Key Members of the Research Team:

#	Last name, first name, patronymic (if applicable), education, academic degree, academic rank	H-index, ResearcherID, ORCID, Scopus Author ID (if available)	Links to profiles in Scopus, Web of Science, ORCID	Publication list (with links) and patents
1.	Baklanov Viktor Vladimirovich, PhD, Associate Professor	h-index: 10, Web of Science ResearcherID: IBU8740-2023, Scopus Author ID: 16315181100	https://www.scopus.com/authid/detail.uri?authorId=16315181100 https://www.webofscience.com/wos/author/record/19032987	Author of over 130 scientific publications and 9 patents. **Key scientific efforts:** 1. Zhanbolatova G.K., **Baklanov V.V.**, Skakov M.K., Bukina O.S., Kozhahmetov Ye.A., Orazgaliev N.A. Influence of temperature on tungsten carbide formation in a beam plasma discharge // Journal of Physics: Conference Series. – 2021. – Vol. 2064. – 012055 https://doi.org/10.1088/17426596/2064/1/012055 2. Skakov M., Miniyazov A., Batyrbekov E., **Baklanov V.**, Koyanbayev Ye., Gradoboev A., Kozhakhmetov Ye., Sokolov I., Tulenbergenov T., Zhanbolatova G. Influence of the Carbidized Tungsten Surface on the Processes of Interaction with Helium Plasma // Materials. – 2022. – Vol. 15(21), 7821. https://doi.org/10.3390/ma15217821 3. Skakov M., **Baklanov B.**, Kukushkin I., Toleubekov K., Bekmuldin M., Akaev A., Azbergenov M., Dauletkhanov Ye., Toktaushev A. Investigation of the interaction between corium and metal-coolers at the VCG-135 test bench in the conditions of a severe accident // Nuclear Engineering and Design. – 2024. – 424. – 113296. https://doi.org/10.1016/j.nucengdes.2024.113296 4. Skakov M.K., **Baklanov V.V.**, Kukushkin I.M., Bekmuldin M.K., Akaev A.S., Azbergenov M.N., Gradoboev A.V. The main structural-phase states of interaction between model corium of a nuclear reactor and a sacrificial material based on Al2O3 and a lead layer // International Journal of Advanced Nuclear Reactor Design and Technology. – 2024. – 6(1). – 43-56. DOI: 10.1016/j.jandt.2024.09.001 5. Toleubekov K.O., Skakov M.K., **Baklanov V.V.**, Bekmuldin M.K., Akaev A.S. Method of out-of-pile high-temperature tests of low-melting materials in conditions of modeling a severe nuclear reactor accident // International Journal of Advanced Nuclear Reactor Design and Technology. – 2024. – 6(2). – 99-107. https://doi.org/10.1016/j.jandt.2024.10.003. Patents: 1. Patent of the Republic of Kazakhstan for a Utility Model No. 8667. Membrane-Electrode Unit / Skakov M.K., **Baklanov V.V.**, Koyanbayev Ye.T., Zhilkashinova A.M., Kabdrakhmanova S.K., Akatan K., Shaimardan Ye., Kantay N., Pavlov A.V., Miniyazov A.Zh., Sokolov I.A., Tulengbergenov T.R., Kozhakhmetov E.A., Mukhamedova N.M.; Applicant and Patent Holder: RSE NNC RK – No. 2023/0800.2; filed 28.07.2023; published 24.11.2023; Bulletin No. 47. 2. Patent of the Republic of Kazakhstan for an Invention No. 36346. Method for Manufacturing a Solid Oxide Fuel Cell / Skakov M.K., **Baklanov V.V.**, Koyanbayev Ye.T., Zhilkashinova A.M., Kabdrakhmanova S.K., Akatan K., Shaimardan Ye., Kantay N., Pavlov A.V., Miniyazov A.Zh., Sokolov I.A., Tulengbergenov T.R., Kozhakhmetov Ye.A.; Applicant and Patent Holder: RSE NNC RK – No. 2023/0358.1; filed 25.05.2023; published 18.08.2023; Bulletin No. 33. 3. Patent of the Republic of Kazakhstan for a Utility Model No. 7799. Device for Receiving Corium Melt from a Nuclear Reactor Prototype / Skakov M.K., **Baklanov V.V.**, Akaev A.S., Bekmuldin M.K., Mikisha A.V., Toleubekov K.O.; Applicant and Patent Holder: RSE NNC RK – No. 2022/0905.2; filed 18.10.2022; published 20.10.2023; Bulletin No. 42. 4. Patent of the Republic of Kazakhstan for an Invention No. 36605. Device for Producing Hydrogen and Solid Carbon by Microwave Plasma Pyrolysis of Methane / Skakov M.K., Miniyazov A.Zh., **Baklanov V.V.**, Koyanbayev Ye.T., Tulengbergenov T.R., Sokolov I.A., Zhanbolatova G.K., Beysenov Ye.S.; Applicant and Patent Holder: RSE NNC RK – No. 2022/0518.1; filed 25.08.2022; published 16.02.2024; Bulletin No. 7.

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2.	Koyanbayev Yerbolat Taitoleuovich, PhD	h-index: 6
		Web of Science ResearcherID: FEV6850-2022, https://orcid.org/0000-0002-4675-1067, Scopus Author ID: 57193886462
			https://www.scopus.com/authid/detail.uri?authorId=57193886462
			
