

Personal information: AITBEKOVA DARZHAN



Republic of Kazakhstan, Karaganda city, Universitetskaya street, 28
Karagandy University of the name of academician E.A. Buketov

darzhan91@mail.ru

Date of birth: 21.09.1991

Place of work, position: Karagandy University of the name of academician E.A. Buketov,
Associated Professor of the Department of Chemical Technology and Petrochemistry

Scientific degree,

Scientific title (Academic degree): PhD in specialty 6D060600 – Chemistry

Work experience:

2012-2015 Laboratory assistant, JSC IRPH “Phytochemistry”
2015-2018 Chemistry teacher, No.39 gymnasium named after M. Zhumabayev
2018 - present Lecturer, Senior Lecturer, Associated Professor, Department of Chemical
Technology and Petrochemistry, E.A. Buketov KarU

**Education and
professional
training**

2009-2013 Karagandy State University of the name of academician E.A. Buketov.
Bachelor's degree in the specialty 050606 – Chemistry
2013-2015 Karagandy State University of the name of academician E.A. Buketov.
Master's degree in the specialty 6M060600 – Chemistry
2018-2021 Karagandy University of the name of academician E.A. Buketov. PhD in the
specialty 6D060600 – Chemistry
November 2014 Internship, Faculty of Natural Sciences Charles University, Prague, Czech
Republic
March 2021 Internship, Institute of Laser and Plasma Technologies of NRU MEPhI,
Moscow, Russian Federation

Skills development information

2018 Сертификат КарГУ им. Е.А. Букетова, 24.05.2018: «Школа лекторского
мастерства»;
2018 Сертификат ОО «Альянс профессионалов по коммерциализации
технологий», 22.05.2018: «Основы коммерциализации технологий»;
2018: Сертификат АО «Казахский национальный исследовательский
технический университет им. К.И. Сатпаева», Алматы, 31.08.2018:

- «Повышение квалификации ППС для усиленной подготовки педагогических кадров с учетом опыта базовых вузов Государственной программы индустриально-инновационного развития РК и развития навыков предпринимательства, в том числе онлайн режиме по специальности «Химия»;
- 2019 Certification, Buketov Karaganda State University, 03.06.2019: “Increase Research Effectiveness via ScienceDirect and Scopus”;
- 2019 Сертификат, Е.А. Бөкетов ат. Қарағанды мемлекеттік университеті, 14.01.2019: «Химия-биологиялық пәндерді ағылшын тілінде оқыту әдістемесі»;
- 2020 Сертификат Coursera, Новосибирского государственного университета, 24.05.2020: «Физическая химия»;
- 2020 Coursera Course Certificate, University of Minnesota, 02.07.2020: «Statistical Molecular Thermodynamics»;
- 2020 Сертификат, Е.А. Бөкетов ат. Қарағанды мемлекеттік университеті, 15.05.2020: «Ағылшын тілінің интенсивті курсы (Intermediate)»;
- 2021 Удостоверение о повышении квалификации, Национальный исследовательский ядерный университет «МИФИ», 04.04.2021: «Методы анализа поверхности»;
- 2021 Удостоверение о повышении квалификации, Национальный исследовательский ядерный университет «МИФИ», 04.04.2021: «Избранные вопросы современной теоретической физики»;
- 2021 Сертификат курса гостевых лекций (Алтайский государственный университет, РФ), 28.05.2021: «Сверхкритические флюиды: основы, технологии»;
- 2022 Сертификат курса гостевых лекций (Московский государственный университет им. Ломоносова, РФ), 12.11.2022: «Химия гетероциклов и медицинская химия»;
- 2022 Сертификат курса гостевых лекций (Московский государственный университет им. Ломоносова, РФ), 29.11.2022: «Динамические процессы при самоорганизации «мягкой» материи»

Knowledge of languages
Native language

Kazakh

Russian
English
Turkish

Understanding		Speaking		Writing
Hearing	Reading	Oral speech	Written speech	
C1	C1	B2	B2	C1
B1	B1	B1	B1	B1
A2	A2	A2	A2	A2

Other skills (hobbies)

