PERSONAL INFORMATION

Nussupbekov Bekbolat

Republic of Kazakhstan, Karaganda city, Universitetskaya str., 28

bek_nr1963@mail.ru

https://publons.com/researcher/1837488/bekbolat-nussupbekov/

| Date of birth: 17/04/1963 y.

PLACE OF WORK, POSITION

Karaganda University named after Academician E.A. Buketov, Faculty of Physics and Technology, Department of Engineering Thermophysics named after prof.Zh.S.Akylbayev, Professor

SCIENTIFIC DEGREE, SCIENTIFIC TITLE (ACADEMIC DEGREE)

Candidate of Technical Sciences, Professor of the Higher Attestation Commission

WORK EXPERIENCE

Place and date

- 1985-1991 Engineer of the Department of automation of steelmaking production and Engineer-constuctor of the third and second category of the Department of development of metallurgical processes of the OPKB NPO "Chermetavtomatika".
- 1991 Senior researcher at the Laboratory "Hydrodynamics and Heat Transfer" of the Academician E.A. Buketov KarSU
- 1991-1998 Lecturer of the Department of Thermophysics and the Department of Solid State of the KarSU named after Academician E.A. Buketov.
- 2004-2007 Deputy Dean for Academic Affairs, Associate Professor of the Department of Thermophysics of Academician E.A. Buketov KarSU
- 2007-2011 Associate Professor of the Department of Engineering Thermophysics of Academician E.A. Buketov KarSU
- 2011-present Professor of the Department of Engineering Thermophysics named after Zh.S. Akylbayev.
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EDUCATION AND PROFESSIONAL TRAINING

Education

- 1980-1985 Student of Karaganda State University, Karaganda
- 1985-1991 Engineer of the Department of Automation of steelmaking production and Engineer-constuctor of the third and second category of the Department of Development of metallurgical processes of the OPKB NPO "Chermetavtomatika" ,
- 1991 Senior researcher of the laboratory "Hydrodynamics and Heat Transfer" of the Academician E.A. Buketov KarSU, Deputy Director of the research and production innovation small production "Hydrodynamics" the city of Karaganda
- 1991-1998 Lecturer of the Department of Thermophysics and the Department of Solid State of Academician E.A. Buketov KarSU
- 1998-1999 Deputy Dean of the Faculty of Physics of Academician E.A. Buketov KarSU
- 1999-2004 Senior Lecturer of the Department of Solid State Physics, Thermophysics and Associate Professor of the Department of Thermophysics of KarSU. Academician E.A. Buketov
- 2004-2007 Deputy Dean for Academic Affairs, Associate Professor of the Department of Thermophysics of Academician E.A. Buketov KarSU
- 2007-2011 Associate Professor of the Department of Engineering Thermophysics of Academician E.A. Buketov KarSU
- 2011-2019 Dean of the Faculty of Physics, then the Faculty of Physics and Technology of the Academician E.A. KarSU, Professor of the Department of Engineering Thermophysics named after Zh.S. Akylbayev
- 2019-2021 Acting Vice-Rector and Vice-Rector for Academic Affairs of Academician E.A. Buketov KarSU
- 2021 Professor of the Department of Engineering Thermophysics named after Zh.S. Akylbayev

Professional trainings, Scientific trips

- Certificate from the Ministry of Education and Science of the Republic of Kazakhstan and the World Bank "Improvement of the National University Entrance Test" (March-June, 2010);
- 2) Tomsk Polytechnic University (scientific internship, 2011)
- 3) Certificate Forparticipationin Fifth International Scientific Conference FMNS-2013 (Blagoevgrad, 2013);
- 4) Electric Pulse Method of Rock Crushing, For participation in the Fifth International Scientific Conference FMNS-2013. South-West Universiti Bulgaria. Certificate 16.06.2013.
- 5) Energy for our future: Green energy, Certificate. 20.12.2014, KarSU
- 6) In the period from 03.09.2018 to 27.09.2018, a course on "The current problems of modern electronics and nanotechnologies" was attended as part of the guest lectures of PhD Mitko Stoev, associate professor of the Southwestern University "Neofit Rylsky" (Bulgaria, Blagoevgrad).
- 7) The program of legal comprehensive education on the topic "Labor legislation, safety and labor protection". The course was conducted by specialists of the RSE "Republican Research Institute for Occupational Safety Ministry of Health and Social Development of the Republic of Kazakhstan" (KarSU, Karaganda, 2018).
- 8) Tomsk National Research University (scientific internship, 2022)

SKILLS DEVELOPMENT INFORMATION

- February 4-12, 2013 – Thomson Reuters online seminars (on basic capabilities);
- March 25-29, 2013 - Thomson Reuters online seminars (on advanced capabilities);
- Coursera MTTTPYTDM3CF "Electric Power Systems" University of Buffalo from 06.10.2021
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NATIVE LANGUAGE **Kazakh**

LANGUAGE	UNDERSTANDING		SPEAKING		WRITING
	Hearing	Reading	Oral speech	Written speech	
Russian	In perfection	In perfection	In perfection	In perfection	In perfection
	LANGUAGE CERTIFICATE: no				
English	With a dictionary	With a dictionary	With a dictionary	With a dictionary	With a dictionary
	LANGUAGE CERTIFICATE: no				

Digital skills ADVANCED USER: MICROSOFT OFFICE (WORD, EXCEL, POWERPOINT), GRAPHIC EDITORS (CORELDRAW, ADOBE PHOTOSHOP, KNOWLEDGE OF OPERATING SYSTEMS: WINDOWS

ADDITIONAL INFORMATION

Training of scientific and pedagogical personnel

1) Shaimerdenova Kulzhan Meiramovna – Candidate of Technical Sciences in the specialty "Electrotechnology" (2011)
2) Khasenov Ayanbergen Kayyrbekovich - Doctor of Philosophy PhD in the specialty 6D060400- Physics (2015).
3) Karabekova Dana Zhilkibaevna Doctor of Philosophy PhD in the specialty 6D060400- Physics (2017)
4) Dyusembayeva Ainur Nurtayevna, Doctor of Philosophy PhD in the specialty 6D060400- Physics (2022)

