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List of scientific papers in international peer-reviewed scientific journals included in the Scopus and Web of Science databases
Alimbayeva Zhadyra

Author IDs:
Scopus Author ID: 57191189943
Web of Science Researcher ID: AAP-3106-2020,
ORCID: https://orcid.org/0000-0002-2628-2515

№/ No.	Title of the publication	Type of publication	Name of the journal, year of publication, DOI	The impact factor of the journal, quartile and field of science according to Journal Citation Reports for the year of publication	Index in the Web of Science Core Collection database	CiteScore of the journal, percentile and field of science according to Scopus data for the year of publication	Name of the authors (underline the name of the applicant)	The role of the applicant
1	2	3	4	5	6	7	8	9
1	Development and Clinical Evaluation of a Wearable 12-Lead Electrocardiographic Platform with Automated ECG Analysis for Telemedicine Applications	Article	Sensors, 2026, Vol. 26, Issue 17, 5510. https://doi.org/10.3390/s26175510	(2025) JIF 4.0,	SCIE	(2024) CiteScore 9.4, Computer Science: Information Systems - 83 %	Alimbayeva Zh., Alimbayev Ch., Ozhikenov K., Karibayev K., Ozhikenova A., Khaidarova K., Daniyalov M.,	First author

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						percentileperce ntile	Shylmyrza U., Igembay Y., Nurdanali A.	
2	State-of-the-Art Knee Exoskeleton for Gait Assistance and Rehabilitation: Systematic Review	Review	JMIR Rehabilitation and Assistive Technologies (JMIR Publications), 2026, 13:e94916; https://doi.org/10.2196/94916	(2025) JIF 5.4,	ESCI	(2025) CiteScore 5.4, Rehabilitation - 90 % percentileperce ntile	Karibzhanova D., Niyetkaliyev A., Khawaja A. R., Zhaisanbek A., Zeeshan, Utepbergen A., Jamwal P. K., Ozhikenov K., Ozhikenova A., Alimbayev C., Alimbayeva Z., Bigaliyeva Z., Bazarbay L., Didar S.	Co-author
3	Finite Element Analysis of Prosthetic Finger Connectors: Comparison of Ti-6Al-4V and PEEK-Based Polymers Using COMSOL	Article	Prosthesis (MDPI), 2026, 8(8), 81; https://doi.org/10.3390/prosthesis8080081	(2025) JIF 2.9,	ESCI	(2025) CiteScore 4.8, Engineering: Biomedical Engineering - 53% percentileperce ntile	Assan N., Suleimenov K., Ozhikenova A., Alimbayeva Zh., Ozhiken A., Kapsalyamov A.	Co-author
4	Optimization of Low-Channel EEG Configurations and Temporal Segmentation for	Article	Algorithms (MDPI), 2026, 19(7), 588;	(2025) JIF 2.6,	ESCI	(2025) CiteScore 5.4, Computer	Tuimebay Y., Alimbayev Ch.,	Corresponding author

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	Motor Imagery Classification Using a Flexible EEGNet Framework		https://doi.org/10.3390/a19070588			Science: Computational Theory and Mathematics- 77 % percentileperce ntile	Alimbayeva Zh., Ozhikenov K.	
5	Interpretable Machine Learning Approach for Diabetes Classification in Patients with Cardiovascular Disease	Article	Algorithms (MDPI), 2026, Vol. 19, No. 7, Article 546. https://doi.org/10.3390/a19070546	(2025) JIF 2.6,	ESCI	(2025) CiteScore 5.4, Computer Science: Computational Theory and Mathematics- 77 % percentileperce ntile	Alimbayev Ch., Alimbayeva Zh., Ozhikenov K., Karabayev K., Abuova Zh., Akhmedova D.	Corresponding author
6	A Structured Critical Review of Machine Learning Approaches for ECG-Based Detection of Dysglycemia and Their Translational Readiness	Review	Applied Sciences (MDPI), 2026, Vol. 16, No. 11, Article 5359. https://doi.org/10.3390/app16115359	(2025) JIF 2.9,	SCIE	(2025) CiteScore 6.1, Computer Science: Computer Science Applications - 70 % percentileperce ntile	Alimbayeva Zh., Alimbayev Ch., Ozhikenov K., Ozhikenova A., Shylmyrza U., Khaidarova K.	First author

