

MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE REPUBLIC OF KAZAKHSTAN
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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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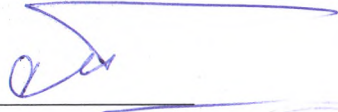
№	Title of the publication	Type of publication	Journal Title, Year of Publication, DOI	Journal Impact Factor, Quartile, and Subject Area according to Journal Citation Reports for the year of publication	Index in the Web of Science Core Collection	Journal CiteScore, Percentile, and Subject Area according 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	Investigation of Hydrophysical Properties and Corrosion Resistance of Modified Self-Compacting Concretes	Article	Materials, T. 17, B. 11, June 2024, N 2605. DOI: 10.3390/ma17112605	(2023) IF 3.1 Physics, Condensed matter – Q2	(2023) SCIE	CiteScore 6.4 Condensed Matter Physics – 79% percentile	Zhagifarov A.M. Akhmetov D.A. Suleyev D.K. Zhumadilova Zh.O. <u>Begentayev M.</u> Pukhareno Yu.V.	Co - author

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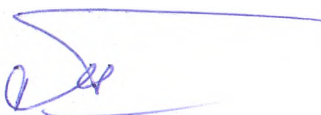
2	Features of Helium and Tritium Release from Li ₂ TiO ₃ Ceramic Pebbles under Neutron Irradiation	Article	Materials, T. 16, B. 17, 2023, N 5903	IF 3.1 Physics, Condensed matter – Q2	SCIE	CiteScore 5.8 Condensed Matter Physics – 73% percentile	Kulsartov T., Zaurbekova Zh., Chikhray Y., Kenzhina I., Askerbekov S., Shaimerdenov A., Akhanov A., Aitkulov M. <u>Begentayev M.</u>	Co - author
3	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, N 7072. DOI: 10.3390/ma16227072	IF 3.1 Physics, Condensed matter - Q2	SCIE	CiteScore 5.8 Condensed Matter Physics – 73% percentile	Kenzhina I.E., Kozlovskiy A.L., <u>Begentayev M.</u> , Tolenova A., Askerbekov S.	Co - author
4	Study of Morphological, Structural, and Strength Properties of Model Prototypes of New Generation TRISO Fuels	Article	Materials, T. 15, B. 14, 2022, N 4741 DOI: 10.3390/ma15144741	IF 3.4 Physics, Condensed matter – Q2	SCIE	CiteScore 5.2 Condensed Matter Physics – 70% percentile	Kenzhina I., Blynskiy P., Kozlovskiy A., <u>Begentayev M.</u> , Askerbekov S., Zaurbekova Z., Tolenova A.	Co - author
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, Tom 11, 2024, N 1481871 DOI 10.3389/fmats.2024.1481871	(2023) IF 2.6 Materials science, multidisciplina ry - Q3	(2023) SCIE	CiteScore 5.6 Materials Science (miscellaneous) – 70% percentile	Rudenko O. Galkina D. Sadenova M. Beisekenov N. Kulisz M. <u>Begentayev M.</u>	Co - author

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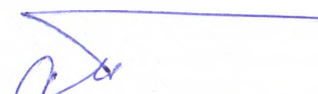
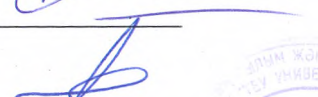
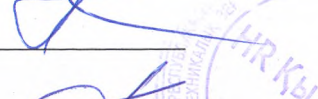
6	Production of Composite Cement Clinker Based on Industrial Waste	Article	Journal of Composites Science, T. 8, B. 7, 2024 N 257 DOI: 10.3390/jcs8070257	(2023) IF 3.0 Materials Science, composites - Q2	(2023) ESCI	CiteScore 5.8 Ceramics and Composites – 65% percentile	Kuandykova A., Taimasov B., Potapova E., Sarsenbaev B., Kolesnikov A., <u>Begentayev M.</u> , Kuldeyev E., Dauletiyarov M., Zhanikulov N., Amiraliyev B., Abdullin A.	Co - author
7	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, N 1526 DOI: 10.3390/cryst13101526	IF 2.4 Materials science, Multidisciplinary – Q3	SCIE	CiteScore 4.2 General Materials Science – 52% percentile	Kenzhina I.E., Kozlovskiy A.L., Chikhray Y., Kulsartov T., Zaurbekova Zh., <u>Begentayev M.</u> , Askerbekov S.	Co - author
8	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 N 100367, DOI: 10.1016/j.omx.2024.100367	-	-	CiteScore 4.2 Electronic, Optical and Magnetic Materials – 52% percentile	Kenzhina I., Kozlovskiy A., Tolenova A., <u>Begentayev M.</u> , Askerbekov S.	Co - author
9	Synthesis, Characterization and Evaluation of the Application of CoZn	Article	Batteries Том 9, Выпуск 8, 2023 N 421 DOI:	IF 4.6 Electrochemistry - Q2	SCIE	CieScore 4.0	Zikirina A.M. Temirtassova A. Kozlovskiy A.L.	Co - author

