

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

**List of scientific publications in international peer-reviewed journals
indexed in Scopus and Web of Science
Meiram Mukhametrakhimovich Begentayev**

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Scopus Author ID: 54950223200

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№	Title of the publication	Type of publication	Journal Title, Year of Publication, DOI	Journal Impact Factor, Quartile, and Subject Area according to Journal Citation Reports for the year of publication	Index in the Web of Science Core Collection	Journal CiteScore, Percentile, and Subject Area according to Scopus for the year of publication	Full names of the authors (<u>underline the name of the applicant</u>)	Role of the candidate
1	2	3	4	5	6	7	8	9
1	Success Factors of Youth Entrepreneurship Projects based on Fuzzy Analytic Hierarchy Method on the Example of Kazakhstan	Article	Acta Polytechnica Hungarica, T. 21, B. 11, C. 135 – 154, 2024 ISSN: 17858860	Engineering, multidisciplinary – Q2	SCIE	CiteScore 5.2 General Engineering – 78% процентиль	Aitzhanova D., <u>Begentayev M.</u> , Mukhanova G., Antoni A., Csiszárík-Kocsir Á., Orazymbetova A., Kiss, F.	Co-author

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2	Production of Composite Cement Clinker Based on Industrial Waste	Article	Journal of Composites Science, T. 8, B. 7, 2024 Номер статьи 257 DOI: 10.3390/jcs8070257	IF 3.0 Materials Science, composites Q2	ESCI	CiteScore 5.0 Ceramics and Composites – 63% процентиль	Kuandykova A., Taimasov B., Potapova E., Sarsenbaev B., Kolesnikov A., <u>Begentayev M.</u> , Kuldeyev E., Dauletiyarov M., Zhanikulov N., Amiraliyev B., Abdullin A.	Co-author
3	Study of Gas Swelling Processes under Irradiation with Protons and He ²⁺ Ions in Li ₄ SiO ₄ –Li ₂ TiO ₃ Ceramics	Article	Crystals, T. 13, B. 10, 2023, Номер статьи 1526 DOI: 10.3390/cryst13101526	IF 2.4 Materials science, Multidisciplinary – Q3	SCIE	CiteScore 4.2 General Materials Science – 52% процентиль	Kenzhina I.E., Kozlovskiy A.L., Chikhray Y., Kulsartov T., Zaurbekova Zh., <u>Begentayev M.</u> , Askerbekov S.	Co-author
4	Development of Geotechnical Seismic Isolation System in the Form of Vertical Barriers: Effectiveness and Perspective	Article	Buildings, T. 14, B. 9, 2024, Номер статьи 2736 DOI: 10.3390/buildings14092736	IF 3.1 Construction & Building technology Q2	SCIE	CiteScore 3.4 Building and Construction – 60% процентиль	Bessimbayev Y.T., Shadkam A.S., Begaliev U.T., <u>Begentayev M.M.</u> , Suleyev D.K., Zhumadilova Zh.O., Irgibayev T.I., Ussipbekov Y.Y.	Co-author

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5	Modelling the properties of aerated concrete on the basis of raw materials and ash-and-slag wastes using machine learning paradigm	Article	Frontiers in Materials, Том 11, 2024, Номер статьи 1481871 DOI 10.3389/fmats.2024.1481871	IF 2.6 Materials science, multidisciplinary Q3	ESCI	CiteScore 4.8 Materials Science (miscellaneous) – 68% процентиль	Rudenko O. Galkina D. Sadenova M. Beisekenov N. Kulisz M. <u>Begentayev M.</u>	Co-author
6	The connection between the accumulation of structural defects caused by proton irradiation and the destruction of the near-surface layer of Li ₄ SiO ₄ – Li ₂ TiO ₃ ceramics	Article	Optical Materials: X, T. 24, 2024 Номер статьи 100367, DOI: 10.1016/j.omx.2024.100367	-	-	CiteScore 3.3 Electronic, Optical and Magnetic Materials – 42% процентиль	Kenzhina I., Kozlovskiy A., Tolenova A., <u>Begentayev M.</u> , Askerbekov S.	Co-author
7	Improving the Methods of Solid Domestic Waste Disposal to Reduce Its Human Impact on the Environment	Article	Sustainability (Switzerland), T. 16, B. 24, 2024, Номер статьи 11071	IF 3.3 Environmental sciences – Q2	SSCI	CiteScore 6.8 Environmental Science (miscellaneous) – 83% процентиль	Baibatyrova B., Tileuberdi A., <u>Begentayev M.</u> , Kuldeyev E., Nyrlybayev R., Altybayev Zh., Sarsenbayev B., Abduova A., Sauganova G.	Co-author
8	Physical–Mechanical and Microstructural Properties of Non-Autoclaved Aerated	Article	Sustainability (Switzerland), T. 17, B. 1, 2025, Номер статьи 73 DOI	IF 3.3 Environmental sciences – Q2	SSCI	CiteScore 6.8 Environmental Science (miscellaneous)	Rudenko O., Galkina D., Sadenova M., Beisekenov N.,	Co-author

