

**PERSONAL INFORMATION****KASSENOV RYMKHAN ZEINOLLAEVICH**

📍 Republic of Kazakhstan, Karaganda, st.University 28,  
KarSU named after E.A.Buketov

📧 r\_z\_kasenov@mail.ru

🗓 | Date of birth: 28.10.1963

**WORKPLACE,  
OCCUPATION**

KarU named after E.A.Buketov  
Associate professor of organic chemistry and polymer department

**ACADEMIC DEGREE,  
SCIENTIFIC TITLE  
(ACADEMIC TITLE)**

Candidate (PhD) of Chemical sciences

**WORK EXPERIENCE****PLACE and DATES**

-1986-1988 - engineer of the department of electrochemistry, laboratory «Physical-chemical research method» KarSU  
- February–December 1990 - engineer of SBAF laboratory «Institute of Organic Synthesis and Coal Chemistry» NAS RK  
- December 1993 – august 1997 senior researcher LLP «Institute of Organic Synthesis and Coal Chemistry» NAS RK  
- 1997- 2009 Associate Professor of the Departments of Botany, Zoology, Physical and Analytical Chemistry, KarSU named after E.A.Buketov  
- 2009- 2018 leading specialist of the laboratory of engineering profile "Physicochemical methods of research" KarSU named after E.A.Buketov  
- 2018- 2020 head of research institute «New Materials» Karaganda Technical University  
– from September 2020 until now - Associate Professor of the Department of Organic Chemistry and Polymers, KarSU named after E.A. Buketova.

**EDUCATION AND  
INTERNSHIPS****EDUCATION**

– 1981-1986 Karaganda state university, chemistry department, electrochemistry , specialty - «Chemistry», chemistry-«Educator»

- 1990 - 1993 - graduate student LLP «Institute of Organic Synthesis and Coal Chemistry» NAS RK

**INTERNSHIPS, SCIENTIFIC  
TRIPS**

– April - June 2011 scientific internship under an international program «Bolashaq» into «Novosibirsk Institute of Organic Chemistry» named after N.N.Vorozhcova SD RAS;  
– 2009- 2019 scientific trips on grant topics of the Science Committee and JSC "Science Fund" to the cities of Tomsk, Novosibirsk, Yekaterinburg.  
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**INTELLIGENCE ABOUT TRAINING**

- Certificate «General requirements for the competence of testing and calibration laboratories. Internal audit for compliance ST RK ISO/MEK 17075- 2007», 24-26 03.2011 (Almaty, LLP «KazInTR»);
- Certificate «Training of expert auditors to confirm the conformity of products and services», 18- 29 .05.2009 (Astana, LLP «Kazakhstan training and consulting center»);
- Certificate «General English», «IELTS», LLP «Astana School of Business and Technology» 20.04.2019- 24.10.2020 (Karaganda);
- Certificate «Learning Experience with Cisco Webex Platform», 08.06.-22.06.2020 KarTU (Karaganda);
- Certificate International Scientific and Practical Seminar «Modern laboratory solutions», LLP «Distritech».27- 28.02.2019 (Karaganda);
- Certificate «Modern problems of air pollution and ways to solve them» 03.06. - 14.06.2019 LLP «ABSolut Ecology» (Karaganda);
- Certificate «Implementation of the principles of collective responsibility in the university», 13.11-30.11.2018 KarTU (Karaganda);
- Certificate «Safety and labor protection», 03.07- 11.07.2019 KarTU (Karaganda);
- Certificate «Technology Commercialization Basics», OO «Alliance of Technology Commercialization Professionals» 28- 30.10.2018 (Karaganda);
- Certificate «Influence of microwave and ultrasonic activation on the kinetics of organic reactions», 19- 23. 01. 2020, IOCC (Karaganda)

**PERSONAL QUALITIES**

**Languages** Russian, English  
**Mother tongue** Kazakh

LANGUAGE	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Speaking	Writing	
<b>Русский язык</b>	fluent	fluent	fluent	fluent	fluent
<b>English</b>	B2	B2	B1	B2	B3

«No»

AVAILABILITY OF A LANGUAGE CERTIFICATE:  
IELTS

**Компьютерные навыки** Advanced Microsoft Office User (Word, Excel, Power Point), knowledge of Windows operating systems.

