



**Personal information: Tyanakh Sairagul**

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

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Дата рождения: 01/10/1989

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

**Scientific degree,**

**Scientific title (Academic degree):** Master of Technical Sciences, PhD doctoral student  
8D05308901 – Chemistry

**Work experience:**

2011– 2013

**Karaganda private enterprise "Bolashak"**

Position: chemist, laboratory assistant, department of pharmaceutical disciplines.

2013– 2017

**L.N. Gumilyov Eurasian National University : Faculty of Natural Sciences, Chemical Engineer, Department of Chemistry.**

Disciplines taught: Chemistry, General chemistry, New technologies in teaching chemistry, Chemistry and chemical technology of inorganic substances, Organic chemistry, Analytical chemistry, etc.

2017 – 2019

**JSC International Research and Production Holding Phytochemistry.**

Position: leading engineer of steroid compound chemistry laboratories.

2019 – 2020

**PI Karaganda Medical Intercollege:** chemistry teacher

Disciplines taught: General chemistry, organic chemistry, inorganic chemistry, analytical chemistry, pharmaceutical chemistry.

**Education and professional training**

2007-2011

Karaganda State University named after Academician E.A. Buketov, Faculty of Chemistry, specialty "Chemistry", Bachelor of Science in Chemistry.

- 2017-2019 Karaganda State University named after Academician E.A. Buketov, Faculty of Chemistry, specialty "Chemical Technology of Inorganic Substances", Master of Engineering and Technology.
- 2020 г. – currently Karaganda State Technical University, Faculty of Engineering and Pedagogy, specialty "Chemical Technology of Inorganic Substances", Master of Pedagogical Sciences.  
Karaganda University named after Academician E.A. Buketov, Faculty of Chemistry, specialty "8D05308901 – Chemistry", PhD-doctoral student.
- 11.05. 22 - "Microsilicate-based nanocatalyst for hydroconversion of primary coal tar and  
10.06.2022 oil sludge" on the basis of the Catalytic Research Laboratory of Tomsk State University, leading researcher of the National Research Organic Synthesis Laboratory of Tomsk State University, Senior Researcher, Professor, Doctor of Chemical Sciences Bakibaev A.A. . passed an international internship under the guidance of

### Skills development information

- 19.09.2017- Attended a course of lectures at Academician Y.A. Buketov Karaganda State  
03.10.2017 University specified as follows: topic: "Solid State Chemistry". г. Караганда, сертификат;
- 04.09.2020 "Center of Pedagogical Mastery" JSC "Nazarbayev Intellectual Schools", in  
the amount of 80 academic hours, certificate;
- 31.01.22 - 25.02.22 Gareth Dyke, University of Debrecen, Hungary ATTENDED A 72-hour  
TRAINING SERIES 'WRITING AND PUBLISHING ACADEMIC PAPERS  
IN ENGLISH' a course lecture on the topic was listened to and a certificate  
was issued (72 hours).
- 02.03.22 - Наталия Калицева "How to get published in journals on Technical  
Sciences?" a course lecture on the topic was listened to and a certificate was  
issued
- 11.04.22 - 06.05.22 Безносюк Сергей Александрович, Head of the Department of Physical and  
Inorganic Chemistry, Altai State University, Russia, a course lecture on  
24.05.22 "Physical chemistry, computer nanoengineering and quantum technology  
materials" was listened and a certificate was issued (72 hours).  
24.05.22 Наталия Калицева "What is Open Access?" a course lecture on the topic was  
listened to and a certificate was issued  
Наталия Калицева "Journal on subscription vs Open Access journal: what's  
25.05.22 better to publish your research?" a course lecture on the topic was listened to  
and a certificate was issued
- 25.05.22 Наталия Калицева "How to search scientific information on your topic?" a  
course lecture on the topic was listened to and a certificate was issued
- 17.10.22 12.11.22 Наталия Калицева "How to find journal for you research?" a course lecture  
on the topic was listened to and a certificate was issued
- 17.10.22-12.11.22 Lomonosov Moscow State University, Doctor of Science, Professor E.V.  
ж Babaev's course lecture on "Chemistry of heterocycles and medical chemistry"  
was attended and a certificate was issued (72 hours) (Moscow, RF).
- 31.10.22 29.11.22

Lomonosov Moscow State University, candidate of physics and mathematics  
A. V. Shibaev's course lecture on "Self-organizing polymer and micellar systems" was listened to and a certificate was issued (72 hours) (Moscow, RF).

