

PERSONAL INFORMATION

KURMANOVA ALFIYA FARIDOVNA



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



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🌐 <https://orcid.org/0000-0003-4548-8145>



| Date of Birth: 09/05/1975

PLACE OF WORK, POSITION

Karaganda University named after academician E.A. Buketov, Associate Professor of the Department of Physical and Analytical Chemistry

ACADEMIC DEGREE, ACADEMIC TITLE (ACADEMIC DEGREE)

Candidate of Chemical Sciences

WORK EXPERIENCE

Place and date

- 1998-2001 - full-time postgraduate study at the Karaganda State University named after academician E.A. Buketov;
- 2001-2008 - Lecturer, Senior Lecturer of the Department of Physical and Analytical Chemistry, Faculty of Chemistry of the Karaganda State University named after academician E.A. Buketov;
- 2008 - up to the present - Associate Professor of the Department of Physical and Analytical Chemistry, Faculty of Chemistry, Karaganda University named after academician E.A. Buketov;

EDUCATION AND PROFESSIONAL TRAINING

Education

- 1994-1998 - Karaganda State University named after academician E.A. Buketov, Faculty of Chemistry, specialty - 0107-Chemistry, qualification - Chemist. Teacher;
- 1998-2001 - full-time postgraduate study at the Karaganda State University named after academician E.A. Buketov;

Professional trainings, Scientific trips

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SKILLS DEVELOPMENT INFORMATION

- Advanced training courses for teachers of pedagogical specialties: "Modern pedagogical technologies in higher educational institutions in the framework of the updated content of education", 26.05.2014-07.06.2014 (240 hours), JSC "National Center for Advanced Studies" Orleu";
- Advanced training on the course: "Modern trends in the development of chemistry and chemical technology", faculty of additional education of the KSU named after E.A. Buketov, 02.27.2017-04.03.2017;

- Course according to the program: "Intensive course of studying English (level A2)", faculty of additional education of the KSU named after E.A.Buketov;
- Course of guest lectures on the topic "Quantum technologies of intelligent nanomaterials" Doctor of Physical and Mathematical Sciences, Professor of Altai State University (Russian Federation) Beznosyuk S.A., 26.11.2018 - 22.12.2018. on the basis of the KSU named after E.A. Buketov;

PERSONAL QUALITIES

Knowledge of languages Native language

Russian

| Language name | UNDERSTANDING | | SPEAKING | | WRITING |
|---------------------------|---------------|---------|-------------|----------------|---------|
| | Hearing | Reading | Oral speech | Written speech | |
| English language | A2 | A2 | A2 | A2 | A2 |
| certificate EF SET | | | | | |

Computer skills

Advanced user: Microsoft Office (Word, Excel, Power Point); graphic editors (CorelDraw, Adobe Photoshop, Paint), programs for quantum chemical calculations (Gaussan, HyperChem, ChemOffice), Zoom video conferencing. Knowledge of operating systems: Windows and Android.

Other skills (hobbies)

reading, amateur photography, travel

ADDITIONAL INFORMATION

Main publications

1. Proton exchange in ammonia, water and formic acid dimers: quantum-chemical calculation // Bulletin of the University of Karaganda - Chemistry. - 2018. - No. 2 (90). - S.64-71.
2. **Nonempirical modeling of protolytic processes in dimeric molecules of amino acids // Bulletin of the University of Karaganda - Chemistry. - 2018. - No. 2 (90). - S. 58-64.**
3. Quantum-chemical study of aminoacetic acid cyclic dimers // Bulletin of the University of Karaganda - Chemistry. - 2016. - No. 4 (84). - S. 33-38.
4. The investigations of several small molecules acid-base properties by quantum chemical methods // Bulletin of the University of Karaganda - Chemistry. - 2016. - No. 4 (84). - P.27-33.

The number of published scientific and educational-methodical works is more than 150, of which:

- in the Clarivate Analytics database journals - 8;
- in editions recommended by KOKSON MES RK - 10;
- in **publications located in the RSCI database - 9;**
- textbooks, teaching aids, electronic textbooks (co-authored) - 3.

Clarivate Analytics Hirsch Index - 1.

Hirsch index according to the RSCI database - 1.

Google Scholar Hirsch Index - 1.

Participation in the implementation of scientific projects

- Performer on the initiative topic "Spin probing of the kinetics and mechanisms of acid-base reactions of fast proton transfer and exchange in the liquid phase" in the laboratory of quantum chemistry and EPR spectroscopy;

Membership in professional scientific organizations

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Awards and titles

- laureate of the D.A. Kunaev prize for young scientists for the best collective work in the field of natural sciences (2002);
- laureate of the prize named after professor Kurmanaliev O.Sh. (2014);
- certificate of honor of the Akim of the city of Karaganda for personal contribution to the socio-economic development of the city, active labor and social activities (2020).

Courses

1. Physical chemistry
2. Chemical thermodynamics and equilibrium in solutions,
3. Chemical kinetics and electrochemistry,
4. Kinetics of physical and chemical processes
5. Thermodynamics of physical and chemical processes
6. Quality control of raw materials, materials and finished products
7. 7. Analytical chemistry,

Professional and scientific interests

- quantum chemistry of protolytic processes;
- computational chemistry and molecular modeling

SCIENTIFIC DATABASES IDENTIFIERS

Researcher ID: U-5841-2018
ORCID ID: <https://orcid.org/0000-0003-4548-8145>
RSCI identifier: