

PERSONAL INFORMATION

PUSTOLAİKINA IRINA ANATOLEVNA



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



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🌐 <https://orcid.org/0000-0001-6319-666X>



| Date of Birth: 05/05/1975

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

- 1996-1999 - full-time postgraduate study at the Institute of Organic Synthesis and Coal Chemistry of the Republic of Kazakhstan (IOSU MES RK);
- 1999-2000 - engineer of the 2nd category of the laboratory of radio spectroscopy of the Karaganda State University named after academician E.A. Buketov;
- 2000-2002 - Head of Laboratory, Valut-Transit Gold LLP.
- 2002-2004 - Lecturer, Senior Lecturer of the Department of Information Technologies of the Professional and Art Faculty of the Karaganda State University named after academician E.A. Buketov;
- 2005-2007, 2010-2013 - Deputy Dean for Scientific Work of the Faculty of Chemistry of the Karaganda State University named after academician E.A. Buketov;
- 2004 - 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;
- 2019 - present - Executive Secretary of the journal Bulletin of Karaganda University. Chemistry Series (<https://chemistry-vestnik.ksu.kz/contact>).

EDUCATION AND PROFESSIONAL TRAINING

Education

- 1992-1996 - Karaganda State University named after academician E.A. Buketov, Faculty of Chemistry, specialty - 0107-Chemistry, qualification - Chemist. Teacher;
- 1996-1999 - full-time postgraduate study at the Institute of Organic Synthesis and Coal Chemistry of the Republic of Kazakhstan (IOSU MES RK);
- 2017-2019 - Karaganda State University named after academician E.A. Buketov, faculty of foreign languages, specialty - 5B011900-Foreign language: two foreign languages (English), degree - bachelor of education;

Professional trainings, Scientific trips

- 09.07.2017-05.08.2017 - English language courses "Intensive English Language Course", 100x45 minutes, Jipka language school, Prague, Czech Republic;

SKILLS DEVELOPMENT INFORMATION

- The training course "Intensive English language training for teachers of chemistry and computer science at universities" in accordance with the advanced training program for the teaching staff, for enhanced training of teachers, teaching staff of universities and taking into account the experience of basic universities SPIIR "including online, 01.11.2016 -20.12.2016. Organizers: Ministry of Education and Science of the Republic of Kazakhstan, Buketov KarSU;
- 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 B2)", faculty of additional education of the KSU named after E.A.Buketov;
- Language courses of English "Intensive English Language Course", 100x45 minutes, 09.07.2017-05.08.2017, language school Jipka, Prague, Czech Republic;
- 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;
- Advanced training courses for teachers of pedagogical specialties: "Modern pedagogical technologies in higher educational institutions in the framework of the updated content of education", 01.04.2019-17.05.2019 (260 hours), JSC "National Center for Advanced Studies" Orleu ";
- Online course on the Coursera educational platform "Scientific texts - learning to write in Russian and English" from National Research Nuclear University MEPhI. Certificate 94S7B8QC9TH2 dated 16.07.2020;
- Online course on the Coursera educational platform "Quantum Mechanics" from the University of Colorado Boulder. Certificate F6EUSRDS8ZHN dated 07/31/2020;
- Online seminar "Ethics of scientific publications and tools for improving their quality: Web of Science and Antiplagiat" from Web of Science Group, Clarivate Analytics company; Antiplagiat from 04/30/2020;
- Online seminar "Criteria for the quality of scientific publications. Selection procedure in the Web of Science Core Collection "from Clarivate from 11/13/2020;
- Webinar "Scopus Only Days" by Elsevier, 18-19.03.2021.

PERSONAL QUALITIES

Knowledge of languages Native language

Russian

Language name	UNDERSTANDING		SPEAKING		WRITING
	Hearing	Reading	Oral speech	Written speech	
English language	B2	B2	B2	B2	B2
certificate: certificate EF SET					

Computer skills

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

Other skills (hobbies)

reading, amateur photography, travel

ADDITIONAL INFORMATION

1. Investigation of intermolecular proton exchange of 3,6-di-tert-butyl-2-oxyphenoxyl with N-phenylanthranilic acid by ESR spectroscopy method // Bulletin of the University of Karaganda - Chemistry. - 2020. - No. 2 (98). –P.35-41.

2. 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.

3. 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.

4. Quantum-chemical study of aminoacetic acid cyclic dimers // Bulletin of the University of Karaganda - Chemistry. - 2016. - No. 4 (84). - S. 33-38.

Main publications

5. 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 - 13;
- in editions recommended by KOKSON MES RK - 22;
- in publications located in the RSCI database - 9;
- textbooks, teaching aids, electronic textbooks (co-authored) - 10.

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;

– Member of the working group of Karaganda State University in the implementation of the International project 598506-EPP-1-2018-1-PT-EPPKA2-CBHE-JP ENTER - Pedagogical training of engineering teachers

Membership in professional scientific organizations

- member of the editorial board of the journal Bulletin of Karaganda University. Chemistry Series (<https://chemistry-vestnik.ksu.kz/contact>).

Awards and titles

– scholarship for talented young scientists of the Ministry of Science and Education of the Republic of Kazakhstan (2004);

– laureate of the prize named after professor Kurmanaliev O.Sh. (2011);

– Rector's certificate of honor for his contribution to the development of E.A. Buketov KarSU (2012, 2018);

– letter of gratitude from the akim of the Kazybek bi district of the city of Karaganda for active participation in social and political life and contribution to the socio-economic development of the district (2012, 2016);

– letter of gratitude from the akim of the city of Karaganda for active participation in the social and political life of the city of Karaganda (2015);

– 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 (2019).

Courses

1. Quantum Chemistry
 2. Quantum theory of chemical reactions
 3. Theory of chemical reactions
 4. Applied quantum chemistry
 5. Modern methods of computational chemistry
 6. Research methods
 7. Chemistry English for scientific purposes
 8. Metrology, standardization and certification
- quantum chemistry of protolytic processes;
 - computational chemistry and molecular modeling

Professional and scientific interests

SCIENTIFIC DATABASES IDENTIFIERS

Researcher ID: [Q-8413-2017](#)

ORCID ID: <https://orcid.org/0000-0001-6319-666X>

RSCI identifier: 5717-4995