			https://www.webofscience.com/wos/author/record/29403615
			
			https://orcid.org/0000002-4675-1067
				Author of over 80 scientific publications and 10 patents.
				Key scientific efforts:
				1. **Koyanbayev Ye.T.**, Skakov M.K., Batyrbekov E.G., Deryavko I.I., Sapatayev Ye.Ye., Kozhahmetov Ye.A. The Forecasting of Corrosion Damage of Structural Materials during Dry LongTerm Storage of RD BN-350 SNF with CC-19 SFA // Science and Technology of Nuclear Installations. – 2019. – # 1293060. – 9 pages. DOI: https://doi.org/10.1155/2019/1293060. (IF = 1,082, DB WoS)
				2. **Koyanbayev Ye.T.**, Skakov M.K., Ganovichev D.A., Martynenko Y.A., Sitnikov A.A. Simulation of the Thermal Conditions of Cask with Fuel Assemblies of BN-350 Reactor for Dry Storage // Science and Technology of Nuclear Installations. – 2019. – # 3045897. – 5 pages. DOI: https://doi.org/10.1155/2019/3045897. (IF = 1,082, DB WoS)
				3. Bukina O., Kukushkin I., Sapatayev Ye., Semenina A., **Koyanbayev Ye.**, Sitnikov A. X-ray structural and physical and mechanical studies of uranium-graphite fuel (IGR reactor) // Materials Today: Proceedings. – 2019. DOI: https://doi.org/10.1016/j.matpr.2019.10.148 (IF = 1,09, DB Scopus)
				4. Bukina O., Kukushkin I., Sapatayev Ye., Semenina A., **Koyanbayev Ye.**, Sitnikov A. X-ray structural and physical and mechanical studies of uranium-graphite fuel (IGR reactor) // Materials Today: Proceedings. Vol.25, Part 1, 2020. – P.1723. DOI: 10.1016/j.matpr.2019.10.148
				5. Gordienko Yu., Ponkratov Yu., Kulsartov T., Zaurbekova Zh., **Koyanbayev Ye.**, Chikhray Ye. Research facilities of IAE NNC RK (Kurchatov) for investigations of tritium interaction with structural materials of fusion reactors // Fusion Science and Technology. – 2020. – Vol.76, Issue 6. – P.703-709. https://doi.org/10.1080/15361055.2020.1777667
				6. Skakov M., Miniyazov A., Batyrbekov E., Baklanov V., **Koyanbayev Ye.**, Gradoboev A., Kozhakhmetov Ye., Sokolov I., Tulenbergenov T., Zhanbolatova G. Influence of the Carbidized Tungsten Surface on the Processes of Interaction with Helium Plasma // Materials 2022, 15(21), 7821 https://doi.org/10.3390/ma15217821
				
				Patents:
				1. Patent of the Republic of Kazakhstan for a Utility Model No. 8667. Membrane-Electrode Unit / Skakov M.K., Baklanov V.V., **Koyanbayev Ye.T.**, Zhilkashinova A.M., Kabdrakhmanova S.K., Akatan K., Shaimardan E., Kantay N., Pavlov A.V., Miniyazov A.Zh., Sokolov I.A., Tulengbergenov T.R., Kozhakhmetov E.A., Mukhamedova N.M.; Applicant and Patent Holder: RSE NNC RK – No. 2023/0800.2; filed 28 July 2023; published 24 November 2023; Bulletin No. 47.
				2. Patent of the Republic of Kazakhstan for an Invention No. 36346. Method for Manufacturing a Solid Oxide Fuel Cell / Skakov M.K., Baklanov V.V., **Koyanbayev Ye.T.**, Zhilkashinova A.M., Kabdrakhmanova S.K., Akatan K., Shaimardan Ye., Kantay N., Pavlov A.V., Miniyazov A.Zh., Sokolov I.A., Tulengbergenov T.R., Kozhakhmetov Ye.A.; Applicant and Patent Holder: RSE NNC RK – No. 2023/0358.1; filed 25 May 2023; published 18 August 2023; Bulletin No. 33.
				3. Patent of the Republic of Kazakhstan for an Invention No. 36605. Device for Producing Hydrogen and Solid Carbon by Microwave Plasma Pyrolysis of Methane / Skakov M.K., Miniyazov A.Zh., Baklanov V.V., **Koyanbayev Ye.T**., Tulengbergenov T.R., Sokolov I.A., Zhanbolatova G.K., Beysenov Ye.S.; Applicant and Patent Holder: RSE NNC RK – No. 2022/0518.1; filed 25 August 2022; published 16 February 2024; Bulletin No.

7.	Chektybayev Baurzhan Zhambulovich, PhD, Associate Professor	h-index: 5, Researcher ID: F-5313-2019, Orcid ID: 0000-0003-4578-1798,	https://www.scopus.com/authid/detail.uri?authorId=56674771500	Author of over 50 scientific publications. **Key scientific efforts:**