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7	Prediction of Percutaneous Coronary Intervention from Clinical and ECG Data Using Machine Learning: A Retrospective Single-Center Observational Study	Article	Algorithms (MDPI), 2026, Vol. 19, No. 5, Article 367. https://doi.org/10.3390/a19050367	(2025) JIF 2.6,	ESCI	(2025) CiteScore 5.4, Computer Science: Computational Theory and Mathematics- 77 % percentileperce ntile	Alimbayeva Zh., Alimbayev Ch., Ozhikenov K., Karabayev K., Ozhikenova A., Shylmyrza U., Akhmedova D.	First author
8	Electrocardiographic Signatures of Dysglycaemia: Mechanistic Foundations, Digital Biomarkers, and Artificial Intelligence for Non-Invasive Diabetes Risk Stratification	Review	Applied Sciences (MDPI), 2026, Vol. 16, No. 6, Article 2902. https://doi.org/10.3390/app16062902	(2025) JIF 2.9,	SCIE	(2025) CiteScore 6.1, Computer Science: Computer Science Applications - 70 % percentileperce ntile	Alimbayev Ch., Alimbayeva Zh., Ozhikenov K., Karabayev K., Orynbay Zh., Igembay Y., Daniyalov M., Nurdanali A.	Correspon ding author
9	Development and Pilot Evaluation of a Wearable 12-Lead ECG System for Multilead Feature Analysis in Individuals with Different Glycemic Status	Article	Sensors (MDPI), 2026, Vol. 26, No. 5, Article 1598. https://doi.org/10.3390/s26051598	(2025) JIF 4.0,	SCIE	(2024) CiteScore 9.4, Computer Science: Information Systems - 83 % percentileperce ntile	Alimbayev Ch., Alimbayeva Zh., Ozhikenov K., Karabayev K., Orynbay Zh., Igembay Y., Daniyalov M., Nurdanali A.	Correspon ding author

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13	Neural Network Algorithm Based on LVQ for Myocardial Infarction Detection and Localization Using Multi-Lead ECG Data	Article	Computers, Materials & Continua, 2025, Vol. 82, No. 3, pp. 5257–5284. https://doi.org/10.32604/cmc.2025.061508	(2025) JIF 2.4,	SCIE	(2025) CiteScore 6.6, Computer Science: Computer Science Applications - 73 % percentileperc entile	Ozhikenov K., Alimbayeva Zh., Alimbayev Ch., Ozhikenova A., Altay Y.	Correspo nding author
14	Wearable ECG Device and Machine Learning for Heart Monitoring	Article	Sensors (MDPI), 2024, Vol. 24, Issue 13, Article 4201. https://doi.org/10.3390/s24134201	(2025) JIF 3.5,	SCIE	(2024) CiteScore 8.2, Computer Science: Information Systems – 80 % percentileperc entile	Alimbayeva Zh., Alimbayev Ch., Ozhikenov K., Bayanbay N., Ozhikenova A.	First author

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№ п/п	Title of the publication	Nature of the publication	Publication details	number of pages	Coauthors
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 Science and Higher Education of the Republic of Kazakhstan				
1	Robotic Shoulder Rehabilitation After Stroke: Development and Validation of a Hybrid Cable-Driven Exoskeleton System	Electronic	Traumatology and Orthopaedics of Kazakhstan. – 2026. – Vol. 77, No. 1. – Article jto035. DOI: https://doi.org/10.52889/1684-9280-2026-77-1-jto035	10	Есіркепов Ш., Карашева М., Аскаров Б., Өжікен А., Әлімбаев Ш.
2	Comparative Analysis of Deep Learning Architectures for Osteoporosis Detection in Knee Radiographs: From Custom CNN to Transfer Learning	Electronic	Traumatology and Orthopaedics of Kazakhstan. – 2026. – Vol. 77, No. 3. – Article jto053. DOI: https://doi.org/10.52889/1684-9280-2026-77-3-jto053	8	Boltaboyeva A., Baigarayeva Zh., Imanbek B., Ozhikenov K., Alimbayev C.
3	Development of a Material Database and an Automated Selection Algorithm for a Surgical Robotic Manipulator	Electronic	Scientific Journal of Astana IT University. – 2026. – Vol. 26, No. 2. – P. 201–218. DOI: https://doi.org/10.37943/QWTM1513	18	Bolatbekova D., Serik D., Beisenali U., Alimbayev C., Ozhikenov K.
4	Automated Classification of Hemodynamically Significant Arrhythmias Based on ECG Features	Electronic	Bulletin of Shakarim University. Technical Sciences Series. – 2025. – № 4 (20). – С. 6–13. DOI: https://doi.org/10.53360/2788-7995-2025-4(20)-1	8	Бекбай А.Т., Байтурганова В.К., Алимбаева Ж.Н., Исабеков Ж.Н.