Lomonosov Moscow State University, candidate of physics and mathematics  
A. L. Kvyatkovsk "Dynamic processes of self-organization of "soft" matter" was attended and a certificate was issued (72 hours) (Moscow, RF).

**Knowledge of languages**

**Native language**

Kazakh

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

**Russian**

**Main publications**

1. **С. Тянах**, П.К.Кудабаева, Г.М. Мажикенова, М.И. Байкенов, С.Б.Жаутикова, Б.И. Тулеуов, С.М. Адекенов. Оптимизирование технологии выделения экидистерона из *Silene media* (Litv.) Клеором варьированием методов экстракции // Вестник Карагандинского государственного индустриального университета. – 2018. – №3(22). – С.100–105.
2. **С.Тянах**, Б.С. Темиргазиев, А.М. Кожанова, М.И. Байкенов, Б.И.Тулеуов, С.М. Адекенов. Оптимизация технологии извлечения экидистерона из *Silene media* (Litv.) Клеором варьированием параметров экстракции // Республиканская научно-практич. конференция «Перспектива использования природных соединений в сельском хозяйстве». –25–26 мая, 2018., Гулистан, Республика Узбекистан. –С. 15–16.
3. **Tyanakh S.**, Tusipkhan, A.; Gyul'maliev, A.M; Yung, Ma Feng; Baikenova, G. G.; Kaikenov, D. A.; Khalitova, A. I.; Baikenov, M. I. «Кинетическое изучение термического разложения первичной каменноугольной смолы в присутствии катализаторов с нанесенными на микросиликат оксидами никеля, кобальта и железам» атты мақала «Solid fuel chemistry» №1\_2022 .Web of Science, IF 0.937, (Q4);
4. **Tyanakh, S.**, Baikenov, M., Tusipkhan, A., Aitbekova, D., Balpanova, N., Ma Feng Yun «Kinetic study of the thermolysis process of oil sludge (Atasu-Alashankou) with nickel, cobalt and iron deposited on microsilicate» атты мақала «Eastern-European Journal of Enterprise Technologies» ( № 2(6 (116), 19–24, 2022) <https://doi.org/10.15587/1729-4061.2022.255666>
5. **Tyanakh, S.**, Baikenov, M.I., Gulmaliev, A.M., Ma, Feng-Yun, Musina, G., Khamitova, T.O., & Bolatbay, A.N. (2022) Kinetics of Thermolysis of a Low-Temperature Tar in the Presence of a Catalyzer Agent with Deposited Metals. *Bulletin of the Uni-versity of Karaganda Chemistry*, 108(4), 89-98. <https://doi.org/10.31489/2022Ch4/4-22-19>
6. **Tyanakh, S.**, Baikenov, M.I., Ma Feng-Yun, Fomin, V.N., Baikenova, G.G., Ashimhanov, A.S., & Seitzhan, R.S. (2023) Determination of Optimal Conditions for Catalytic Hydrogenation of Oil Sludge (Atasu-Alashankou). *Eurasian Journal of Chemistry*. <https://doi.org/10.31489/2959-0663/2-23-15>
7. **Tyanakh, S.**, Baikenov, M.I., Gulmaliev, A.M., Ma, Feng-Yun, Musina, G., Khamitova, T.O., & Bolatbay, A.N. (2022) Kinetics of Thermolysis of a

Low-Temperature Tar in the Presence of a Catalyzer Agent with Deposited Metals. *Bulletin of the University of Karaganda Chemistry*, 108(4), 89-98.  
<https://doi.org/10.31489/2022Ch4/4-22-19>

8. **С.Тянах** «Кинетика термической деструкции первичной каменноугольной смолы в присутствии микросиликата содержащий Ni, Co, Fe» атты тезис Химия и химическая технология в XXI веке: материалы XXIII Международной научно-практической конференции студентов и молодых ученых имени выдающихся химиков Л. П. Кулёва и Н. М. Кижнера, В 2 томах. Том 2 (г. Томск, 16-19 мая 2022г.) / Томский политехнический университет. – Томск : Изд-во Томского политехнического университета, 2022. – от с.24-25.;

