

MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE REPUBLIC OF KAZAKHSTAN
KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY named after K. I. SATBAYEV

List of scientific papers in international peer reviewed
scientific journals, included in Scopus and Web of Science databases
Sarsenbayev Yerlan Aliaskarovich

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Scopus Author ID: 57979875600 (58752852500)

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№	Publication title	Publication type	Journal name, year of publication, DOI	Journal Impact Factor, Quartile and Field of Science according to Journal Citation Reports for year of publication	Index in the Web of Science Core Collection	Journal CiteScore, percentile and field of science according to Scopus for year of publication	NAME of the authors (co-applicant to underline)	Role of the Challenger
1	2	3	4	5	6	7	8	9
1	A New Approach for Failure Modes, Effects, and Criticality Analysis Using ExJ-PSI Model—A Case Study on Boiler System	Article	Applied Sciences (Switzerland), 2022, 12(22), 11419 https://doi.org/10.3390/app122211419	IF 2.7 Engineering, multidisciplinary - Q2	SCIE	CiteScore = 4.5; General Engineering – 75% percentile	Suyog S.S. Patil, Anand K. K. Bewoor, Rajkumar B. B. Patil, Ravinder Kumar, Bulbul Ongar,	co-author

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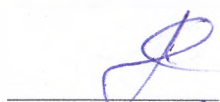
Author

Deputy Director of the Department of Strategic Development

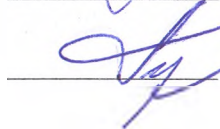
Chief Scientific Secretary



Y. A. Sarsenbayev



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							Yerlan Sarsenbayev, Seepana Praveen Kumar, Ahmed Mohamed Mahmoud Ibrahim, Mohammad S. S. Alsoufi, Ammar Elsheikh	
2	Use of absorber plate built of ZnO/PVC/Bioactivation modified epoxy nanocomposites to improvement of double-effect Solar Distiller productivity analyzing the Energy, Exergo-environment and Enviro-economical.	Article	Journal of Cleaner Production 2024, 434, 139601	(2023), IF 11.1 Engineering, Environmental – Q1	(2023) SCIE	CiteScore = 20.7; Renewable Energy, Sustainability and the Environment – 93% percentile	Ravinder kumar, Ashish Maurya, S. Shanmugan, Abd-Elnaby Kabeel, Zhumatova Assel Akanovna, <u>Yerlan Sarsenbayev</u> , Hitesh Panchal	co- author
3	Thermodynamic analysis on CSP integrated cerium oxide ($\text{CeO}_2 - \text{CeO}_{1.72/1.83}$) water splitting cycle for hydrogen production	Article	International Journal of Hydrogen Energy 2024, 53, ст 1259–1268	(2023) IF 8.1 Energy and fuels – Q1	(2023) SCIE	CiteScore = 13.3; Energy Engineering and Power Technology – 91% percentile	Jeet Prakash Sharma, Ravinder Kumar, Mohammad H. Ahmadi, Jan Najser, Vojtech Blazek, Lukas Prokop, Zhumatova Assel Akanovna, <u>Yerlan Sarsenbayev</u>	co- author
4	Numerical analysis on inlet position and orientation for	Article	Journal of Thermal Analysis and	(2023) IF 3.0	(2023) SCIE	CiteScore 7.7	Jeet Prakash Sharma, Ravinder Kumar,	co- author

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	enhanced thermal performance of a solar thermochemical reactor for two-step WS cycle for hydrogen production		Calorimetry. T 149, B 15, C 8409 – 8429. 2024	Thermodynamics – Q2		Condensed Matter Physics – 85% percentile	Mohammad H Ahmadi, Zhannat Bekbolatova, <u>Yerlan Sarsenbayev</u> , Jan Najser, Vojtech Blazek, Lukas Prokop	
5	Control of hydrogen leaks from storage tanks and fuel supply systems to mining transport infrastructure facilities	Article	International Journal of Hydrogen Energy. T 95, C 212 – 216. 2024	(2023), IF 8.1 Energy & fuels - Q1	(2023) SCIE	CiteScore 13.3 Energy Engineering and Power Technology – 91% percentile	S.I. Kondratyev, D. Baskanbayeva, K. Yelemessov, E.V. Khekert, V.E. Privalov, <u>Y. Sarsenbayev</u> , V.A. Turkin	co-author

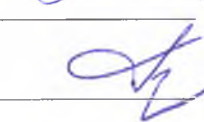
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List of scientific works
Sarsenbayev Yerlan Aliaskarovich