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	Concrete with Ash-and-Slag Additives		10.3390/su17010073			– 83% процентиль	Kulisz M., <u>Begentayev M.</u>	
9	Features of Helium and Tritium Release from Li ₂ TiO ₃ Ceramic Pebbles under Neutron Irradiation	Article	Materials, T. 16, B. 17, 2023, Номер статьи 5903	IF 3.1 Physics, Condensed matter – Q2	SCIE	CiteScore 5.8 Condensed Matter Physics – 73% процентиль	Kulsartov T., Zaurbekova Zh., Chikhray Y., Kenzhina I., Askerbekov S., Shaimerdenov A., Akhanov A., Aitkulov M. <u>Begentayev M.</u>	Co-author
10	Investigation of Hydrophysical Properties and Corrosion Resistance of Modified Self-Compacting Concretes	Article	Materials, T. 17, B. 11, June 2024, Номер статьи 2605 DOI: 10.3390/ma17112605	IF 3.1 Physics, Condensed matter – Q2	SCIE	CiteScore 5.8 Condensed Matter Physics – 73% процентиль	Zhagifarov A.M. Akhmetov D.A. Suleyev D.K. Zhumadilova Zh.O. <u>Begentayev M.</u> , Pukharensko Yu.V.	Co-author
11	Influence of the Change of Phase Composition of (1 – x) ZrO ₂ –xAl ₂ O ₃ Ceramics on the Resistance to Hydrogen Embrittlement	Article	Materials, T. 16, B. 22, 2023, Номер статьи 7072. DOI: 10.3390/ma16227072	IF 3.1 Physics, Condensed matter – Q2	SCIE	CiteScore 5.8 Condensed Matter Physics – 73% процентиль	Kenzhina I.E., Kozlovskiy A.L., <u>Begentayev M.</u> , Tolenova A., Askerbekov S.	Co-author
12	High-temperature test of tin-lithium CPS under deuterium plasma irradiation conditions	Article	Journal of Nuclear Materials, T. 587, 2023, Номер статьи 154754 DOI: 10.1016/j.jnucmat.2023.154754	IF 2.8 Nuclear science & technology – Q1	SCIE	CiteScore 5.7 Nuclear Energy and Engineering – 86% процентиль	Ponkratov Y.V., Samarkhanov K.K., Baklanov V.V., Bochkov V.S., Sokolov I.A., Miniyazov A.Zh., Tulenbergenov T.R.,	Co-author

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							Kenzhina I.E., <u>Begentayev M.M.</u> , Tulubayev Ye.Yu., Bukina O.S., Orazgaliyev N.A., Saparbek E.	
13	Study of Morphological, Structural, and Strength Properties of Model Prototypes of New Generation TRISO Fuels	Article	Materials, T. 15, B. 14, 2022, Номер статьи 4741 DOI: 10.3390/ma15144741	IF 3.4 Physics, Condensed matter – Q2	SCIE	Condensed Matter Physics – 73% процентиль	Kenzhina I., Blynskiy P., Kozlovskiy A., <u>Begentayev M.</u> , Askerbekov S., Zaurbekova Z., Tolenova A.	Co-author
14	The use of mining and metallurgy waste in manufacture of building materials	Article	Eurasian Mining, T. 41, B. 1, C. 14 – 19, 2024, DOI: 10.17580/em.2024.01.04	IF 0.4 Mining & Mineral processing – Q4	ESCI	CiteScore 2.7 Industrial and Manufacturing Engineering – 54% процентиль	<u>Begentayev M.M.</u> , Nurpeisova M.B., Fedotenko V.S., Bek A.A.	First author
15	Synthesis, Characterization and Evaluation of the Application of CoZn Nanostructures as Anode Materials	Article	Batteries Том 9, Выпуск 8, 2023 Номер статьи 421 DOI: 10.3390/batteries9080421	IF 4 Electrochemistry Q2	SCIE	CieScore 4.0 Electrochemistry – 42% процентиль	Zikirina A.M. Temirtassova A. Kozlovskiy A.L. Kenzhina E.I.	Co-author
16	Supporting R, D&I in the creative industries	Book chapter	Research, Development and Innovation in the Creative Industries: Reframing Our	-	-	-	Fodor, M.M., <u>Begentayev M.M.</u> , Turegeldinova, A.	Co-author