**Other skills (hobbies)** Reading, summer and winter types of sport, table games.

**ADDITIONAL INFORMATION**

## Основные публикации

1. Fazylov S.D., Omarov T.S., Kasenov R.Z. Electrosynthesis of bioactive compounds based on commercially available alkaloids // *Journal of Electrochemistry*, 1992. Vol.28.- Issue 4.-P.629-637.
2. Mukanova K.D., Fazylov S.D., Kassenov R.Z. On the anticholinesterase properties of O, O-dialkyl-O-quininyl phosphates // *Journal of General Chemistry*, 1999.-Issue 3.-P.503-504.
3. Zhivotova T.S., Fazylov S.D., Gazaliev A.M., Kassenov R.Z., Ibraev M.K. Interaction of alkaloid (amino) dithiocarbamates with acrylic acid and its derivatives // *Journal of Applied Chemistry*, 2005.-T.77.-Issue 8.-S.1336-1339.
4. Mustafin E.S., Omarov Kh.B., Kasenov R.Z., Kaikenov D.A. Synthesis and X-ray study of compounds  $TmI_3Fe_5O_{12}$  (Mell - Ca, Sr, Ba). *Journal "Inorganic materials" RAS*. 2012.-T.57.-№ 9.-C.1341-1343
5. E.S. Mustafin, R.Z. Kasenov, A.M. Pudov, A.A. Ainabayev. Chemical and plasmochemical methods for producing syngas // *Bulletin of the Ecology and Chemical technology.-Sheffield: Science and education ltd*, 2016.-Vol.2. -P.62-65.
6. Mustafin E.S., Kasenov R.Z., Kaikenov D.A., Mustafin T.E., Tashmagambetov K.K. A method of obtaining complex perovskite-like oxides of rare earth, alkaline earth and transition metals with the general formula  $LnMeCoO_{3.5}$ , where Ln is a rare earth metal, Me is an alkaline earth metal // *Patent of the Republic of Kazakhstan for invention No. 32363 dated 16.08.2017*.
7. Mustafin E.S., Bakibaev A.A., Pudov A.M., Kaikenov D.A., Kassenov R.Z. The technology of synthesis of complex oxides and their electrochemical characteristics. // *Monograph.-Karaganda: Publishing house Alfa plus*, 2017. – 60 p.
8. Mustafin E.S., Kassenov R.Z., Pudov A.M. *Materials for solid oxide fuel cells* // *Monograph.-Mauritius: Lambert Academy Publishing*. 2018. – 48 p.
9. R.Z. Kasenov, O.V. Demets, G.T. Kartbaeva, S.Y. Zhymadilov., M.R. Alieva. Extraction of betulin-natural triterpenoids from Kirgыз birch "*Betula kirgisorum*", an endemic plant of the Republic Kazakhstan // *Bulletin of the Karaganda universiti. "Biology. Medicine. Geography" series. - No. 1 (93) / 2019. - p.14-18*.
10. Kasenov R.Z., Zeinollin R.R., Alieva M.R., Akhmetkaliev S.Zh., Oiratova A.M. Chromatographic and spectrometric studies of the content of organic substances in coal tar // *Bulletin of the Kazakhstan National Academy of Natural Sciences. Almaty.- 2019.- No. 1, pp. 74-77*.
11. Mustafin E.S., Kassenov R.Z., Pudov A.M., Kaikenov D.A. Cathode material for solid oxide fuel cell // *Patent of the Republic of Kazakhstan for utility model No. 3681 dated 18.02.2019*.
12. Takibaeva A.T., Oralova A.T., Kassenov R.Z. Determination of the content of metals in the coals of Central Kazakhstan // *Monograph.-Poland, Warsaw: Publishing house "iScience"*, 2019.-61 p.
13. Kasenov R.Z., Demets O.V., Kartbaeva G.T., Zhumadilov S.S., Bakibaev A.A. Study of the quantitative yield of betulin from Kyrgyz birch and the synthesis of its phosphorylated derivative // *Journal "Bulletin of Karaganda University", series "Biology. Medicine. Geography" .- Karaganda, No. 3 (95) /2019.- P.13-19*.
14. Mustafin E.S., Omarov Kh.B., Kasenov R.Z., Kaikenov D.A., Pudov A.M., Satymbaeva A.S. "Synthesis and X-ray study of compounds  $TmI_3Fe_5O_{12}$  (Mell - Ca, Sr, Ba)" // *Journal of Inorganic Chemistry RAS. -2012, -T.57.-No. 9.-C.1341-1343*.
15. Kasenov R.Z., Demets O.V., Alieva M.R. Keibir tabiri triterpenoidtards belip alu zhane khimiyalyk transformationalau idisterin zertteu // *Monograph.-Karaganda: Publishing house "Sanat-Polygraphy"*, 2020. – 80 p.

