

## PERSONAL INFORMATION

## IBRAEV MARAT



📍 Republic of Kazakhstan, Karaganda city, Universitetskaya str., 28, KarU named after Academician E.A. Buketov

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✉️ [mkibr@mail.ru](mailto:mkibr@mail.ru)

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| Date of birth: 18/11/1978

## PLACE OF WORK, POSITION

KarU named after Academician E.A. Buketov, Dean of the Faculty of Chemistry, Research Professor of the Department of Organic Chemistry and Polymers

## SCIENTIFIC DEGREE, SCIENTIFIC TITLE (ACADEMIC DEGREE)

Doctor of Chemical Sciences, Professor,  
Corresponding Member of the National Engineering Academy of the Republic of Kazakhstan

## WORK EXPERIENCE

Kazakhstan:	1999-2000 r	–	Chemistry teacher of Secondary school No. 17 Ekibastuz, Pavlodar region
	2000-2006	–	<b>Institute of Organic Synthesis and Carbon Chemistry of the Republic of</b>
	2000-2001		Junior Researcher at the Laboratory of Synthesis of Biologically Active Substances
	2001-2003		Graduate student;
	2003-2004		Researcher at the Laboratory of Synthesis of Biologically Active Substances
	2004-2007		Doctoral student
	<b>2006-2008</b>	–	<b>Sarsen Amanzholov East Kazakhstan State University:</b>
	07-10.2006		Assistant to the Rector.
	2006-2007		Head of the Laboratory of Digital Educational Television TSVIOT named after the First
President of the Republic of Kazakhstan;	2007-2008		Head of the Laboratory of Environmental Problems;
	2008-2008		Director of the Research Institute "New Materials";
	<b>2008-2022</b>	–	<b>Karaganda State Technical University:</b>
	2008-2009		Dean of the Faculty of Geology
	2009-2011		Professor of the PEiH Department
	2011-2013		Head of the Department of PEiH
	2013-2014		Professor of the PEiH Department
	2014-2015		Head of the Standardization and Material Resources Department of the KarSTU International
	Center for Materials Science		
	2016-2022		Professor of the Department of Chemistry and Chemical Technologies
	<b>2022 г. по н.в.</b>	–	<b>KarU named after Academician E.A. Buketov:</b>
	Dean of the Faculty of Chemistry		

## Place and date

## EDUCATION AND PROFESSIONAL TRAINING

- **1995-1999** – student of specialty "Chemistry" Kostanay State University named after Akhmet Baitursynov. Diploma with honors No. ZHB 0008322. Specialty: Chemistry. Qualification: Chemist. Chemistry teacher.
- **2001-2004** – full-time postgraduate study of D.V.Sokolsky IOKE, Almaty.
- **2004-2007** – full-time doctoral studies at the Institute of Organic Synthesis and Carbon Chemistry of the Republic of Kazakhstan (IOSU RK), Karaganda
- **2004** – Candidate of Chemical Sciences. Diploma No. GK 0011229 dated 23.04.2004
- **2007** – Doctor of Chemical Sciences. Diploma No. GD 0000210 dated 25.12.2007.
- **2009** – Docent. Diploma no. DC 0001143 dated 22.09.2009.
- **2011** – Professor. Diploma No. PR 0000603 dated 13.05.2011 .
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#### Education

#### Professional trainings, Scientific trips

- May 20-31, 2019 scientific internship at TSU Research Institute, Tomsk, Russian Federation
- 10.11-01.12 2021 online internship on the topic "Pedagogical education of the 21st century: new challenges and solutions" at BSPU named after M.Tank.

#### SKILLS DEVELOPMENT INFORMATION

- LLP «Центра коммерциализации технологий» 2015;
- «TUV SUD RUS» по курсу Внутренний аудит системы менеджмента качества согласно ISO 9001:2008, ISO 19011:2011, 2014, Yekaterinburg;
- KF RSE "KazInMetr", Karaganda, 2015.;
- Kazakhstan Quality Organization under the program «Основные положения ISO/IEC 17025 и его внедрение в испытательных и калибровочных лабораториях. Внутренний аудит»;
- NI TSU, Tomsk, Russia 2018. «Направленный синтез биологически активных веществ»;
- «Практика управления проектами на основе стандарта PMI PMBOK Guide 6 th edition» (СПМПК, 2018).
- ITMO St. Petersburg, Russia, June 18-26, 2021 on the topic «Изучение взаимосвязи структура-биологическая активность у производных азоловых гетероциклов»;
- NAO "KarTU" November 9-21, 2020 on the topic «HiPo-қызметкерлерінің басқарушылық әлеуетін дамыту»;
- ABSalut Ecology LLP October 7-24, 2020 on the topic «Современные методы органического синтеза»;
- NAO "KarTU" 6-10.12.2021 on the topic «Современные технологии менеджмента в образовании и предпринимательской деятельности».

