



**Kairat Kuterbekov**

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**Professional experience:**

2017 – Editor-in-Chief of international «Eurasian Journal of Physics and Functional Materials».

2007 – till present - professor of the International Department of Nuclear Physics, New Materials and Technologies.

On April 3, 2009 - 1st Dean created the Physico-Technical Faculty, ENU;

From 2006 to 2009 - Director of the Interdisciplinary Research Complex based on heavy-ion accelerator DC-60 in Astana;

From 1980 to 2007 – worked in the Institute of Nuclear Physics of the Kazakh SSR (later in INP) for the following positions: Engineer, Junior Researcher, Researcher, Senior Researcher, Scientific Secretary, Deputy Director.

**Awards:2**

2010 - Grant "The best teacher of the university 2010";

2007- Honored Worker of the nuclear industry of the Republic of Kazakhstan.

2015 - Breastplate "For merits in development of science of the Republic of Kazakhstan", issued by the Order of the Minister of Education and Science .

**Scientific degree, title:** Doctor of Physical and Mathematical Sciences of Russia and Kazakhstan, Professor

**Scientific school:** Institute of Nuclear Physics, Almaty; St. Petersburg State University (Russia); International Intergovernmental Organization "Joint Institute for Nuclear Research" (Dubna, Russia).

**Scientific interests:**

Nuclear physics, heavy ion physics, radiation ecology, alternative (nuclear and hydrogen) energy, high technologies.

**Research Grants:**

- 1994-2011. Basic Research Program of the Ministry of Education of the Republic of Kazakhstan;
- 2003-2008. International projects ISTC (Moscow);
- 2012-2014, 2013-2015. Projects Grant funding the Ministry of Education of the Republic of Kazakhstan.
- 2015-2017 «Development and creation of new nanocrystalline and nanocomposite chalcogenide materials to improve the efficiency of thermoelectric generators»;
- 2013-2015 «Production, purification and storage of hydrogen fuel for autonomous power plants»;
- 2015-2017 Scientific and technical program "Development of Hydrogen Energy and Technology in the Republic of Kazakhstan."
- 2018-2020 Scientific and technical program "Development Technology of Hydrogen Energy in the Republic of Kazakhstan."

**Delivered courses:** Heavy-Ion Physics.

**Author's courses:**

Nuclear Physics, Heavy Ion Physics, Experimental Methods in Nuclear Physics, Setting and conducting experiments in nuclear physics, Special practical - physics of exotic nuclei.

**Publications (selected):**

More than 300 publications in scientific journals, including 6-monographs and textbook "Experimental physics of heavy ions" (in Russian and Kazakh languages) used in the educational process of the Russian Federal Nuclear University (formerly, MEPI, Moscow).

1. Azhibekov A.K., Samarin V.V., **Kuterbekov K.A.** Time dependent calculations for neutron transfer and nuclear breakup processes in Li-11-Be-9 and Li-11+C-12 reactions at low energy // Chinese Journal of Physics Volume 65. 2020, Pages 292-299 DOI:10.1016/j.cjph.2020.01.009. **IF= 2.638**

2. F. Sultanov, Ch. Daulbayev, S. Azat, K. **Kuterbekov, K.**, Bekmyrza, B. Bakbolat, M. Bigaj, Z. Mansurov. Influence of Metal Oxide Particles on Bandgap of 1D Photocatalysts Based on SrTiO<sub>3</sub>/PAN Fibers. Nanomaterials 2020, 10, 1734; doi:10.3390/nano10091734. **IF = 4.3**

3. Urazbekov B.A., Denikin A.S., Lukyanov S.M., Itaco N., Janseitov D.M., Mendibayev K., Burjan V., Kroha V., Mrazek J., Trzaska W., Harakeh M., Etasse D., Stefan I., Verney D., Issatayev T., Penionzhkevich Yu.E., Kuterbekov K.A., Zholdybayev T.K. Clusterization and Strong Coupled-Channels Effects in Deuteron Interaction with 9Be Nuclei // Journal of Physics G: Nuclear and Particle Physics. – 2019. DOI: 10.1088/1361-6471/ab37a6, **IF=2.415**

4. **Kuterbekov K.A. Environmental Monitoring at a Former Uranium Milling Site.** Pollution by Radionuclides at Tailing Ponds of Koshkar-Ata, Kazakhstan. Springer International Publishing AG, part of Springer Nature, 2019.. ISBN 978-3-319-94874-4, ISBN 978-3-319-94875-1 (eBook) <https://doi.org/10.1007/978-3-319-94875-1>; 1st ed. 2018, XV, 267 p.

5. Kabyshev A.M., **Kuterbekov K.A.**, Sobolev Yu.G. et.all. Some Peculiarities of Interactions of Weakly Bound Lithium Nuclei at Near-Barrier Energies. Journal of Physics G: Nucl. and Particle Phys.J.

Phys. G: Nucl. Part. Phys. 45 (2018) 025103 16pp. doi: <https://doi.org/10.1088/1361-6471/45/2/025103> **IF = 2.899**

6. Ugryumov V.Yu., Kuterbekov K.A, Penionzhkevich Yu.E., Sadykov B.M., Sobolev Yu.G. Energy Dependence of the Total Cross Section for the Reaction of  $^4\text{He}$  Ions with Silicon Nuclei // Physics of Atomic Nuclei, 2005, V.68, No. 1, pp. 16 – 21. **IF= 0,491**

7. K.A. Kuterbekov, Nurmukhanbetova A., Ostapchuk P. et. all. Remediation actions on objects and sites of radioactive contaminations in Mangystau oblast of the Republic of Kazakhstan. International conference on remediation of land contaminated by radioactive material residues. Journal of Environmental Radioactivity, 2010, Manuscrip Nu. JENVRAD-D-10-0079. P. 8 – 17