#	Last name, first name, patronymic (if applicable), education, academic degree, academic rank	H-index, ResearcherID, ORCID, Scopus Author ID (if available)	Links to profiles in Scopus, Web of Science, ORCID	Publication list (with links) and patents
		Scopus Author ID: 56674771500	https://www.webofscience.com/wos/author/record/964280 https://orcid.org/0000-0003-4578-1798	1. **Chektybayev B.**, Zhunisbek S., Kashikbayev Ye., Duisen A., Sokolov I., Tulenbergenov T. First spectroscopic studies in the plasma-beam installation // AIP Advances. – 2024. – Vol. 14 (9): 095218. https://doi.org/10.1063/5.0224254 2. **Chektybayev B.Z.**, Skakov M.K., Tulenbergenov T.R. [et al.] Measurement of plasma parameters in the PBI using the Langmuir probe // Fusion Engineering and Design. – 2024. – Vol.205, 114546. https://doi.org/10.1016/j.fusengdes.2024.114546 3. Tazhibayeva I., Batyrbekov E., Kashykbayev E., Olkhovik D., Zarva D., Zhunisbek S., Duisen A., Zhaksybayeva A., Lee A., Pavlov V., Dokuka V., Khayrutdinov R. Improvement of plasma discharge performance at KTM tokamak // Fusion Engineering and Design. – 2024. – Volume 208, 114684. https://doi.org/10.1016/j.fusengdes.2024.114684 4. Gulkin A.V., **Chektybayev B.Z.** [et al.] Optimization and preparation for the start-up of the plasma ICR heating system at the KTM tokamak // Fusion Engineering and Design. – 2024. – Vol. 206, 114596. https://doi.org/10.1016/j.fusengdes.2024.114596 5. **Chektybayev B.**, Sadykov A., Batyrbekov E., Lee A., Pavlov V. Study of breakdown and plasma formation in the KTM tokamak with the massive conductive vacuum chamber // Fusion Engineering and Design. – 2021. – Vol.163, 112167. DOI 10.1016/j.fusengdes.2020.112167 6. Batyrbekov E., **Chektybayev B.**, Sadykov A. [et al.] Test Results of Active Thermography Method for Plasma-Wall Interaction Studies on the KTM Tokamak // Fusion Engineering and Design. – 2020. – Vol.161, 112014. https://doi.org/10.1016/j.fusengdes.2020.112014
8.	Miniyazov Arman Zhanarbekovich, PhD	h-index in Scopus: 10, h-index in WoS: 4, Author ID in Scopus 57195102430, ResearcherID Web of Science P-7943-2018, ORCID ID: 0000-0002-2188-8075	https://orcid.org/0000-0002-2188-8075 https://www.scopus.com/authid/detail.uri?authorId=57195102430 https://www.webofscience.com/wos/author/record/ 1018260	1. Ponkratov Yu.V., Samarkhanov K.K., Baklanov V.V., Bochkov V.S., Sokolov I.A., **Miniyazov A.Zh.**, Tulenbergenov T.R., Kenzhina I.E., Begentayev M.M. Tulubayev Ye.Yu., Bukina O.S., of tin-lithium CPS under deuterium plasma irradiation conditions // Journal of Nuclear Materials. – 2023.– Vol.587.– # 154754 DOI10.1016/j.jnucmat.2023.154754 (Scopus 86% Nuclear Energy and Engineering; WoS Q1 Nuclear Science & Technology). 2. Skakov M., **Miniyazov A.**, Baklanov V., Gradoboev A., Tulenbergenov T., Sokolov I., Kozhakhmetov Ye., Zhanbolatova G., Kukushkin I. Influence of helium plasma on the structural state of the surface carbide layer of tungsten // AIMS Materials Science. – 2023.– Vol.10.– P.725-740. DOI10.3934/matersci.2023040 (Scopus 53% Materials Science; WoS Q4 Materials Science). 3. Skakov M., Baklanov V., Zhanbolatova G., **Miniyazov A.**, Sokolov I., Kozhakhmetov Ye., Tulenbergenov T., Mukhamedova N., Bukina O., Gradoboev A. The effect of recrystallization annealing on the tungsten surface carbidization in a beam plasma discharge // AIMS Materials Science. – 2023.– Vol.10.– P.541-555. DOI10.3934/matersci.2023030 (Scopus 53% Materials Science; WoS Q4 Materials Science). 4. Skakov M., **Miniyazov A.**, Batyrbekov E., Baklanov V., Koyanbayev Ye., Gradoboev A., Kozhakhmetov Ye., Sokolov I., Tulenbergenov T., Zhanbolatova G. Influence of the Carbidized Tungsten Surface on the Processes of Interaction with Helium Plasma // Materials. – 2022. – Vol. 15(21). – # 7821. https://doi.org/10.3390/ma15217821 (Scopus 64% Materials Science; WoS Q2 Materials Science, Multidisciplinary). 5. Baklanov V., Zhanbolatova G., Skakov M., **Miniyazov A.**, Sokolov I., Tulenbergenov T., Kozhakhmetov Y., Bukina O., Orazgaliev N. Study of the temperature dependence of a carbidized layer formation on the tungsten surface under plasma irradiation // Materials Research Express. – 2022. – Vol.9.– #016403 http://dx.doi.org/10.1088/2053-1591/ac4626. (Scopus 79% Materials Science; WoS Q3 Materials Science, Multidisciplinary).

#	Last name, first name, patronymic (if applicable), education, academic degree, academic rank	H-index, ResearcherID, ORCID, Scopus Author ID (if available)	Links to profiles in Scopus, Web of Science, ORCID	Publication list (with links) and patents
				Patents: 1. Patent of the Republic of Kazakhstan for an Invention No. 35911. Method for High-Temperature Annealing of Metals and Alloys by Electron Beam Treatment in Vacuum and Gas Environments / Skakov M.K., **Miniyazov A.Zh.**, Baklanov V.V., Koyanbayev Ye.T., Tulengbergenov T.R., Sokolov I.A., Zhanbolatova G.K.; Applicant and Patent Holder: RSE NNC RK – No. 2021/0486.1; filed 11.08.2021; published 21.10.2022. 2. Method for Carbiding Tungsten in Methane/Hydrocarbon Plasma / Skakov M.K., Baklanov V.V., Zhanbolatova G.K., Koyanbayev Ye.T., **Miniyazov A.Zh.**, Sokolov I.A., Tulengbergenov T.R.; Notification of Positive Outcome of Formal Examination of Application No. 2023/0223.1, 30.03.2023; State Register of Inventions of the Republic of Kazakhstan, RSE NIIS MJ RK
9.	Mukusheva Maira Kizatovna, Doctor of Technical Sciences, Professor of Physics	h-index: 4 Web of Science ResearcherID: DJZ-1064-2022, Web of Science ResearcherID: FNP-0520-2022, Scopus Author ID: 25028523100	https://orcid.org/0009-0006-8584-5978 https://www.scopus.com/authid/detail.uri?authorId=25028523100 https://www.webofscience.com/wos/author/record/12511467	Author of over 15 scientific publications. **Key scientific efforts:** 1. Baranov S., Spiridonov S., **Mukusheva M.** Application of radiation risks in assessment of STS radioactive contamination effect to population // International Conference on Energy and Development, Environment and Biomedicine – Proceedings. – 2010. – P. 54–57. 2. Spiridonov S.I., Tetenkin V.L., **Mukusheva M.K.**, Epifanova I.E. Regulatory radiation risks for the population and natural objects within the Semipalatinsk Test Site // Radioprotection. – 2009. – Vol. 44(5). – P. 251–257 – https://doi.org/10.1051/radiopro/20095049 3. Tetenkin V.L., Spiridonov S.I., **Mukusheva M.K.**, Karpenko E.I. Estimation of radiation nonregulatory stochastic risks for meadow plants of the Semipalatinsk Test Site // Radioprotection. – 2009. – Vol. 44(5). – P. 259–264 – https://doi.org/10.1051/radiopro/20095050 4. Ospanova G., Mailibayeva G., Tlebayev M., **Mukusheva M.** Environmental change of the Semipalatinsk test site by Nuclear fallout contamination // Environmental change and human security: recognizing and acting on hazard impacts [NATO Science for Peace and Security Series C-Environmental Security], 2008. – P. 449 – 458. – https://doi.org/10.1007/978-1-4020- 8551-2_20 5. Semioshkina N., Voigt G., Fesenko S., Savinkov A., **Mukusheva M.** A pilot study on the transfer of 137Cs and 90Sr to horse milk and meat // Journal of Environmental Radioactivity – 2006. – Vol. 85, Iss. 1 – P. 84-93. – https://doi.org/10.1016/j.jenvrad.2005.06.001
10.	Baklanova Yuliya Yuryevna, Master's degree	h-index: 5 Web of Science ResearcherID: ELC-8930-2022, Scopus Author ID: 57204978369	https://www.scopus.com/authid/detail.uri?authorId=57204978369 https://orcid.org/0000-0002-4054-7831	Author of over 70 scientific publications, 5 patents. **Key scientific efforts:** 1. **Baklanova Yu.** Studying the decontamination process of an irradiated beryllium reflector in a chlorine environment/ PlosOne. – 2025, Q1, 89%. https://doi.org/10.1371/journal.pone.0322723 2. **Baklanova Yu.**, Sapatayev Ye., Samarkhanov K. High-Temperature Corrosion Behavior of 12Cr18Ni10Ti Grade Austenitic Stainless Steel Under Chlorination Conditions // Metals. – 2025. – Vol. 15(9). – P.1052, Q2, 78%. https://doi.org/10.3390/met15091052 3. Syssaletin A., Batyrbekov E., **Baklanova Y.**, Yermakov V., Nauryzbayev R., Marks N., Kips R., Tompson A., Dallas L., Stratz A. Advancing nuclear forensics competencies at the National Nuclear Center of the Republic of Kazakhstan and conceptual development of a National Nuclear Forensics Library // Springer Nature Link Journal of Radioanalytical and Nuclear Chemistry. – 2025. – Volume 334. – P. 8977–8987, Q3, 61%. https://doi.org/10.1007/s10967-025-10452-0