#### PERSONNEL QUALITIES

Native language **Kazakh, Russian**

LANGUAGE	UNDERSTANDING		SPEAKING		WRITING
	Hearing	Reading	Oral speech		
English	A2	A2	A1	A1	A1
<b>LANGUAGE CERTIFICATE: HET</b>					

## Digital skills

Advanced User : Microsoft Office (Word, Excel, Power Point), graphic editors (Coreldraw, Adobe Photoshop), knowledge of operating systems : Windows

## Other skills (hobbies)

Volleyball, reading, traveling

## ADDITIONAL INFORMATION

### Main publications

1. Nurkenov O.A., Fazylov S.D., Arinova A.E., Seilkhanov T.M., Ibraev M.K., Tazhbaev E.M. Synthesis of New Chromene-Containing Pyrrolofullerenes // Russian Journal of General Chemistry, 2020, Volume 90, pages 1362-1364.
2. Ibrayev M.K., Nurkenov O.A., Seilkhanov T.M. Synthetic transformation of chalcones: Scientific publication // Warsaw: iScience Sp. z o. o., – 2020. – 70 p. (Монография, Варшава, Польша).
3. Нуркенов О.А., Фазылов С.Д., Аринова А.Е., Сейлханов Т.М., Ибраев М.К., Тажбаев Е.М. Синтез новых хроменосодержащих фуллеропирролидинов // Журнал общей химии, 2020, том 90, № 7, с. 1143–1145.
4. Fazylov S.D., Nurkenov O.A., Muldakhmetov Z.M., Gazaliev A.M., Arinova A.E., Ibraev M.K., Fazylov A.S. Biologically active derivatives of fullerene C60. Current state and development prospects // Bulletin of the Karaganda university, Chemistry series, 2020. №3. P.11-20.
5. Ibrayev M.K., Takibayeva A.T., Fazylov S.D., Rakhimberlinova Zh.B., Issabayeva M.B., Kelmyalene A.A. Some directions in the modification of azoles // News of The Academy of Sciences of The Republic of Kazakhstan JSC «D.V. Sokolsky Institute of Fuel, Catalysis and Electrochemistry», Series Chemistry and technology, 2020, №5 (443), С.85-91.
6. Ibrayev M.K., Issabayeva M.B., Tusupova A.S., Amanzholova A.S., Kuandykova A.A. Obtaining of water-soluble chelate forms of calcium and magnesium humate // News of the National Academy of Sciences of the Republic of Kazakhstan. Series Chemistry and Technology. Volume 4, Number 448 (2021), 27-31.
7. Патент РК №54844 3-((2S)-1-(5-фенил-4,5-дигидро -1H-пиразол-3-ил), обладающий антибактериальным действием / Ибраев М.К., Нуркенов О.А., Нурмаганбетов Ж.С., Сейдахметова Р.Б., Мукархан К., Аимжанова А.Ж.
8. Дрижд Н.А., Ибраев М.К., Даулетжанов А.Ж., Даулетжанова Ж. Исследование качества топливных брикетов из Шубаркольского угля // Горный журнал Казахстана, №9, 2021 г. С. 44-49.
9. Ibrayev M., Nurkenov O., Rakhimberlinova Zh., Shulgau Z., Takibayeva A., Issabayeva M., Kelmyalene A. Synthesis and antiradical activity of substituted chalcones and their derivatives // News of the National Academy of Sciences of the Republic of Kazakhstan. Series Chemistry and Technology. ISSN 2224-5286 Volume 3, Number 452 (2022), 97-110 <https://doi.org/10.32014/2518-1491.121>  
Ibrayev, M.K., Nurkenov, O.A.; Rakhimberlinova, Z.B., Takibayeva, A.T., Palamarchuk, I.V., Turdybekov, D.M., Kelmyalene, A.A.; Kulakov, I.V. Synthesis, Structure and Molecular Docking of New 4,5-Dihydrothiazole Derivatives Based on 3,5-Dimethylpyrazole and Cytisine and Salsoline Alkaloids // *Изд-во MDPI, Molecules* **2022**, 27(21), 7598; **Q1** <https://doi.org/10.3390/molecules27217598>