Main publications

1. K. Kusaiynov, B.R.Nusupbekov, S.E.Sakipova, N.N.Shuyushbayeva, A.K.Khasenov. Investigation of the wear of the metallic part of electrode system of electrohydraulic drill // Metallofizika i Noveishie Tekhnologii. – Kiev. 2015.– Vol.37. №3.– P. 397-407. (Scopus, SJR-0,208).
2. Kuritnik I., Nussupbekov B.R., Khassenov A.K., Karabekova D.Zh. Disintegration of copper ores by electric pulses. Archives of Metallurgy and Materials.–Krakow. 2015.– Vol.60. – №4. – pp.2449-2551. DOI:10/1515/amm-2015-0412.
3. Kussaynov K., Nussupbekov B.R., Shuyushbayeva N.N. Microstructural analysis of the positive electrode of electrohydraulic drill// Technical Physics.– 2015.– Vol.60. No.12. – pp. 1884-1886.
4. Kussaynov K., Nussupbekov B.R., Tanasheva N.K. Numerical simulation of a flow past a triangular sail-type blade of a wind generator using the ANSYS FLUENT software package// Technical Physics.– 2016.– Vol.61. No.2. – pp. 299-301. (Scopus – 0.467, Thomson Reuters-0.583
5. Nussupbekov B.R., Karabekova D. Zh. Khassenov A.K., Zhirnova O., Zyska T. Heat flow meter for the diagnostics of pipelines// Proceedings of SPIE - The International Society for Optical Engineering. – 2016. doi: 10.1117/12.2249304 (SCR-0.216)
6. Kusaiynov K., Nussupbekov B.R., Shaimerdenova K.M. On Electric-Pulse Well Drilling and Breaking of Solids// Technical Physics.– 2017.–Vol.62. No. 6.–pp.867-870
7. Nussupbekov B.R., Karabekova, D.Z., Khassenov A.K. Thermal Methods and Non-Destructive Testing Instrumentation. Measurement Techniques. – 2016.–Vol.59. No.6. – pp. 644-648 (Thomson Reuters, IF-0.29).
8. Kurytnik I.P., Nussupbekov B.R., Karabekova D.Zh., Khassenov A.K., Kazhikenova A.Sh. Investigation of a crushing and grinding unit of an electropulse installation. Archives of Foundry Engineering. – 2018. – Vol.18. Issue 1. – pp. 61-64 (SGR-0.263).
9. Nussupbekov B.R., Khassenov A.K., Karabekova D.Zh. Stoev M., Beysenbek A.Zh., Kazankap B.I. Electrohydraulic ragging of metallurgical silicon. Bulgarian Chemical Communications. – 2018. – № 50. – Special Issue B. – P. 29 – 31.
10. Tanasheva, N. K, Nusupbekov, B. R., Dyusembaeva, A. N., Shuyushbayeva, N. N. Analysis of Aerodynamic Characteristics of Two Parallel Rotating Cylinders// Technical Physics.– 2019.– Vol.64. No.7. – pp. 947-949. (0,5 п.л) (23%) Q4
11. Kurytnik, I.P., Nussupbekov, B.R., Khassenov, A.K., Karabekova, D.Z., Tanasheva, N.K. About an electric pulse method of grinding gold ore//Przeglad Elektrotechniczny. – 2020.–№96(10).–P.148–150. (0,3 п.л) (22%) Q4. **DOI:** 10.15199/48.2020.10.27
12. Kazhikenova S.Sh., Shaltakov, S. Nussupbekov B.R.,Difference melt model// Archives of Control Sciences.– 2021.– Vol. 31(LXVII).– №3.– P.607-627. (1,1 п.л) (64%) Q3
13. Karabekova D. Zh., Kissabekova P., NUSSUPBEKOV B., Khassenov A. K. Analysis of the Insulation State of Underground Pipelines in the Heating Network// Thermal Engineering.–2021.–Vol.68.–P.802–805. 0,5 п.л. (42%). **DOI:** 10.1134/S0040601521100013.
14. Kazhikenova S.Sh., Shaltakov, S. NUSSUPBEKOV B.R. Difference melt model// Archives of Control Sciences.– 2021.– Vol. 31(LXVII).– №3.– P.607-627. Q2
15. Oshanov Y, Ovcharov M., NUSSUPBEKOV B. The influence of inertial forces on the flow rate and velocity of the fluid through the throttle bores of the rotor// Heat Transfer Research. – 2022.–№53(14). – P.1–8. DOI: 10.1615/HeatTransRes.2022038753
16. NUSSUPBEKOV, B., Khassenov,A. and eat Development of technology for obtaining coal-water fuel// Eastern-European Journal of Enterprise Technologies, 2022, 3(8-117), стр. 39–46 [Scopus:48%]
17. Kurytnik, I.P., Khassenov, A.K., Nussupbekov, U.B., NUSSUPBEKOV, B.R., Bolatbekova, M. Development of a grinding device for producing coal powder-raw materials of coal-water fuel// Archive of Mechanical Engineering, 2022, 69(2), стр. 259–268 [Scopus: 36%]
18. NUSSUPBEKOV,B.R., Sakipova, S.E., Edris, A., Nussupbekov, U.B., Bolatbekova, M. Electrohydraulic method for processing of the phosphorus containing sludges// Eurasian Physical Technical Journal, 2022, 19(1), стр. 99–104. [Scopus: 20%]
19. NUSSUPBEKOV B.R Khassenov, AK; Karabekova, D.Z. Bulkairova G.A., Shashubai B.U., Bolatbekova, MM Electric pulse method of processing cullet//Bulletin of the University of Karaganda-Physics.– 2022.– №1 (105).– P.75-80 DOI: 10.31489/2022PH1/75-80