#	Last name, first name, patronymic (if applicable), education, academic degree, academic rank	H-index, ResearcherID, ORCID, Scopus Author ID (if available)	Links to profiles in Scopus, Web of Science, ORCID	Publication list (with links) and patents
				4. Samarkhanov K.K., **Baklanova Yu.Yu.**, Bukina O.S., Baklanov V.V., Koyanbayev Y.T., Kukushkin I.M., Bolshinsky I.M., Bateman K.J. Development of the technological process for the IGR reactor's highly-enriched irradiated uranium-graphite fuel immobilization // Journal of Nuclear Materials. – 2025. – Volume 610. – 155801, Q1, 86%. https://doi.org/10.1016/j.jnucmat.2025.155801 5. Gnyrya V., Gordienko Yu., Surayev A., **Baklanova Yu.**, Vityuk G.A. et al. Experimental device design justification for radiation resistance tests of single-mode optical fibers and FBG-based sensors at the IVG.1M reactor // Journal of Physics: Conference Series 2155. – 2022. – 012019. https://doi.org/10.1088/1742-6596/2155/1/012019 (Scopus – 18%, Q4, CiteScore –0,8) 6. Vurim A., Mukhamedova N., **Baklanova Yu.**, Syssaletin A., Akaev A. Information and Analytical System for Processing of Research Results to Justify the Safety of Atomic Energy // Appl. Sci. – 2022. – Vol. 12, 9705. https://doi.org/10.3390/app12199705 7. Kulsartov T.V., Udartsev S.V., Samarkhanov K.K., Gordienko Y.N., Ponkratov Y.V., **Baklanova Y.Y.**, Zaurbekova Z.A., Kaynazarova A.E., Podoinikov M.A., Kylyshkanov M.K., Tulubayev Y.Y., Bochkov V.S., Obgolts O.Y. The temperature-time dependence of the amount and type of niobium beryllides formed during the synthesis of the binary intermetallic compound NbBe3 // Intermetallics. – 2023. – Vol. 163, 108065. https://doi.org/10.1016/j.intermet.2023.108065 8. Vurim A., Mukhamedova N., **Baklanova Yu.**, Syssaletin A., Akayev A. Information and analytical system as a promising database used to justify the safety of nuclear energy // Nuclear Engineering and Design. – 2023. – Volume 415. – P. 112704. https://doi.org/10.1016/j.nucengdes.2023.112704
11.	Korovikov Alexandr Gennadiyeich, PhD	h-index: 4 Researcher ID: MGT-6895-2025 Orcid ID: 0009-0005-1901-0748 Scopus Author ID 57193884887	https://www.scopus.com/authid/detail.uri?authorId=57193884887 https://www.webofscience.com/wos/author/record/MGT-6895-2025 https://orcid.org/0009-0005-1901-0748	Author of over 40 scientific publications. **Key scientific efforts:** 1. Kaplienko V., Lemehov V.V., Cherepnin Y.S., Moiseev A.V., Zhirnov A.P., Ivanyuta A.N., Rozhdestvensky I.M., Loginov D.Yu., Mezhina E.R., Izhutov A.L., Zvir Ye.A., Shevlyakov G.V., Volkova I.N., Batyrbekov E.G., Baklanov V.V., **Korovikov A.G.**, Kotlyar A.N., Miller A.A., Irkimbekov R.A., Vurim A.D. Tests of Fuel Elements with Uranium-Plutonium Nitride Fuel in an IGR Pulsed Reactor**.** Atomic Energy, 2023, Vol. 134, No. 5-6, pp. 275–282. https://doi.org/10.1007/s10512-024-01055-1 2. Chektybayev B., Zhunisbek S., Tazhibayeva I., Olkhovik D., Batyrbekov E., Zarva D., **Korovikov A.**, Lee A., Pavlov V., Kashikbayev E., Zhaksybayeva A., Duisen A. Overview of the first experiments at KTM tokamak to obtain plasma discharges // Fusion Engineering and Design. – 2023. – Volume 194, 113847. https://doi.org/10.1016/j.fusengdes.2023.113847 3. Chektybayev B., Sadykov A., Batyrbekov E., Skakov M., Zarva D., Tazhibayeva I., **Korovikov A.**, Kashikbayev Ye., Olkhovik D., Savkin V., Khvostenko P., Belbas I., Sergeyev D., Kavin A., Lee A., Pavlov V. Study of breakdown and plasma formation in the KTM tokamak with the massive conductive vacuum chamber // Fusion engineering and Design. – 2021. – Volume 163, 112167. https://doi.org/10.1016/j.fusengdes.2020.112167
12.	Yakovlev Vitaliy Viktorovich, higher education	h- index: 1, Scopus Author ID: 57197688602	https://www.scopus.com/authid/detail.uri?authorId=57197688602	Patents: Patent of the Republic of Kazakhstan for a Utility Model No. 7642. Method for Measuring Ionizing Radiation Fields Outside the Vacuum Chamber of a Tokamak Device / Korovikov A.G., **Yakovlev V.V.**, Izbaskhanova A.T.; Applicant and Patent Holder: RSE NNC RK – No. 2022/0731.2; filed 26 August 2022; published 02.12.2022; Bulletin No. 48.
13.	Pospelov Vitaliy Alekseevich,	h-index: 0	-	1. **Pospelov V.A.**, Baklanov V.V., Levin A.G. Studies on the Further Management of Spent Nuclear Fuel of the BN-350 Reactor Facility. KazNAEN Bulletin, 2017, No. 3, pp. 61–63.