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5	Цифровой эстезиометр для оценки чувствительности полости рта	Electronic	Bulletin of KazATC. – 2025. – № 3 (138). – С. 302–310. DOI: https://doi.org/10.52167/1609-1817-2025-138-3-302-310	9	Нұрданәлі А., Алимбаев Ч., Ожикенов К., Абылгазинова С.
6	An early warning system for hospitals using a wearable ecg device and machine learning	Electronic	Bulletin of KazATC. – 2024. – № 6 (135). – С. 383–392. DOI: https://doi.org/10.52167/1609-1817-2024-135-6-383-392	10	Alimbayev Ch., Akhmedova D., Ozhikenov K., Ualieva Zh.
	Patents				
7	Коленный экзоскелет с механизмом самовыравнивания		Patent of the Republic of Kazakhstan for a Utility Model № 12801, 2026		Ниеткалиев А.С., Даулетбаев Ш.О., Ожикенов К.А.,
8	Цифровой эстезиометр		Patent of the Republic of Kazakhstan for an Invention № 38014, 2026		Ожикенов К.А., Алимбаев Ч.А., Нұрданәлі А., Құралбеков А.Ж., Абылгазинова С.Н.
9	Устройство для раннего выявления диабета на основе анализа электрокардиограммы		Patent of the Republic of Kazakhstan for an Invention № 38138, 2025		Алимбаев Ч. А. Ожикенов К. А. Карибаев К. Р. Орынбай Ж. С. Игембай Е. А. Шылмырза Ұ. Ж. Даниялов М. С. Нұрданәлі А.
10	Способ нейросетевого анализа состояния сердца		Eurasian Patent for an Invention № 043917, 2023		Ожикенов К.А. Бодин О.Н. и др.

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10	Architecting the Orthopedical Clinical AI Pipeline: A Review of Integrating Foundation Models and FHIR for Agentic Clinical Assistants and Digital Twins	Review	Algorithms (MDPI), 2026, Vol. 19, No. 2, Article 99. https://doi.org/10.3390/a19020099	(2025) JIF 2.6,	ESCI	(2025) CiteScore 5.4, Computer Science: Computational Theory and Mathematics- 77 % percentileperce ntile	Boltaboyeva A., Baigarayeva Zh., Imanbek B., Amangeldy B., Tasmurzayev N., Ozhikenov K., Alimbayeva Zh., Alimbayev Ch., Karymsakova N.	Co-author
11	Non-Imaging Differential Diagnosis of Lower Limb Osteoarthritis: An Interpretable Machine Learning Framework	Article	Algorithms (MDPI), 2026, Vol. 19, No. 1, Article 87. https://doi.org/10.3390/a19010087	(2025) JIF 2.6,	ESCI	(2025) CiteScore 5.4, Computer Science: Computational Theory and Mathematics- 77 % percentileperc entile	Baigarayeva Zh., Boltaboyeva A., Imanbek B., Amangeldy B., Tasmurzayev N., Ozhikenov K., Ozhiken A., Alimbayeva Zh., Maeda-Nishino N.	Co-author
12	Self-supervised learning with BYOL for anterior cruciate ligament tear detection from knee MRI	Article	MethodsX (Elsevier), 2025, Vol. 15, Article 103664. https://doi.org/10.1016/j.mex.2025.103664	(2025) JIF 2.9,	ESCI	(2025) CiteScore 4.3, Multidisciplinary: Multidisciplinary - 80% percentileperc entile	Aidarkhan A., Mukhamediya A., Askhatova A., Beisembekova R., Alimbayeva Zh., Ozhikenova A., Ozhikenov K., Jamwal P. K.	Co-author