**Participation in the implementation of scientific projects**

1. Grant of the Science Committee of the Ministry of Education and Science of the Republic of Kazakhstan 2009-2011 on the topic "Processing of wastes from coke-chemical and oil refining industries (coal tar, sour tar, tar and oil sludge) into liquid petrochemical fractions using the energy of a hydro-pulse discharge»;
2. Grant of the Science Committee of the Ministry of Education and Science of the Republic of Kazakhstan 2011-2014 for program-targeted financing on the topic "Introduction of a technological line for obtaining road bitumen from coal tar-waste of coke production enterprises in Central Kazakhstan»;
3. Grant of the Science Committee of the Ministry of Education and Science of the Republic of Kazakhstan 2012-2014 on the topic "Development of technologies for obtaining new inorganic nanostructured ceramic materials for the microelectronic industry»;
4. Grant of the Science Committee of the Ministry of Education and Science of the Republic of Kazakhstan 2013-2015 on the topic "Development of synthesis technology and study of the properties of high-temperature proton conductors based on perovskite-like complex oxides, promising for hydrogen energy»;
5. Grant of the Science Committee of the Ministry of Education and Science of the Republic of Kazakhstan 2015-2017 on the topic "Development of synthesis technology and physicochemical research of new materials promising for solid oxide fuel cells used in hydrogen energy»;
6. Grant of JSC "Science Foundation" 2017-2019. "Creation of a plasma-chemical plant for the production of synthesis gas from agricultural waste»;
7. Grant of the Science Committee of the Ministry of Education and Science of the Republic of Kazakhstan for 2020-2022. on the topic "Development of methods for the isolation of natural triterpenoids from plants and their chemical transformation in order to search for new biologically active substances».

**Membership in professional scientific organizations**

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**HONORS AND AWARDS**

Awarded with a medal «25 years NAS RK».

**Reading courses**

1. Introduction to chemistry of biologically active compounds;
2. General biochemistry and synthesis of biologically active substances;
3. Organic chemistry;
4. Validation and implementation of GMP rules;
5. Industrial technology of drugs

**Professional and scientific interest areas**

- Carrying out research and development work in fundamental and applied directions;
- Obtaining and studying the properties of organic and biologically active substances,
- Synthesis of new inorganic compounds for various purposes, study of their properties.

**IDENTIFICATIONS SCIENTIFIC DATABASE**

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**Researcher ID:** <https://www.webofscience.com/wos/author/record/42650323>  
**ORCID ID:** <https://orcid.org/0000-0002-9832-5115>  
**Author ID Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=56616120800>  
**H-INDEX=4**