. 2018, 28-32.<br>DOI<br>10.17580/cisistr.2018.01.06.                                           | -                                               | -    | CiteScore 2.5<br>Metals and Alloys<br>- 73% Percentile  | Motovilov, Y.,<br>Luganov V.,<br>Chepushtanova, T.<br>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<br>10.17580/nfm.2017.02.01                                                          | -                                               | -    | CiteScore 0.7<br>Metals and Alloys<br>- 35 % Percentile | Osserov T. B.,<br>Ketegenov T. A.,<br>Chepushtanova, T.<br>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, <a href="https://doi.org/10.51301/ejsu.2025.i1.01">https://doi.org/10.51301/ejsu.2025.i1.01</a> | 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; <a href="https://doi.org/10.31643/2025/6445.11">https://doi.org/10.31643/2025/6445.11</a> , Q4, WoS.    | 14 | Merkibayev Y.S., Mamyrbayeva, K.K., Sarsembekov, 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. <a href="https://doi.org/10.51301/ejsu.2024.i1.03">https://doi.org/10.51301/ejsu.2024.i1.03</a>                                             | 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, <a href="https://doi.org/10.31643/2025/6445.32">https://doi.org/10.31643/2025/6445.32</a> | 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), <a href="https://doi.org/10.32014/2024.2518-1491.241">https://doi.org/10.32014/2024.2518-1491.241</a> . | 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, <a href="https://doi.org/10.51301/ejsu.2024.i5.01">https://doi.org/10.51301/ejsu.2024.i5.01</a>                                                                   | 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., Nikolosky, 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., Nikoloski, 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.,<br>Luganov V.A.,<br>Guseynova G.D.,<br>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.<br>Guseynova, G.D.<br>Motovilov, I.Yu.<br>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.<br>Guseynova, G.D.<br>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.,<br>Luganov, V.A.,<br>Akbarov, M.S.,<br>Shakirova, D.T.,<br>Sarsembaeva, M. R. |
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| 1              | Method for the Solvent Extraction of Copper from Sulfuric Acid Solutions                                                            | Printed /<br>Electronic | № 37492 from 22.08.2025, Application from 2024/0449.1                                                   | - | Esirkegenov M.I.,<br>Manyrbaeva K.K.,<br>Merkibaev E.S.                                           |

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|                             |                                                                                                                                         |                         |                                                                                                                                                                                                                                                       |   |                                                       |
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| 2                           | Patent for an Invention. Method for Processing Oxidized Lead-Zinc Ore.                                                                  | Printed /<br>Electronic | № 36282 from 30.06.2023 y., 2022/0331.1 from 30.05.2022.                                                                                                                                                                                              | - | Merkibaev, E.S.,<br>Luganov. V.A.                     |
| 3                           | Patent for an Invention. Method for Removing Arsenic and Carbon from Arsenopyrite-Carbon-Containing Concentrates.                       | Printed /<br>Electronic | № 35894 from 14.10.2022 y., 2021/0227.1                                                                                                                                                                                                               |   | Luganov V.A.,<br>Guseynova G.D.,<br>Merkibaev E.S.    |
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