Chess, checkers, volleyball

Main publications

- Aitbekova D.E.**, Baikenov M.I., Balpanova N.Zh., Tusipkhan A., Baikenova G.G., Yarkova T.A., Gyl'maliev A.M. Determination of the Thermodynamic Functions of a Fraction of Primary Coal Tar by an Additive Method // Solid Fuel Chemistry. - 2021. – Vol. 55, № 3. – P. 171-176. DOI:10.3103/S0361521921030034
- Yedrissov A.T., **Aitbekova D.E.** (...), Kaikenov D.A. TGA-Based

Thermokinetics of High-Viscosity Oil Decomposition in the Presence of Nanocatalysts, Catalytic Additives, and Polymers // Petroleum Chemistry 61(4), pp. 431-437. DOI:10.1134/S0965544121050157

3. **Aitbekova D.E.**, Makenov D.K., (...), Baikenov M.I. Hydrogen distribution in primary coke oven tar and its fractions // Bulletin of The University of Karaganda – Chemistry – 2021 (101), pp. 82-90. DOI:10.31489/2021Ch1/82-90

4. **Aitbekova D.E.**, Yun M.F., (...), Baikenov M.I. Catalytic Hydrogenation of a Model Mixture of Anthracene and Phenanthrene // Solid Fuel Chemistry 53(4), pp. 230-238. DOI:10.3103/S0361521919040025

5. **Aitbekova D.**, Baktykyzy A., (...), Baikenov M. The use of catalytic additives for hydrogenation of polyaromatic hydrocarbons. – 2020. - Materials Today-Proceedings 31, pp. 611-614. DOI:10.1016/j.matpr.2020.07.671

6. **Aitbekova D.E.**, Su X.T., (...), Baikenov M.I. Effect of catalytic systems on the hydrogenation of phenanthrene // Bulletin of University of Karaganda. Series «Chemistry». – 2019 (96), pp. 77-82. DOI:10.31489/2019Ch4/77-82

7. Baikenov M.I., **Aitbekova D.E.**, Balpanova N.Zh., Tusipkhan A., Baikenova G.G., Aubakirov Y.A., Brodskiy A.R., Ma Fengyun, Makenov D.K. Hydrogenation of polyaromatic compounds over NiCo/chrysotile catalyst // Bulletin of University of Karaganda. Series «Chemistry». – 2021. – № 3 (103). – C. 74-82. <https://doi.org/10.31489/2021Ch3/74-82>

8. N.Zh. Balpanova, A.M. Gyulmaliev, Yu.N. Pankin, **D.E. Aitbekova**, F. Ma, K. Su, M.I. Baikenov. Kinetics of Hydrogenation of Heavy and Solid Hydrocarbon Raw Materials // Solid Fuel Chemistry. – 2019. – №5(53). – P. 319-323. <https://doi.org/10.3103/S0361521919050021>

9. Aigerim Barshabayeva, Nazerke Balpanova, **Darzhan Aitbekova** et al. The Influence of Various Factors on Nanocatalyst Activity during Benzothiophene Hydrogenation // Applied Sciences (Switzerland), 2022, 12(24), 12792. <https://doi.org/10.3390/app122412792>

10. Tyanakh S., Baikenov M., Tusipkhan A., **Aitbekova D.E.**, Balpanova N., Ma Feng Yun. Kinetic study of the thermolysis process of oil sludge (Atasu-Alashankou) with nickel, cobalt and iron deposited on microsilicate // Eastern-European Journal of Enterprise Technologies. – №2(6(116)) – 2022. – P. 19-24. DOI:10.15587/1729-4061.2022.255666

The number of published scientific papers is more than 20, including:

— in journals based on Scopus – 10

— in journals based on Web of Science – 15

— in publications recommended by the CQAFSHE MSHE RK – 10

The Hirsch index based on Scopus – 2

The Hirsch index based on Web of Science – 2

The Hirsch index based on Google Scholar – 2

Courses

Colloid chemistry

Theoretical foundations of oil, gas and coal processing

Environmental chemistry

Professional and scientific interests

Quantum chemistry, hydrogenation of heavy hydrocarbon raw materials, nanocatalysts

Scientific

ORCID ID: <https://orcid.org/0000-0002-6839-9711>

**databases
identifiers**

Researcher ID: <https://www.webofscience.com/wos/author/record/AAO-8618-2020>

Scopus Author ID:

<https://www.scopus.com/authid/detail.uri?authorId=57210341371>

Google Scholar:

<https://scholar.google.com.do/citations?hl=en&pli=1&user=7Fr6KN0AAAAJ>