#	Last name, first name, patronymic (if applicable), education, academic degree, academic rank	H-index, ResearcherID, ORCID, Scopus Author ID (if available)	Links to profiles in Scopus, Web of Science, ORCID	Publication list (with links) and patents
	higher education			2. **Pospelov V.A.**, Baklanov V.V., Korovikov P.G. Comparative Analysis of Reactor Technologies. NNC RK Bulletin, 2019, No. 4, pp. 73–78. 3. **Pospelov V.A.**, Korovikov A.G., Davydenko D.I., Kharchenko D.A. Reliable Generation Source. Man. Energy. Atom., 2021, No. 2 (36), pp. 82–89. 4. Davydenko D.I., Korovikov A.G., Korovikov P.G., **Pospelov V.A.** Challenges of Certification of Kazakhstan-Made Transport Packaging Sets and Ways to Address Them. In: Proceedings of the International Educational Online Conference "Education – the Basis of Eurasian Cooperation", Dedicated to the 85th Anniversary of Shakarim University, 2019, pp. 44–46. 5. Davydenko D.I., Korovikov A.G., **Pospelov V.A**. Concept for Creating a Test Facility for Transport Packaging Sets. NNC RK Bulletin, 2020, No. 4, pp. 53–60. 6. Seisenbayeva M.K., **Pospelov V.A.**, Abulgazinova D.I., Baklanova Y.Y. Analysis of RW and SNF Management Technologies in the Context of Nuclear Energy Development. NNC RK Bulletin, 2025, Issue 3, pp. 103–112. 7. Abulgazinova D.I., Mukhamediev A.K., Seisenbayeva M.K., **Pospelov V.A.**, Yakovlev V.V., Baklanova Y.Y., Korovikov A.G. Justification of the Safety of Liquid Radioactive Waste Transportation. NSC RK Bulletin, 2025, Issue 3, pp. 129–135. 8. Baklanov V.V., **Pospelov V.A.**, Sysaletin A.V., Baklanova Y.Y. Some Practical Aspects of Radioactive Waste Management for Small Modular Reactors Participating in the "FIRST" Program. NNC RK Bulletin, 2025, Issue 4, pp.166–177.

14.	Kukushkin Ivan Mikhailovich, higher education	h-index: 5,
		Web of Science Researcher ID: IEH-9788-2023,
		Scopus Author ID: 57194586367
			https://www.scopus.com/authid/detail.uri?authorId=57194586367
			
			https://www.webofscience.com/wos/author/record/9993335
				Author of over 9 scientific publications.
				Key scientific efforts:
				1. Bukina O., **Kukushkin I.**, Sapatayev Ye., Semenina A., Koyanbayev Ye., Sitnikov A. X-ray structural and physical and mechanical studies of uranium-graphite fuel (IGR reactor) // Materials Today: Proceedings. – 2019. DOI: https://doi.org/10.1016/j.matpr.2019.10.148 (IF = 1,09, БД Scopus)
				2. Bukina O., **Kukushkin I.**, Sapatayev Ye., Semenina A., Koyanbayev Ye., Sitnikov A. X-ray structural and physical and mechanical studies of uranium-graphite fuel (IGR reactor) // Materials Today: Proceedings. Vol.25, Part 1, 2020. – P.17- 23. DOI: 10.1016/j.matpr.2019.10.148
				3. Mukhamedov N.Ye., Tskhe V.K., Sapatayev Ye.Ye., **Kukushkin I.M.** Microstructure and mechanical properties of the LWR solidified melt prototype obtained by the out-of-pile experiment // Annals of Nuclear Energy. – 2021. – Vol.163. – No., full name (if applicable), education, scientific degree, scientific rank, H-index, ResearcherID, ORCID, Scopus Author ID (if applicable), profile links for Scopus, Web of Science, ORCID, publication list (with links), patents 108594. https://doi.org/10.1016/j.anucene.2021.108594
				4. Skakov M., Baklanov V., Akaev A., **Kukushkin I.**, Bekmuldin M., Toleubekov K., Gradoboev A., Stepanova O. On the Possibility of Forming a Corium Pool by Induction Heating in a Melt Trap of the Lava-B Facility // Applied Sciences (Switzerland) Open Access. – Vol.13, Issue 4. – 2023. – Article number 2480. DOI https://doi.org/10.3390/app13042480
				5. Skakov M.K., Miniyazov A.Z., Baklanov V.V., Gradoboev A.V., Tulenbergenov T.R., Sokolov I.A., Kozhakhmetov Y.A., Zhanbolatova G.K., **Kukushkin I.M.** Influence of helium plasma on the structural state of the surface carbide layer of tungsten // AIMS Materials Science (Percentile 53). – 2023. – Vol. 10(4). – P.725–740. https://doi.org/10.3934/matersci.2023 040.
				
				Patents:

#	Last name, first name, patronymic (if applicable), education, academic degree, academic rank	H-index, ResearcherID, ORCID, Scopus Author ID (if available)	Links to profiles in Scopus, Web of Science, ORCID	Publication list (with links) and patents
				1. Patent of the Republic of Kazakhstan for an Invention No. 32057. Method for Producing Siliconized Graphite / Skakov M.K., Deryavko I.I., Baklanov V.V., Kurbanbekov Sh.R., Koyanbayev Ye.T., Miniyazov A.Zh., **Kukushkin I.M.**, Sapatayev Ye.Ye., Mukhamedova N.M.; Applicant and Patent Holder: RSE NNC RK – No. 2015/0993.1; filed 01.09.2015; published 15 May 2017; Bulletin No. 9. 2. Patent of the Republic of Kazakhstan for an Invention No. 30667. Method for Applying a Protective Zirconium Carbide Barrier Coating on the Inner Surface of a Graphite Crucible / Baklanov V.V., Skakov M.K., Zhdanov V.S., Kukushkin I.M., Kurbanbekov Sh.R.; Applicant and Patent Holder: RSE NNC RK – No. 2014/1099.1; filed 18 August 2014; published 15.12.2015; Bulletin No. 12.