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11	Программное обеспечение для визуализации и оценки результатов трехмерной реконструкции коленного сустава		Computer Programs (Software) №76789, 22.07.2026		Бекболат А.Б., Асхатова А., Алимбаев Ч.А., Айдархан А.А., Ожикенов К.А.
12	Программное обеспечение для трехмерной реконструкции коленного сустава на основе vision transformer		Computer Programs (Software) №76670, 20.07.2026		Ниеткалиев А.С., Айдархан А.А., Бекболат А.Б., Алимбаев Ч.А., Ожикенов К.А.
13	Программа предварительной обработки 3d медицинских изображений коленного сустава		Computer Programs (Software) №76669, 20.07.2026		Ниеткалиев А.С., Бекболат А.Б., Айдархан А.А., Алимбаев Ч.А., Ожикенов К.А.
14	Автоматизированная программная система обучения и валидации модели vision transformer		Computer Programs (Software) №76618, 17.07.2026		Ниеткалиев А.С., Айдархан А.А., Асхатова А., Алимбаев Ч.А., Ожикенов К.А.
15	Адаптивная цифровая платформа раннего скрининга сахарного диабета 2 типа		Computer Programs (Software) №74722, 11.06.2026		Алимбаев Ч.А.
16	Интеллектуальная система анализа ЭКГ-сигналов для выявления сахарного диабета		Computer Programs (Software) №74449, 09.06.2026		Алимбаев Ч.А.
17	Мамандық таңдау бойынша ұсыныстар беретін талапкерлерге арналған мобильдік қосымша		Computer Programs (Software) №71401, 04.05.2026		Қанатбек М.Б., Оңласын Н.Р., Әлдешова Д.Е.,

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					Мукеева Г.И., Абуова Ж.Қ.
18	Веб-приложение для раннего выявления диабета второго типа посредством анализа данных		Computer Programs (Software) №70570, 21.04.2026		Бауыржанқызы А., Абибуллаева У.Н., Мамырхан С.Б., Калдыбаева А.С., Бейбитжан М.Б.
19	Способ прогнозирования исходов реабилитации и риска осложнений у пациентов после эндопротезирования коленного сустава		Literary Work №69623, 07.04.2026		Әбілда Е.М., Набиев Е.Н., Джумабеков А.Т., Досмаилов Б.С., Ожикенов К.А., Ожикенова А.К., Алимбаев Ч.А.
20	Алгоритм дистанционного контроля реабилитации пациентов после эндопротезирования коленного сустава		Literary Work №69110, 27.03.2026		Набиев Е.Н., Досмаилов Б.С., Әбілда Е.М., Джумабеков А.Т., Ожикенов К.А., Алимбаев Ч.А., Ожикенова А.К., Кеңесбай Ә.Е.
21	Способ дистанционной реабилитации пациентов после эндопротезирования коленного сустава		Literary Work №68800, 17.03.2026		Набиев Е.Н., Әбілда Е.М., Досмаилов Б.С., Джумабеков А.Т., Ожикенов К.А., Алимбаев Ч.А., Ожикенова А.К.

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22	Интеллектуальная платформа реабилитации в ортопедии с модулем предиктивной аналитики		Компьютерлік бағдарламалар (бағдарламалық қамтамасыз ету) №68336, 05.03.2026		Тұрмаханбет Д.Н., Ожикенов К.А., Ожикенова А.К., Алимбаев Ч.А., Әбілда Е.М., Джумабеков А.Т., Набиев Е.Н., Досмаилов Б.С.
23	Отслеживание частоты сердечных сокращений и мышечной активности во время упражнений с использованием ppg-датчика max30102 и датчика мышечной активности dfrobot sen0213 на базе esp32		Computer Program №58198, 19.05.2025		Қарасаева А.А., Иманбек Б.Т., Карымсакова Н.Т., Болтабоева А.К., Байғараева Ж.Е., Айтказин М.Қ., Тұрмаханбет Д.Н., Мауленбеков М.А., Кахаров А.А., Талантбек Б., Ожикенов К.А., Ожикенова А.К., Айдарова Т.Н.
24	Устройство для мониторинга сердечного ритма и вариабельности сердечного ритма в реальном времени на основе PPG-датчика MAX30102 и одноплатного компьютера Raspberry Pi Zero 2 W		Computer Program №58003, 14.05.2025		Айтказин М.Қ., Иманбек Б.Т., Болтабоева А.К., Байғараева Ж.Е., Тұрмаханбет Д.Н., Мауленбеков М.А., Бектурганова А.Б.,

