

## PERSONAL INFORMATION



### Khasenov Ayanbergen Kairbekovich

📍 Republic of Kazakhstan, Karaganda city, ul. University, 28, KarU named after academician. A. Buketov  
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| Date of birth: 19/07/1983....

## PLACE OF WORK, POSITION

KarU named after Academician E. A. Buketov, Associate Professor of the Department of Engineering Thermophysics named after Professor Zh. S. Akylbayev

## SCIENTIFIC DEGREE, SCIENTIFIC TITLE (ACADEMIC DEGREE)

Doctor of Philosophy (PhD), specialty 6D060400-Physics, Associate Professor in Physics

## WORK EXPERIENCE

### Place and date

-2005-2009-Engineer of the Department of Thermophysics of the E. A. Buketov KarSU  
-2009-2014-Senior Lecturer of the Department of Thermophysics of the E. A. Buketov KarSU  
since 2016, Associate Professor of the Department of Engineering Thermophysics named after Professor Zh. S. Akylbayev of the E. A. Buketov KarSU

## EDUCATION AND PROFESSIONAL TRAINING

### Education

- 2000-2005 – Karaganda state University named after academician E. A. Buketov, physical faculty, Department of "Physics", specialty "physics", qualification – engineer physicist
- 2009-2011 – Karaganda state University named after academician E. A. Buketov, physical faculty, Department "Engineering Thermophysics. J. S. akylbaeva" specialty "Technical physics", qualification of master of science and technology
- 2012-2015-Karaganda State University named after Academician E. A. Buketov, Faculty of Physics and Technology, Department of "Engineering Thermophysics named after Zh. S. Akylbayev", specialty - "6D060400-Physics", degree-Doctor of Philosophy (PhD) in the specialty 6D060400-Physics

- **Professional trainings, Scientific trips**
- July 12-28, 2017-research trip to Tomsk State University (Tomsk);
- June 12-27, 2017-research trip to the Southwestern University "Neofit Rila" (Blagoevgrad, Bulgaria).

**SKILLS DEVELOPMENT INFORMATION**

- October 2-14, 2017-Professional and pedagogical qualification improvement on the topic: Methods of heat transfer intensification, Tomsk State University (Tomsk);
- □ from October 4 to November 2, 2020 - a study of the wear of the electrodes of the electric pulse plant for crushing and grinding ores, S. Amanzholov VKU (Ust-Kamenogorsk).

**PERSONNEL QUALITIES**

**Native language** **Kazakh**

LANGUAGE	UNDERSTANDING		SPEAKING	WRITING
	Hearing	Reading	Oral speech	
<b>Russian</b>	in perfection	in perfection	in perfection	in perfection
<b>English</b>	<b>AVAILABILITY OF A LANGUAGE CERTIFICATE: NO</b>			
<b>German</b>	<b>AVAILABILITY OF A LANGUAGE CERTIFICATE: NO</b>			
<b>Spanish</b>	-			
<b>French</b>	-			

**Digital skills** ADVANCED USER: MICROSOFT OFFICE (WORD, EXCEL, POWER POINT). KNOWLEDGE OF OPERATING SYSTEMS: WINDOWS

**Other skills (hobbies)** travel, running, cycling

**ADDITIONAL INFORMATION**

1. 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 (Scopus, Процентиль - 45).
2. 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. - Vol. 50. Issue B. - P. 29-31.
3. K. Shaimerdenova, B. Nussupbekov, G. Bulkairova, M. Stoev, A. Khassenov, D. Karabekova. Electrohydropulse method for destruction of natural minerals. Bulgarian Chemical Communications. – 2020. – Vol. 52, Issue A. – P. 185-187(CiteScore- 0,4; SJR - 0.142; SNIP 2019 – 0,232; процентиль – 13). DOI: 10.34049/bcc.52.A.192
4. I.P. Kurytnik, B.R. Nussupbekov, A.K.Khassenov, D.Z. Karabekova, N.K.Tanasheva. About an electric pulse method of grinding gold ore. PRZEGLĄD ELEKTROTECHNICZNY. – 2020. - №10. - P. 148-150 (CiteScore- 0,8; SJR - 0.213; SNIP 2019 – 0,449; процентиль – 21).
5. Nussupbekov B., Khassenov A., Nussupbekov U., Akhmediyev B., Karabekova D., Kutum B., Tanasheva N. Development of technology for obtaining coal-water fuel // Eastern-European Journal of Enterprise Technologiethis link is disabled, 2022, 3(8-117), 39–46 (Scopus, Engineering, 45%, Citations - 1). DOI:[10.15587/1729-4061.2022.259734](https://doi.org/10.15587/1729-4061.2022.259734)

#### Main publications

*Patents included in the Web of Science Core Collection database:*

EA34112-B1 Flow water disinfection device used for agricultural field has pulse current generator, air gap discharger to reduce bacterial contamination in water, reflector as paraboloid made of steel and negative electrode as cylinder made of copper. Shajmerdenova K.M, Boltaev N.K, Khassenov A.K., Kutum B.B. Derwent Primary Accession Number: 2020-129696. Indexed: 2020-02-26. <https://www.webofscience.com/wos/diidw/full-record/DIIDW:2020129696>

K. Kussaiynov, B.R. Nussupbekov, K.M. Shaimerdenova, G.A. Bulkairova, A.K. Khassenov, U.B. Nussupbekov. Electro-impulse device for crushing and breaking crystalline silica, wollastonite ores and metallurgical silicon, has unevenly placed electrodes arranged along height of body for performing optimal allocation and discharging. Inventor(s). KZ24079-A4. 2019-36244E. <https://www.webofscience.com/wos/diidw/full-record/DIIDW:201936244E>

Kusaiynov K., Nusupbekov B.R., Sakipova S.E., Khassenov A.K., Nusupbekov A.B., Kusaiynova A. Electric pulse method of selective destruction of material in liquid used in mining industry and mineral processing, involves performing grinding by underwater spark discharges with specific energy at specific spark rate. KZ29005-A4, K2019-27749N. <https://www.webofscience.com/wos/diidw/full-record/DIIDW:201927749N>

#### Participation in the implementation of scientific projects

Project carried out by young scientists under the guidance of candidates and doctors of Science in scientific organizations of the Russian Federation in 2012 No. 12-08-90910 mol\_sng\_nr "The impact of electrohydroimpulse technology on the destruction of metallurgical silicon" (position-researcher);

Project carried out by young scientists under the guidance of candidates and doctors of Science in scientific organizations of the Russian Federation in 2015 No. 15-38-50842 "Research of metal-containing ore crushed by the electric pulse method" (position-researcher);

"Electric pulse technology for extracting rare metals from metal-containing and man-made raw materials" (state registration No. 0112RK00667, customer-MES RK; 2012-2014; position-researcher);

"Wind turbine for low wind speeds with dynamically variable blade surface shape". (State registration No. 0215RK01427 customer – MES RK; 2014-2016; position-researcher);

Highly efficient technology for processing mineral raw materials, industrial and household waste (No. 0607-F-23, customer – Ministry of Science and Higher Education of the Republic of Kazakhstan; 2022-2024; position -leading researcher)

#### Membership in professional scientific organizations

Editor-in-chief of the journal "Bulletin of Karaganda University. Physics Series"

#### Awards and titles

Winner of the title "Best University Teacher" (MES RK, 2016)

1. Organization and planning of scientific work in the Heat Power Industry
2. Technological measurements and devices
3. Technological measurements and automation systems
4. Methods of restoring Heat Exchangers

#### Courses

#### Professional and scientific interests

- thermophysics and theoretical heat engineering
- electro-pulse phenomena in heterogeneous media

#### SCIENTIFIC DATABASES IDENTIFIERS

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**Researcher ID:** O-8783-2017

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**RSCI:** 609019

**Author ID Scopus:** 56290307000