15.	Bukina Olga Sergeevna, PhD student of Shakarim University	h-index: 7,
		Web of Science ResearcherID: GYA-8484-2022,
		https://orcid.org/0000-0002-2564-0421,
		Scopus Author ID: 56532463200,
		SciProfiles: 2431128
			https://www.scopus.com/authid/detail.uri?authorId=56532463200
			
			https://www.webofscience.com/wos/author/record/2022815
			
			https://orcid.org/0000-0002-2564-0421
				Author of over 15 scientific publications.
				Key scientific efforts:
				1. Samarkhanov K.K.; Baklanova Yu.Yu.; **Bukina O.S.**; Baklanov V.V.; Koyanbayev Ye.T.; Kukushkin I.M.; Bolshinsky I.M.;Bateman K.J. Development of the technological process for the IGR reactor's highly-enriched irradiated uranium-graphite fuel immobilization // Journal of Nuclear Materials. – 2025. DOI: 10.1016/j.jnucmat.2025.155801
				2. **Bukina O.S.**; Baklanova Yu.Yu.; Azbergenov M.N.; Kuksa M.A. Methodology of selecting cement matrix composition for immobilization of irradiated uranium-graphite fuel // NNC RK Bulletin. – 2024. DOI: 10.52676/1729-7885-2024-4-43-53
				3. Skakov M.K.; **Bukina O.S.**; Baklanova Yu.Yu.; Koyanbaev E.T.; Baklanov V.V. Selecting of matrix composition for immobilization of irradiated fuel of the IGR reactor // Bulletin of Shakarim University. Technical Sciences. – 2024. DOI: 10.53360/2788-7995-2024-1(13)-37
				4. **Bukina O.**, Kukushkin I., Sapatayev Ye., Semenina A., Koyanbayev Ye., Sitnikov A. X-ray structural and physical and mechanical studies of uranium-graphite fuel (IGR reactor) // Materials Today: Proceedings. – 2019. DOI: https://doi.org/10.1016/j.matpr.2019.10.148 (IF = 1,09, БД Scopus)
				5. **Bukina O.**, Kukushkin I., Sapatayev Ye., Semenina A., Koyanbayev Ye., Sitnikov A. X-ray structural and physical and mechanical studies of uranium-graphite fuel (IGR reactor) // Materials Today: Proceedings. Vol.25, Part 1, 2020. – P.17- 23. DOI: 10.1016/j.matpr.2019.10.148
				6. Skakov M.K., Sokolov I.A., Miniyazov A.Zh., Tulenbergenov T.R., Sapatayev Ye.Ye., Orazgaliyev N.A., **Bukina O.S.** Changes in structure of the surface and edges of beryllium plates as a result of thermal cycling tests // Fusion Engineering and Design. 183 (2022), 113251. https://doi.org/10.1016/j.fusengdes.2022.113251
				7. Skakov M., Batyrbekov E., Sokolov I., Miniyazov A., Tulenbergenov T., Sapataev Ye., Orazgaliyev N., **Bukina O.**, Zhanbolatova G., Kozhakhmetov Y. Influence of Hydrogen Plasma on the Surface Structure of Beryllium // Materials. – 2022. – Vol.15 (18). – № 6340 https://doi.org/10.3390/ma15186340
				8. Skakov M., Baklanov V., Zhanbolatova G., Miniyazov A., Sokolov I., Kozhakhmetov Ye., Tulenbergenov T., Mukhamedova N., **Bukina O.**, Gradoboev A. The effect of recrystallization annealing on the tungsten surface carbidization in a beam plasma discharge // AIMS Materials Science 2023. – Vol.10, Issue 3. – P.541-555. DOI: 10.3934/matersci.2023030
				9. Ponkratov Yu.V., Samarkhanov K.K., Baklanov V.V., Bochkov V.S., Sokolov I.A., Miniyazov A.Zh., Tulenbergenov T.R., Kenzhina I.E., Begentayev M.M., Tulubayev Ye.Yu., **Bukina O.S.**, Orazgaliyev N.A., Saparbek E. High-temperature test of tin-lithium CPS under deuterium plasma irradiation conditions // Journal of Nuclear Materials. – Vol. 587, 154754. https://doi.org/10.1016/j.jnucmat.2023.154754