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					Карымсакова Н.Т., Ожикенов К.А., Айдарова Т.Н., Бейсембекова Р.Н., Ожикенова А.К., Баймбетов Д.А., Алимбаев Ч.А., Жусупов Р.Р.
25	Устройство для мониторинга сердечного ритма в реальном времени для отслеживания движения мышцы с использованием микроконтроллера ESP32 и датчика DFRobot SEN0213		Computer Program №57173, 24.04.2025		Айтказин М.Қ., Ожикенов К.А., Иманбек Б.Т., Болтабоева А.К., Тұрмаханбет Д.Н., Мауленбеков М.А., Айдарова Т.Н., Байғараева Ж.Е., Бейсембекова Р.Н.,
Articles published in other scientific journals and publications					
26	ROI-SSIM Guided Framework for 3D Knee MRI Reconstruction under Artifact Degradation	Электронный	SSRN Electronic Journal. – 2026. – 13 p. DOI: https://doi.org/10.2139/ssrn.7067702	3	Bekbolat A., Askhatova A., Niyetkaliyev A., Jamwal P., Ozhiken A. (Ozhikenov K.), Beisembekova R., Igembay Y.

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International scientific and practical conferences					
27	Using The Machine Learning Method in Portable ECG Monitoring System to Identify Diagnostically Complex Heart Diseases		International Conference of Young Specialists on Micro/Nanotechnologies and Electron Devices, EDM, (Scopus). 2023, June. C. 1270–1275.	6	Ozhikenov K. A. Yerkebay, A.K., Alimbayev, C.A., Bayanbay, N.A.,
28	Intelligent Greenhouse Microclimate Control System Based on Morphological Analysis of Plants Using Machine Learning and IoT		Proceedings of the International Conference on AI and Robotics (AIR 2025), Lecture Notes in Networks and Systems, Vol. 1629, Springer, pp. 458–469, 2025.DOI: https://doi.org/10.1007/978-3-032-05548-4_36	12	Ozhikenov K. A. Ch. Alimbayev, S. Sydykanov
29	An Intelligent System for Automated Monitoring and Control of Patient Conditions		Proceedings of the International Conference on AI and Robotics (AIR 2025), Lecture Notes in Networks and Systems (LNNS), vol. 1628, 2025	11	Mukano, M., Ozhikenov K. A. Alimbayev, C., Ozhikenov, K., Nazarova, E.
30	Device for Determining the Sensitivity of the Oral Cavity		2025 IEEE XVII International Scientific and Technical Conference on Actual Problems of Electronic Instrument Engineering (APEIE), IEEE . DOI: https://doi.org/10.1109/APEIE66761.2025.11289279	6	Alimbayev Ch., Ozhikenov K., Bayanbay N., Abylgazinova S., Nurdanali A.
31	Subject-Independent Motor Imagery EEG Classification for Portable BCI Using a Lightweight EEGNet-Lite Model		2026 IEEE 20th International Conference on Control and Automation (ICCA), 2026. https://doi.org/10.1109/ICCA69928.2026.11618096		Y.Tuimebay, Ch. Alimbayev, K.Ozhikenov

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32	3D polarimetry of laser induced speckle fields for phase detection thyroid gland polycrystalline structure and traumatic necrosis of human internal organs		Proceedings of SPIE - The International Society for Optical Engineering, 2024, Vol. 13400, Article 1340006. https://doi.org/10.1117/12.3054868		O. Ushenko, O. Bilookyi, Y. Ushenko,
Monographs, textbooks					
33	«Интеллектуальная ЭКГ-диагностика дисгликемии»	In print and electronic formats	Almaty: LLP «Lantar books», 2026. – 191 p.	191	Алимбаева Ж.Н.
34	«Мультимагнитные системы в медицине»	In print and electronic formats	Almaty: LLP «Lantar books», 2026. – 256 p.	256	Алимбаева Ж.Н., Ожикенова А.К., Алимбаев Ч.А., Ожикенов К.А., Бейсекосова Р.Н.
35	«Помехозащищённая обработка кардиосигналов»	In print and electronic formats	Almaty: LLP «Lantar books», 2026. – 215 p.	215	Ожикенова А.К., Алимбаева Ж.Н., Ожикенов К.А.
36	«Инвазивті емес кардиодиагностикалық жүйе. Электрокардиография»	In print and electronic formats	Almaty: LLP «Lantar Trade», 2023. – 257 p.	257	Алимбаева Ж.Н., Ожикенова А.К.

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