Patent or copyright certificate of the Republic of Kazakhstan

20. *Ovcharov M.S., Oshanov E.Z. NUSUPBEKOV B.R., Device for heating liquid//Patent of the Republic of Kazakhstan for invention No. 34918 dated 24.01.2020, byul. No.13.*
21. *Kartbaeva G.T., NUSUPBEKOV B.R., Khasenov A.K., Nusupbekov U.B., Karabekova D.Zh., Zholdasbek E.A. Installation for the production of biogas and biofertilizer from organic waste//RK patent for utility model No. 2022/0151.2 dated 02/24/2022 byul.No. 13*
22. *NUSUPBEKOV B.R., Nusupbekov U.B., Khasenov A.K., Karabekova D.J. Electrohydraulic method of crushing ores and coal//Patent of the Republic of Kazakhstan for utility model No. 2022/0317.2 dated 13.04.2022 byul.№ 20.*
23. *6 patents in the Derwent Clavate Analytics Innovation Index database*

Participation in the implementation of scientific projects

1) "Development and manufacture of electrohydraulic plant for crushing and grinding of wollastonite ore "EGU-B1" (state registration no. 0105RK00040, for applied scientific research for 2004-06) - responsible executor;
2) "Development and manufacture of electrohydroimpulse plant for crushing and grinding of quartz mineral "EGU-KC1" (state registration no. 0107RK00016, on risky scientific research for 2006) – responsible executor;
3) "Physics of electrohydraulic and turbulent phenomena in multicomponent gas–liquid mixtures" (State Registration No. 0105RK00529 on fundamental programs for 2006-2008) - responsible executor;
4) "Development of technology for burning coal-water fuel obtained by electrohydroimpulse treatment from Shubarkul coal sludge" Head of the funded research topic of the Ministry of Education and Science of the Republic of Kazakhstan No. 1776/GF4-15-OT, (2014-2015)
5) Co-director of the funded research topic "Electric pulse technology for extracting rare metals from metal-containing and man-made raw materials" of the Ministry of Education and Science of the Republic of Kazakhstan No. 0112RK00667 (2012-2014).
6) Executor of the IRN project No. AR05131520 "Development and creation of a prototype wind power plant for alternative power supply using a domestic-made electric generator. KN MES RK (2018-2020)
7) Head of the IRN project No. AR14870483 "Creation of an energy-saving installation to improve the efficiency of heat transfer of industrial heat exchangers" 2022-2024 KN MES RK

Awards and titles

– Holder of the title "Best University teacher - 2010"
– Holder of the title "Best University teacher - 2021"..

Courses

1. Fundamentals of measurement uncertainty theory;
2. Destruction of materials by underwater electric explosion;
3. Methods of scientific research;
4. Methods of heat transfer intensification
5. Physics of rheological fluids

Professional and scientific interests

– Physics,
– Energy
– Physics of pulsed and heat and mass transfer phenomena in heterogeneous liquids and its applications to new technologies

SCIENTIFIC DATABASES IDENTIFIERS

1) **Clarivate Analytics (ISI Web of Knowledge) - Researcher ID:** U-5830-2018
https://publons.com/researcher/1837488/bekbolat-nussupbekov/
2) **Scopus Scopus ID:**56289675900
https://www.scopus.com/authid/detail.uri?authorId=56289675900
3) **ORCID ID:** 0000-0003-2907-3900
https://orcid.org/0000-0003-2907-3900
4) **РИНЦ PIN-код** 3239-5301
https://elibrary.ru/author_items.asp?authorid=623016&show_refs=1&show_option=1
5) **GoogleScholar (Google Academy)**
https://scholar.google.com/citations?hl=ru&user=WQctDa0AAAAJ
6) **ResearchGate** https://www.researchgate.net/profile/Bekbolat-Nussupbekov

The Hirsch index based on Scopus – 3.
The Hirsch index based on Clarivate Analytics – 4.
The Hirsch index based on RSCI – 5.
The Hirsch index based on Google Scholar – 6.