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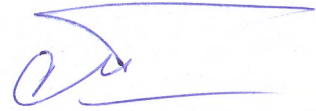
	Nanostructures as Anode Materials		10.3390/batteries9080421			Electrochemist ry – 42% percentile	Kenzhina E.I. <u>Begentayev, M</u>	
10	Success Factors of Youth Entrepreneurship Projects based on Fuzzy Analytic Hierarchy Method on the Example of Kazakhstan	Article	Acta Polytechnica Hungarica, T. 21, B. 11, C. 135 – 154, 2024 ISSN: 17858860	(2023) JIF 1.4 Engineering, multidisciplina ry – Q2	(2023) SCIE	CiteScore 5.8 General Engineering – 80% percentile	Aitzhanova D., <u>Begentayev M.</u> , Mukhanova G., Antoni A., Csiszárík-Kocsir Á., Orazymbetova A., Kiss, F.	Co - author
11	Improving the Methods of Solid Domestic Waste Disposal to Reduce Its Human Impact on the Environment	Article	Sustainability (Switzerland), T. 16, B. 24, 2024, N 11071	(2023) IF 3.3 Environmental sciences – Q2	(2023) SCIE	CiteScore 7.7 Environmental Science (miscellaneous) – 86% percentile	Baibatyrova B., Tileuberdi A., <u>Begentayev M.</u> , Kuldeyev E., Nyrlybayev R., Altybayev Zh., Sarsenbayev B., Abduova A., Sauganova G.	Co - author
12	Physical–Mechanical and Microstructural Properties of Non-Autoclaved Aerated Concrete with Ash-and-Slag Additives	Article	Sustainability (Switzerland), T. 17, B. 1, 2025, N 73 DOI 10.3390/su17010073	(2023) IF 3.3 Environmental sciences – Q2	SCIE	(2024) CiteScore 7.7 Environmental Science (miscellaneous) – 86% percentile	Rudenko O., Galkina D., Sadenova M., Beisekenov N., Kulisz M., <u>Begentayev M.</u>	Co - author

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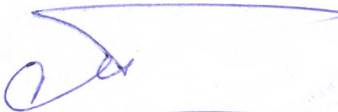
13	High-temperature test of tin-lithium CPS under deuterium plasma irradiation conditions	Article	Journal of Nuclear Materials, T. 587, 2023, N 154754 DOI: 10.1016/j.jnucmat.2023.154754	IF 2.8 Nuclear science & technology - Q1	SCIE	CiteScore 5.7 Nuclear Energy and Engineering – 86% percentile	Ponkratov Y.V., Samarkhanov K.K., Baklanov V.V., Bochkov V.S., Sokolov I.A., Miniyazov A.Zh., Tulenbergenov T.R., Kenzhina I.E., <u>Begentayev M.M.</u> , Tulubayev Ye.Yu., Bukina O.S., Orazgaliyev N.A., Saparbek E.	Co - author
14	Nuclear-excited source of coherent and incoherent radiation with direct nuclear pumping	Article	Applied Radiation and Isotopes, T. 214, 2024 N 111503	(2023) IF 1.6 Radiology, Nuclear medicine & Medical imaging - Q3	(2023) SCIE	(2023) CiteScore – 3.2 Radiation – 63% percentile	K. K. Samarkhanov, M. U. Khasenov, E. G. Batyrbekov, M. K. Skakov, A. V. Gradoboev, S.V. Bedenko, H.R. Vega-Carrillo, I. E. Kenzhina, S.K. Askerbekov, A. L. Kozlovskiy, Zh. A. Zaurbekova, A. A. Shaimerdenov, <u>M.M. Begentayev</u> , A. U. Tolenova, A. M. Abshurikova	Co - author

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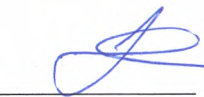
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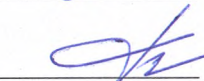
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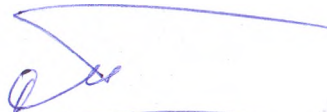
15	Development of Geotechnical Seismic Isolation System in the Form of Vertical Barriers: Effectiveness and Perspective	Article	Buildings, T. 14, B. 9, 2024, N 2736 DOI: 10.3390/buildings14092736	(2023) IF 3.1 Construction & Building technology - Q2	(2023) SCIE	CiteScore 4.4 Building and Construction – 69% percentile	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
16	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	(2023) IF 0.4 Mining & Mineral processing – Q4	(2023) ESCI	CiteScore 2.3 Industrial and Manufacturing Engineering – 46% percentile	<u>Begentayev M.M.</u> , Nurpeisova M.B., Fedotenko V.S., Bek A.A.	First author
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 1.9 Geology – 43% percentile	<u>Begentayev M.</u> , Nurpeisova M., Kuldiev E., Nurlybaev R., Bek U.	First author
18	Low-temperature sintering of zirconia-based ceramic composites for capacitor applications	Article	Ceramics International 2025	-	-	(2024) CiteScore 9.1	Kenzhina I.E., Kozlovskiy A.L., Volodina N.O., Shakirzyanov R.I.,	Co - author