№	Title	Nature of the edition	Output data	Number of pages	Co-authors
1	2	3	4	5	6
Articles in publications recommended by the Committee for Quality Assurance in Education and Science of the Ministry of Science and Higher Education of the Republic of Kazakhstan					
1	Mathematical methods for calculating stable operating modes of electrical networks based on transformation ratios (article).	Printed	Vestnik KazATK, 124(1) (2023) St. 339-348 https://doi.org/10.52167/1609-1817-2023-124-1-339-348	9	B. Ongar, G. Smagulova, A. Baimaganov, E. Seitbek
2	Study of the main factors that reduce the energy performance of sucker rod pumps and the selection of a basic modification based on an intelligent algorithm (article).	Printed	KazATK Bulletin, (2023). 127(4). St 491-505 https://doi.org/10.52167/1609-1817-2023-127-4-491-505	14	K. Elemesov, B. Baybutanov, D. Baskanbaeva, B. Ongar
3	Stationary regimederdi esepeteude elektro zhelilerinin regimederin modeldeu zhane ontaylandyru (article).	Printed	BULLETIN of Toraigyrov University Energy series. No. 2 (2023) Art. 247-259 ISSN 2710-3420 https://doi.org/10.48081/NXIX3331	12	B. Ongar, G.K. Smagulova, E.A. Nurmadiyeva, HER. Seitbek

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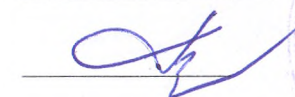
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4	Aerodynamic characteristics of a bladeless vortex windmill (article).	Printed	Vestnik KazATK, 128(5) 2023. St. 463-473 https://vestnik.alt.edu.kz/index.php/journal/article/view/1333	3	B. Ongar, A. Amanbaev
5	Review of promising technological solutions for the use of biogas (article).	Printed	KazATK Bulletin, (2024). 130(1). pp. 449-458. ISSN 1609-1817 (Print) https://vestnik.alt.edu.kz/index.php/journal/article/view/1636	5	B. Ongar, A.T. Egzekova, K.B. Kalymov, HER. Seitbek.
6	Intelligent diagnostics of the technical condition of bolted contact connections of electrical equipment (article).	Printed	Bulletin of Almaty University of Energy and Communications No. 4 (59) 2022. Article 17-27 https://vestnik.aues.kz/index.php/none/article/view/608	10	D. Rychkov, N.T. Kalikasov, N.K. Almuratova
7	Development prospects and analysis of wind power equipment	Printed	Toraygyrov University Khabarshysy. ISSN 2710-3420. Energy series. No. 3. From 60-74. 2023 https://doi.org/10.48081/VXWG4153	15	A.A. Bektasova, A.K. Ashimova, K.B. Shakenov
8	Electricity storage systems	Printed	Toraygyrov University Khabarshysy. ISSN 2710-3420. Energy series. No. 4. From 46-55. 2023 https://doi.org/10.48081/ZNDI9686	10	A. K. Ashimova, A. A. Bektasova, K. B. Shakenov
9	Review of promising methods for enhancing oil recovery	Printed	Vestnik KazATK, 133(4) 2024. pp. 419-428 DOI: https://doi.org/10.52167/1609-1817-2024-133-4-419-428	10	M. Umysheva, K. Tergemes, G. Akimbek, D. Umyshev,
10	Calculation of the choice of uninterruptible DC power supplies for substation switchgears	Printed	Vestnik KazATK, 133(4) 2024. pp. 450-458 DOI: https://doi.org/10.52167/1609-1817-2024-133-4-450-458	8	E. Eleukenov
11	Engineering analysis of structural elements of a low-power wind power plant	Printed	Vestnik KazATK, 136(1) 2025. pp. 492-501	10	K. Shakenov, A. Bekbaev,

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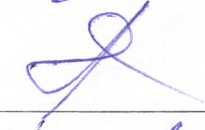
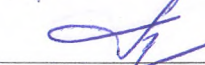
			DOI: https://doi.org/10.52167/1609-1817-2025-136-1-492-501		E. Hidolda, Zh. Bekbolatova
12	Study of gas flow processes in new water tube boilers with a capacity of 5.1 and 7.1 MW	Printed	Vestnik KazATK, 137(2) 2025. pp. 522-531 DOI: https://doi.org/10.52167/1609-1817-2025-137-2-522-531	11	K. Elemesov, D. Umyshev, M. Umysheva
Patents					
13	Method for protecting an inverter system from surge voltages (utility model)	Printed	Patent of the Republic of Kazakhstan No. 8290, Bulletin date 07/21/2023, Bulletin. No. 29.	4	S.A. Minazhova, A.B. Bekbaev, M.A. Demeuov
14	Hydroelectric power generation system	Printed	Eurasian patent No. 046299. September 21, 2023	6	K.K. Elemesov, D.D. Baskanbaeva, S.A. Bortebaev, N.K. Aubakirova
Monographs, textbooks and teaching aids					
15	Clean Coal Technologies (Monograph)	Printed	KazNRTU named after K.I. Satpayeva - Almaty: 2023 – 436 pp. ISBN 978-601-325-349-7	436	B. Ongar, A.K. Mergalimova.
16	A set of problems on heat exchange and heat exchange devices (Textbook)	Printed	K. I. Kazakh National Technical Research University named after Satpaev publication T. "Polytech" publishing center named after Keneyev. - Almaty: KazUTZU publication, 2023. -296 pages. ISBN 978-601-323-506-6	296	B. Ongar, A.S. Nygymanova, G.K. Smagulova

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