**Количество опубликованных научных и учебно-методических трудов - более 250, из них:**

- in journals based on Scopus – 23;
- in journals based on Clarivate Analytics – 25;
- in publications recommended by COXON MES RK, – 46;
- in publications published in the RSCI database, including journals from the list of the Higher Attestation Commission, – 38;

— monographs (co-authored) – 10;  
— textbooks, manuals, monographs (co-authored) – 12.  
The Hirsch index based on Scopus – 5.  
The Hirsch index based on Clarivate Analytics – 4.  
The Hirsch index based on RSCI – 5.  
The Hirsch index based on Google Scholar – 5.

#### Participation in the implementation of scientific projects

1. «Разработка технологии и комплекса технических средств извлечения металлов из техногенного сырья» (the customer of NATR MIR RK, 2011-2013. position – responsible executor);
2. «Создание Международного центра материаловедения» (customer World Bank, Ministry of Education and Science of the Republic of Kazakhstan Technology Commercialization Project, 2013-2015, position – performer);
3. «Физико-химические основы модифицирования вещества углей Центрального Казахстана с целью увеличения выхода ценных продуктов переработки» (The customer is the Committee of Science of the Ministry of Education and Science of the Republic of Kazakhstan, 2015-2017, position – responsible executor);
4. «Разработка инновационных технологий производства промышленно востребованных композитных материалов в условиях микроволновой активации» (The customer is the Committee of Science of the Ministry of Education and Science of the Republic of Kazakhstan, 2015-2017, position – head);
5. «Физико-химические основы получения наноструктурированных пеностеклокристаллических теплоизоляционных материалов на основе местных техногенных отходов» (The customer is the Committee of Science of the Ministry of Education and Science of the Republic of Kazakhstan, 2015-2017, position – responsible executor);
6. «Разработка эффективных методов синтеза халконов, флавоноидов, стильбеноидов и их химической модификации с целью поиска на их основе потенциальных антиоксидантных, противовоспалительных и антибактериальных средств для медицины» (The customer is the Committee of Science of the Ministry of Education and Science of the Republic of Kazakhstan, 2015-2017, position – head);
7. «Разработка эффективных методов синтеза азоловых соединений на основе природных веществ, обладающих антибактериальным, противовоспалительным и антиоксидантным действием» (The customer is the Committee of Science of the Ministry of Education and Science of the Republic of Kazakhstan, 2015-2017, position – responsible executor);
8. Разработка методов выделения природных тритерпеноидов из растений и их химической трансформации с целью поиска новых биологически активных веществ (The customer is the Committee of Science of the Ministry of Education and Science of the Republic of Kazakhstan, 2015-2017, position – performer).

#### Membership in professional scientific organizations

- Corresponding Member of the National Engineering Academy of the Republic of Kazakhstan;
- Member of the Academic Council of the Kazakhstan Institute of Standardization and Metrology of the Committee of Technical Regulation and Metrology of the Ministry of Trade and Integration of the Republic of Kazakhstan
- Scientific expert of JSC "National Center for State Scientific and Technical Expertise"

#### Awards and titles

Winner of the title "Best University Teacher" (MES RK, 2014)  
Twice winner of a scholarship for young talented scientists (MES RK, 2004; 2010)

### Courses

1. Инженерия и инженерное дело
2. Химия и химический инжиниринг
3. Композициялық материалдарды алу технологиясы мен синтезіндегі жаңа бағыттар
4. Физические и химические науки
5. Химия
6. Избранные главы органической химии

### Professional and scientific interests

Synthesis and modification of organic compounds, including biologically active compounds;

- Chemistry ofazole heterocycles;
- Coal Chemistry;
- Complex processing of hydrocarbon raw materials

### SCIENTIFIC DATABASES IDENTIFIERS

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**Researcher ID:** V-9320-2018

**ORCID ID:** <https://orcid.org/0000-0003-0798-5562>

**Идентификатор РИНЦ:**

**Author ID Scopus:** [7004463107](https://orcid.org/0000-0003-0798-5562)