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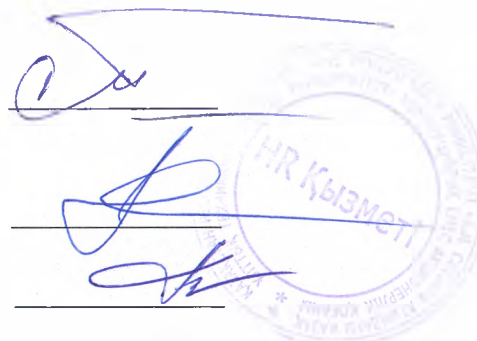
						Ceramics and Composites – 81% percentile	Garanin Yu.A., Maznykh S.A., Makhanov K.M., Tolenova A.U., <u>Begentayev M.</u> , Askerbekov S.K., Blynskiy P.A., Zaurbekova Zh.A.	
19	Study of Diffusion Expansion of Damaged Layer in Nd ₂ Zr ₂ O ₇ Ceramics Under High-Temperature Irradiation	Article	Fusion Science and Technology. 2025	(2023) JIF 0.9	(2023) SCIE	(2024) CiteScore 2.1 General Materials Science – 32% percentile	Kenzhina I.; Kabiyev, M; Kozlovskiy, A; <u>Begentayev, M.</u> ; Tolenova, A; Blynskiy, P	Co - author
20	Supporting R, D&I in the creative industries	Book chapter	Research, Development and Innovation in the Creative Industries: Reframing Our Understanding of the Creative Economy, C. 65 – 78, 2025 DOI: 10.4324/9781003481805-4	-	-	-	Fodor M.M., <u>Begentayev M.M.</u> , Turegeldinova A.	Co - author
21	Method for determining parameters of isolation	Conference paper	Proceedings of the IASTED International Conference on Power and	-	-	-	Utegulov B., Utegulov A., <u>Begentayev M.</u>	Co - author

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	network voltage up to 1000 V in mining enterprises		Energy Systems and Applications, PESA 2011, C. 50 – 53, 2011, Код 88352 DOI: 10.2316/P.2011.756-028				Begentayev B., Uakhitova A., Zhumazhanov S., Zhakipov N.	
22	Method for determining the insulation in asymmetric networks with voltage up to 1000 V in mining enterprises	Conference paper	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
23	Excitation control asynchronized synchronous compensators remedy for mains voltage fluctuations with sharply variable loads	Conference paper	Proceedings of the IASTED International Conference on Modelling, Simulation, and Identification, MSI 2011, C. 144 – 146, Код 88282	-	-	-	Utegulov B., Utegulov A., <u>Begentayev M.</u> , Uakhitova A., Zhumazhanov S., Zhakipov N., Tleulenova G.	Co - author
24	Establishing ceiling voltage, limit slips and inertia constant in a rotor of asynchronized synchronous compensator	Conference paper	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.,	Co - author

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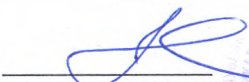
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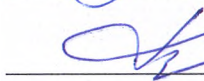
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№ п/п	Title of the publication	Type of publication	Publication details	Number of pages	Co-authors
1	2	3	4	5	6
Articles in publications recommended by the Committee for Quality Assurance in the Field of Science and Higher Education of the Ministry of Higher Education and Science of the Republic of Kazakhstan					
1	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.,
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.

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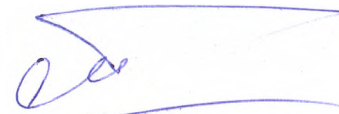
5	Совершенствование системы инвестиционного обеспечения инновационной деятельности в Казахстане	Printed	Саясат-POLICY. - 2009. - №5. - С. 4 – 8	5	-
6	Приоритетные направления по государственной поддержке наукоемкого сектора: [о государственной поддержке наукоемкого сектора РК]	Printed	Саясат. - 2009. - №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-экономические основы их формирования: [об индустриально-инновационных кластерах в промышленности]	Printed	Вестник университета «Туран». - 2009. - №2. - С. 20 – 25	5	-
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.

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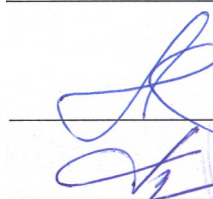
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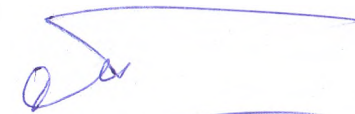
					Бақтығали Ж.Қ. Есин А.Н.
14	Арболитовая смесь	electronic	Полезная модель №9716 от 24.10.2024	-	Ауесбек С., Сарсенбаев Б., Кульдеев Е., Акматайұлы К., Сарсенбаев Н., Сауганова Г., Айменов Ж.
Articles published in other scientific journals and publications					
15	Индустриально-инновационные кластеры в 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.
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.
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					Әуесбек С.Т., Колесникова О.Г.
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