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			Understanding of the Creative Economy, C. 65 – 78, 2025 DOI: 10.4324/9781003481805-4					
17	Study of the influence of technological factors on the density and strength of ash-gas concrete	Article	News of the National Academy of Sciences of the Republic of Kazakhstan, Series of Geology and Technical Sciences, T. 1, B. 463, C. 45 – 57, 2024 DOI: 10.32014/2024.2518-170X.364	-	-	CiteScore 1.8 Geology – 42% процентиль	Begentayev M., Nurpeisova M., Kuldiev E., Nurlybaev R., Bek U.	Co-author
18	Nuclear-excited source of coherent and incoherent radiation with direct nuclear pumping	Article	Applied Radiation and Isotopes, T. 214, 2024 Номер статьи 111503	IF 1.6 Radiology, Nuclear medicine & Medical imaging Q3	SCIE	CiteScore – 3.0 Radiation – 54% процентиль	Samarkhanov K., Khasenov M., Batyrbekov E., Skakov M., Gradoboev A., Bedenko S., Vega-Carrillo H.R., Kenzhina I., Askerbekov S., Kozlovskiy A., Zaurbekova Zh., Shaimerdenov A.	Co-author

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19	Method for determining parameters of isolation network voltage up to 1000 V in mining enterprises	Conference Proceedings	Proceedings of the IASTED International Conference on Power and Energy Systems and Applications, PESA 2011, C. 50 – 53, 2011, Код 88352 DOI: 10.2316/P.2011.756-028	-	-	-	Utegulov B., Utegulov A., <u>Begentayev M.</u> , Begentayev B., Uakhitova A., Zhumazhanov S., Zhakipov N.	Co-author
20	Development of Geotechnical Seismic Isolation System in the Form of Vertical Barriers: Effectiveness and Perspective	Article	Buildings, T. 14, B. 9, 2024, Номер статьи 2736 DOI: 10.3390/buildings14092736	IF 3.1 Construction & Building technology Q2	SCIE	CiteScore 3.4 Building and Construction – 60% процентиль	Bessimbayev Y.T., Shadkam A.S., Begaliev U.T., <u>Begentayev M.M.</u> , Suleyev D.K., Zhumadilova Zh.O., Irgibayev T.I., Ussipbekov Y.Y.	Co-author
21	Method for determining the insulation in asymmetric networks with voltage up to 1000 V in mining enterprises	Conference Proceedings	Proceedings of the IASTED International Conference on Power and Energy Systems and Applications, PESA 2011, Страницы 54 – 57, 2011, Код 88352 DOI: 10.2316/P.2011.756-029	-	-	-	Utegulov B., Utegulov A., <u>Begentayev M.</u> , Begentayev B., Uakhitova A., Zhakipov N., Sadvakasov T.	Co-author
22	Excitation control asynchronized synchronous	Conference Proceedings	Proceedings of the IASTED International	-	-	-	Utegulov B., Utegulov A.,	Co-author

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	compensators remedy for mains voltage fluctuations with sharply variable loads		Conference on Modelling, Simulation, and Identification, MSI 2011, C. 144 – 146, Код 88282				<u>Begentayev M.</u> , Uakhitova A., Zhumazhanov S., Zhakipov N., Tleulenova G.	
23	Establishing ceiling voltage, limit slips and inertia constant in a rotor of asynchronized synchronous compensator	Conference Proceedings	Proceedings of the IASTED International Conference on Modelling, Simulation, and Identification, MSI, 2011, C. 147 – 150	-	-	-	Utegulov B., Utegulov A., <u>Begentayev M.</u> , Uakhitova A., Zhumazhanov S., Zhakipov N., Koftanyuk D.	Co-author

№ п/п	Title of the publication	Type of publication	Publication details	Numbe r 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	Prediction of compressive strength and density of aerated ash concrete	Printed	Technobius, 2025, V. 5, № 1, P. 36-44 doi.org/10.54355/tbus/5.1.2025.0074	9	Anop D., Rudenko O., Shevlyakov V., Aubakirova Z., Soshnikov N.,