#	Last name, first name, patronymic (if applicable), education, academic degree, academic rank	H-index, ResearcherID, ORCID, Scopus Author ID (if available)	Links to profiles in Scopus, Web of Science, ORCID	Publication list (with links) and patents
16.	Kuksa Miroslav Alexandrovich, higher education	h-index: 0	-	1. Bukina O.S., Baklanova Y.Y., Azbergenov M.N., **Kuksa M.A**. Methodology for Selecting the Composition of a Cement Matrix for Immobilization of Irradiated Uranium-Graphite Fuel. NNC RK Bulletin, 2024, Issue 4, pp. 43–53. https://doi.org/10.52676/1729-7885-2024-4-43-53
17.	Nokanova Amina Dosankyzy, higher education	h- index: 0	https://orcid.org/0009-0006-7399-9785	1. **Nokanova A.D.**, Kveglis L.I., Pavlov A.V., Fadeev T.V., Belokurova K. Structural features of beryllium ceramics // Endless Light in Science. – 2024. – e-ISSN(Online) 2709-1201. – P. 51–53. DOI: https://doi.org/10.24412/2709-1201-2024-7-54-57 2. **Nokanova A.D.**, Sakenova R.E., Kveglis L.I., Pavlov A.V., Fadeev T.V. Structural Features of Beryllium Ceramics // Endless Light in Science. – 2024. – Issue 4. – P. 125–127. DOI: https://doi.org/10.24412/2709-1201-2024-128-131 3. **Nokanova A.D.**, Kveglis L.I. Structural and property modification oxide - beryllium ceramics induced by electron irradiation // 2nd International workshop on "Recent advances in plasma physics and technology". – Almaty c., 2024. – 71-73 p. 4. **Nokanova A.D.**, Kveglis L.I. Structural and property modification oxide - beryllium ceramics induced by electron irradiation // The fourth Annual Conference of the Kazakh Physical Society – Ust-Kamenogorsk, 2025. – 48 p.
18.	Gordiyenko Yuri Nikolayevich, higher education	h- index: 13, Web of Science ResearcherID: W-2790-2019 https://orcid.org/0000-0002-6108-2746, Scopus Author ID: 55641763700	https://www.scopus.com/authid/detail.uri?authorId=55641763700 https://www.webofscience.com/wos/author/record/161756	Author of over 70 scientific publications, 10 patents. **Key scientific efforts:** 1. **Gordienko Yu.**, Khasenov M., Batyrbekov E., Samarkhanov K., Ponkratov Yu., Amrenov A. Emission of noble gases and their mixtures with lithium excited by the products of the 6Li(n,α)3H nuclear reaction. Laser and Particle Beams. – 2019. – V. 37, Is. 1.– P.18-24. https://doi.org/10.1017/S0263034619000120 2. **Gordienko Yu.**, Ponkratov Yu., Kulsartov T., Zaurbekova Zh., Koyanbayev Ye., Chikhray Ye. Research facilities of IAE NNC RK (Kurchatov) for investigations of tritium interaction with structural materials of fusion reactors // Fusion Science and Technology. – 2020. – V. 76, Is. 6. – P. 703-709. https://doi.org/10.1080/15361055.2020.1777667 3. Tazhibayeva I., Ponkratov Yu., Lyublinsky I., **Gordienko Yu.**, Vertkov A., Tulubayev Ye., Samarkhanov K., Bochkov V., Kozhakhmetov Ye., Orazgaliyev N. Study of liquid tin-lithium alloy interaction with structural materials of fusion reactor at high temperatures // Nuclear Materials and Engineering. – 2022. – V. 30:101152. https://doi.org/10.1016/j.nme.2022.101152 4. Ponkratov Yu., **Gordienko Yu.**, Baklanov V., Tulubayev Ye., Koyanbayev Ye., Bochkov V., Saparbek E. Investigation of tritium and helium generation and release from tin-lithium alloy under neutron irradiation // Journal of Nuclear Materials. – 2025. –V. 615:155995. https://doi.org/10.1016/j.jnucmat.2025.155995 5. Ponkratov Yu., Samarkhanov K., Koyanbayev Ye., Baklanova Yu., **Gordienko Yu.**, Tulubayev Ye., Martynenko Ye., Bochkov V., Sabitova R., Saparbek E. Technique of reactor experiments of tin-lithium alloy interaction with hydrogen isotopes under neutron irradiation conditions // Fusion Science and Technology. – 2025. – V. 81, P. 300-309. https://doi.org/10.1080/15361055.2024.2388421 6. Ponkratov Yu.V., Samarkhanov K.K., Baklanov V.V., **Gordienko Yu.N.**, Kenzhina I.E., Bochkov V.S., Tulubayev Ye.Yu., Orazgaliyev N.A., Saparbek E. Investigation of the interaction of liquid tin-lithium alloy with austenitic stainless steel at high temperatures // Fusion Engineering and Design. – 2023. – V. 191:113560. https://doi.org/10.1016/j.fusengdes.2023.113560 7. Ponkratov Yu.V., Samarkhanov K.K., Baklanov V.V., Bochkov V.S., Sokolov I.A., Miniyazov A.Zh., Tulenbergenov T.R., Kenzhina I.E., Begentayev M.M., Tulubayev Ye.Yu., Bukina O.S., Orazgaliyev N.A., Saparbek E.

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				High-temperature test of tin-lithium CPS under deuterium plasma irradiation conditions // Journal of Nuclear Materials. – 2023. – V. 587:154754. https://doi.org/10.1016/j.jnucmat.2023.154754 8. Kulsartov T., Ponkratov Yu., Zaurbekova Zh., **Gordienko Yu.**, Tazhibayeva I., Kenzhina I., Samarkhanov K., Tulubayev Ye., Shaimerdenov A., Udartsev S. Thermal desorption of tritium and helium from lithium ceramics Li2TiO3+5mol% TiO2 after neutron irradiation // Journal of Nuclear Materials. – 2023. – V. 585:154609. https://doi.org/10.1016/j.jnucmat.2023.154609
19.	Chernova Larisa Vladislavovna, higher education	h- index: 0	-	Patents: 1. Patent of the Republic of Kazakhstan for an Invention No. 33038. Method for Producing ^{233}U in a Thermal Reactor / Kotov V.M., **Chernova L.V.**, Erygina L.A.; Applicant and Patent Holder: RSE NSC RK – No. 2016/1094.1; filed 28 November 2016; published 27 August 2018; Bulletin No. 32.
20.	Sokolov Igor Andreevich, Master's degree	h- index – 10 ResearcherIDAAE-2867-2022 ORCID 0000-0002-7665-4022 Scopus ID: 56740171000	https://www.scopus.com/authid/detail.uri?authorId=56740171000 https://www.webofscience.com/wos/author/record/AAE-2867-2022 https://orcid.org/0000-0002-7665-4022	Author of over 50 scientific publications and 10 patents. **Key scientific efforts:** 1. Skakov M.K., **Sokolov I.A.**, Miniyazov A.Zh., Tulenbergenov T.R., Sapataev Ye.Ye., Orazgaliyev N.A., Bukina O.S., Stepanova O.A. Effect of cyclic thermal load on beryllium // Materials Today: Proceedings. – 2023. – Volume 81, Part. – Pages 1182-1185 (Citations – 1). 2. Skakov M., Baklanov V., Zhanbolatova G., Miniyazov A., **Sokolov I.**, Kozhakhmetov Ye., Tulenbergenov T., Mukhamedova N., Bukina O., Gradoboev A. The effect of recrystallization annealing on the tungsten surface carbidization in a beam plasma discharge // AIMS Materials Science. – 2023. – Volume 10. – P. 541-555. doi: 10.3934/matersci.2023030 (Citations – 6). 3. Skakov M., Miniyazov A., Baklanov V., Gradoboev A., Tulenbergenov T., **Sokolov I.**, Kozhakhmetov Ye., Zhanbolatova G.K., Kukushkin I. Influence of helium plasma on the structural state of the surface carbide layer of tungsten // AIMS Materials Science. – 2023. – Volume 10, Issue 4. – P.725-740. doi: 10.3934/matersci.2023040 (Citations – 3). 4. Skakov M., Miniyazov A., Batyrbekov E., Baklanov V., Koyanbayev Ye., Gradoboev A., Kozhakhmetov Ye., **Sokolov I.**, Tulenbergenov T., Zhanbolatova G. Influence of the Carbidized Tungsten Surface on the Processes of Interaction with Helium Plasma // Materials. – 2022. – Vol.15(21). – P.7821. https://doi.org/10.3390/ma15217821 (Citations – 9). 5. Baklanov V., Zhanbolatova G., Skakov M., Miniyazov A., **Sokolov I.**, Tulenbergenov T., Kozhakhmetov Ye., Bukina O., Orazgaliev N. Study of the Temperature Dependence of a Carbidized Layer Formation on the Tungsten Surface Under Plasma Irradiation // Materials Research Express. – 2022. – Vol.9. – P.016403 (Citations – 14). 6. Skakov M.K., **Sokolov I.A.**, Miniyazov A.Zh., Tulenbergenov T.R., Sapatayev Ye.Ye., Orazgaliyev N.A., Bukina O.S. Changes in structure of the surface and edges of beryllium plates as a result of thermal cycling tests // Fusion Engineering and Design. – 2022. – Vol. 183, 113251 https://doi.org/10.1016/j.fusengdes.2022.113251 (Citations – 8). 7. Skakov M., Batyrbekov E., **Sokolov I.**, Miniyazov A., Tulenbergenov T., Sapataev Ye., Orazgaliyev N., Bukina O., Zhanbolatova G., Kozhakhmetov Ye. Influence of Hydrogen Plasma on the Surface Structure of Beryllium // Materials. – 2022. – Vol.15(18). – № 6340 https://doi.org/10.3390/ma15186340 (Citations – 13). 8. Skakov M., Zhanbolatova G., Miniyazov A., Tulenbergenov T., **Sokolov I.**, Sapatayev Y., Kozhakhmetov Y., Bukina O. Impact of High-Power Heat Load and W Surface Carbidization on its Structural-Phase Composition and Properties // Fusion Science and Technology. – 2021. – Vol.77. – P. 57-66. (Citations – 11).