9. **С.Тянах** «Кинетика термической деструкции первичной каменноугольной смолы в присутствии микросиликата содержащий Ni, Co, Fe» атты тезис Химия и химическая технология в XXI веке: материалы XXIII Международной научно-практической конференции студентов и молодых ученых имени выдающихся химиков Л. П. Кулёва и Н. М. Кижнера, В 2 томах. Том 2 (г. Томск, 16-19 мая 2022г.) / Томский политехнический университет. – Томск : Изд-во Томского политехнического университета, 2022. – от с.24-25.;

10. **С.Тянах** XI Международный Российско-Казахстанский симпозиум «Углекислотная химия и экология Кузбасса» «Термическая деструкция нефтешлама (Атасу-алашанькоу) в присутствии гетерогенного катализатора» атты тезис 3-6 шілде 2022 ж., Кемерово жарияланды;

11. **С.Тянах** «Кинетика термической деструкции низкотемпературной смолы каталитической добавкой с нанесенными металлами» атты тезис VIII Международной Российско-Казахстанской научно-практической конференции «Химические технологии функциональных материалов», организованная совместно Казахским национальным университетом им. Аль-Фараби (Факультет химии и химической технологии КазНУ) и Новосибирским государственным техническим университетом (Новосибирск, Россия) 28-29 сәуір – Алматы: Қазақ университеті б.272-273 жарияланды;

12. **С.Тянах** XII Международная конференция «Химия нефти и газа» 26 - 30 қыркүйек 2022 ж, Томск, «Кинетика термической деструкции первичной каменноугольной смолы с нанесенными на микросиликат никеля, кобальта и железа» Россия жарияланды

13. А.М. Кожанова, Е.А. Байжигит, Г.М. Мажикенова, **С.Тянах**, Б.И.Тулесуов, С.М. Адекенов. Выделение 2-дезоксидизона важнейшего синтона, рабочего стандартного образца и субстанции из смолевки волжской // Международная Конференция «Лекарственные препараты на основе природных соединений», 18-19 сентября 2018 г., Ташкент, С.105-106.

14. Shakimbai A.D., Baizhigit Ye.A., Mazhikenova G.M., **Tyanakh S.**, Kozhanova A.M., Minaeva Ye.V., Tuleuov B.I., Adekenov S.M. Khochia scoparia (L.) Schrad isa new source of 2-deoxyecdysone // XIII International Symposium on the Chemistry of Natural Compounds. P.191. 2019

**The number of published scientific papers is more than 10, including:**

— in journals based on Scopus – 5

— in journals based on Web of Science – 4

— in publications recommended by the CQAFSHE MSHE RK – 2

The Hirsch index based on Scopus – 1

The Hirsch index based on Web of Science – 1

<b>Courses</b>	Fundamentals of pharmaceutical technology, General pharmacology, Fundamentals of scientific research, Non-traditional methods of processing hydrocarbon raw materials
<b>Professional and scientific interests</b>	Pharmaceutical chemistry, steroid chemistry, hydrogenation of heavy hydrocarbon raw materials, nanocatalysts
<b>New scientific developments and projects:</b>	Project topic: Synthesis, structure and biological activity of new water-soluble derivatives of polyoxysteroids. New scientific developments: Synthesis, structure and activity of copper complexonates based on phosphorus-containing compounds and polyoxysteroids. Topic of doctoral dissertation: Microsilicate-based nanocatalyst for hydroconversion of primary coal tar and oil sludge
<b>Additional Information: 2017 – 2020</b>	Based on the research carried out, the conditions for the isolation of ecdysterone from the aerial parts of the plants <i>Silene media</i> (Ltv.) Kleopow and <i>Silene guntensis</i> B. Feditsch. were optimized for the first time, and complex compounds of biologically active phytoecdysteroids and flavonoids with copper (II) ions were obtained for the first time.
<b>Professional and scientific interests Scientific databases identifiers</b>	ORCID ID: <a href="https://orcid.org/0000-0001-5343-4695">https://orcid.org/0000-0001-5343-4695</a> Researcher ID: <a href="https://www.webofscience.com/wos/author/record/ADJ-2407-2022">https://www.webofscience.com/wos/author/record/ADJ-2407-2022</a> Scopus Author ID: <a href="https://www.scopus.com/authid/detail.uri?authorId=57350668500">https://www.scopus.com/authid/detail.uri?authorId=57350668500</a>