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2	Зертханалық және өнеркәсіптік жағдайларда алынған газобетон үлгілерінің қасиеттерінің айырмашылығын талдау	Printed	Вестник ВКТУ, №2, С. 318-329, 2024, DOI 10.51885/1561-4212_2024_2_318.	12	Руденко О.В., Аноп Д.К., Шевляков В.Ф., Лутай С.С., Аубакирова З.А.
3	The current economic state of the tourism industry of Pavlodar region and the assessment of strategic investments in its development	Printed	Экономика: стратегия и практика, Т. 16, № 1, 2021 г. С. 81-92 DOI: 10.51176/JESP/vol 16 issue 1 T5	12	Titkov A.A., Ibraimova S.Zh., Kunyazova S.K.
4	Youth entrepreneurship in the Republic of Kazakhstan: concept, problems and solutions	Printed	Bulletin of the Karaganda university Economy series. Т. 102, В. 2, 2021 DOI: 10.31489/2021ec2/4-15	12	Aitzhanova D.N., Kunyazova S.K., Titkov A.A.
5	Совершенствование системы инвестиционного обеспечения инновационной деятельности в Казахстане	Printed	Саясат-POLICY. - 2009. - №5. - С. 4 – 8	5	-
6	Приоритетные направления по государственной поддержке наукоемкого сектора: [о государственной поддержке наукоемкого сектора РК]	Printed	Саясат. - 2009. - №4 (апрель). - С. 57 – 58	2	-
7	Совершенствование системы управления организациями научной сферы в Республике Казахстан	Printed	Саясат. - 2004. - N5. - С.75 – 79	5	-
8	Формы развития научной сферы в экономике Казахстана	Printed	Вестник ПГУ. Серия экономическая. - 2006.- №4. - С.16 – 25	9	-
9	Предпринимательство в научно-технической сфере Казахстана	Printed	Вестник ПГУ. Серия экономическая. - 2007. - №1. - С. 14 – 21	7	-
10	Индустриально-инновационные кластеры в промышленности и организационно-	Printed	Вестник университета «Туран». - 2009. - №2. - С. 20 – 25	5	-

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	экономические основы их формирования: [об индустриально-инновационных кластерах в промышленности]				
Patents					
11	Учебный стол	electronic	Полезная модель №7810 от 17.02.2023	-	Жумабеков И.А.
12	Настольно-цифровая профориентационная игра	electronic	Полезная модель №8921 от 07.03.2024		Виноградов Е.И.С Судаков Д.А. Варламова Д.М. Байкадамова А.М.
13	Многоцелевой квадрокоптер с конфигурируемой платформой	electronic	Полезная модель №8789 от 19.01.2024	-	Оксененко А.А. Таланов В.С. Бактығали Ж.Қ. Есин А.Н.
14	Арболитовая смесь	electronic	Полезная модель №9716 от 24.10.2024	-	Ауесбек С., Сарсенбаев Б., Кульдеев Е., Акматайұлы К., Сарсенбаев Н., Сауганова Г., Айменов Ж.
Articles published in other scientific journals and publications					
15	Индустриально-инновационные кластеры в промышленности и организационно- экономические основы их формирования (на примере Республики Казахстан)	Printed	Сибирская финансовая школа, Выпуск №4, 2009 г.	-	-
16	Опыт подготовки квалифицированных кадров для машиностроительной отрасли	Printed	Қазақстан ғылымы мен техникасы, Выпуск №3, 2019г.	10	Абишев К. К.

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International scientific and practical conferences					
17	Создание растворов на основе отходов ГМК для укрепления трещиноватых поверхностей	electronic	НТК “Перспективы применения цифровых технологий в рациональном и безопасном недропользовании”. Ташкент, 8-9 октября 2024, С. 291.	-	Кульдеев Е.И., Нурлыбаев Р.Е., Нурпеисова М.Б., Бек А.А.
18	О возможности утилизации техногенных отходов в качестве вторичного сырья	electronic	Materials of the XXI International scientific and practical Conference Modern scientific potential, February 28 - March 7 2024, Sheffield. Science and education LTD, P. 31-36.	6	Сарсенбаев Б.К., Колесников А.С., Кульдеев Е.И., Алтынбек А., Сауганова Г.Р., Әуесбек С.Т., Колесникова О.Г.
Monographs and Teaching aids					
19	Экологические проблемы утилизации отходов горной промышленности для производства строительных материалов.	Printed	Satbayev University, 2024, 250 с., Алматы.	250	Нурпеисова М.Б., Кульдеев Е.И., Нурлыбаев Р.Е.
20	Құрылыс материалдарын өндірудегі тау кен кәсіпорындарының қалдықтарын іске асырудың экологиялық мәселелері.	Printed	Satbayev University, 2024, 250 с., Алматы.	250	Нурпеисова М.Б., Кульдеев Е.И., Нурлыбаев Р.Е.

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