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				9. Skakov M., Kozhakhmetov Y., Mukhamedova N., Miniyazov A., **Sokolov I.**, Urkunbay A., Zhanbolatova G., Tulenbergenov T. Effect of a High-Temperature Treatment on Structural-Phase State and Mechanical Properties of IMC of the Ti-25Al-25Nb // System. Materials. – 2022. – Vol.15. – P.5560. – https://doi.org/10.3390/ma15165560 (Citations – 12). 10. Skakov M.K., Miniyazov A.Zh., Tulenbergenov T.R., **Sokolov I.A.**, Zhanbolatova G., Kaiyrbekova A.Zh., Agatanova A.A. Hydrogen production by methane pyrolysis in the microwave discharge plasma // AIMS Energy. – 2024. – Volume 12. – P.548-560. https://doi.org/10.3934/energy.2024026 (Citations – 7). 11. Miniyazov A., Skakov M., Tulenbergenov T., **Sokolov I.**, Mukhamedova N., Agatanova A., Sabyrtaeva A., Akhmedi T. Structural evolution of carbon from methane pyrolysis in microwave plasma // Carbon Trends. – 2025. – Volume 21. https://doi.org/10.1016/j.cartre.2025.100552 12. Miniyazov. A., Skakov M., Mukhamedova N., **Sokolov I.A.**, Sabyrtaeva A., Oken O., Zhakiya R., Ospanova Zh. Structural and Phase Characteristics of LaNi5-Based Materials Modified with Ti, Mn, and Co // Alloys. – 2025. – Vol.4 (4). https://doi.org/10.3390/alloys4040025.
21.	Mukhamedova Nuriya Meiramkanovna, PhD	h- index in Scopus: 8, h- index in WoS: 4, Author ID in Scopus 57191189373, ORCID ID https://orcid.org/0000-0003-4189-6539, Researcher ID Web of Science AAQ-8845-2020	https://orcid.org/0000-0003-4189-6539 https://www.scopus.com/authid/detail.uri?authorId=57191189373	1. **Mukhamedova N.M.**, Kozhakhmetov E.A., Skakov M.K., Mukhamedzhanova R.M., Kurbanbekov Sh.R. Effect of Mechanochemical Activation on the Formation of the Orthorhombic Phase in the Ti–Al–Nb System. KazNTU Bulletin, 2019, No. 5 (135), pp. 115–120. https://vestnik.satbayev.university/index.php/journal/issue/view/48/47 2. Kozhakhmetov Ye., Skakov M., Wieleba W., Kurbanbekov Sh., **Mukhamedova N.**, Evolution of intermetallic compounds in Ti-Al-Nb system by the action of mechanoactivation and spark plasma sintering, AIMS Materials Science. 2020, Vol. 2. P. 182-191. (FWCI 0,38, Quartile Q3, Percentile 45). https://doi.org/10.3934/matersci.2020.2.182. 3. Skakov M.; Kozhakhmetov Y.; **Mukhamedova N.**; Miniyazov A.; Sokolov I.; Urkunbay A.; Zhanbolatova G.; Tulenbergenov T. Effect of a High-Temperature Treatment on Structural-Phase State and Mechanical Properties of IMC of the Ti-25Al-25Nb at.% System. Materials 2022, 15, 5560. (FWCI 0,34, Quartile Q2, Percentile 70) https://doi.org/10.3390/ma15165560 4. **Mukhamedova N.M.**, Skakov M.K.., Wieleba W. Determination of phase composition and mechanical properties of surface of the material obtained on the basis of silicon and carbon by spark-plasma sintering method. AIMS Materials Science.– 2018.– 6(1).– pp. 1-9. https://doi.org/10.3934/matersci.2019.1.1 (Quartile Q3, Percentile 45). Patents: 1. Utility Model Patent of the Republic of Kazakhstan No. 5809. Method for Producing Hydrogen-Storage Rechargeable IMS / Kozhakhmetov Ye.A., Batyrbekov E.G., Skakov M.K., Kurbanbekov Sh.R., Mukhamedzhanova R.M., **Mukhamedova N.M.**; filed 29.12.2021.
22.	Ponkratov Yuri Valentinovich, Candidate of Physical and Mathematical Sciences, PhD	h- index: 13 Researcher ID: O-7466-2017 Orcid ID: 0000-0003-2794-2041 Scopus Author ID 55794353100	https://www.webofscience.com/wos/author/record/1146185 https://orcid.org/0000-0003-2794-2041	Author of over 70 scientific publications, 10 patents. **Key scientific efforts:** 1. **Ponkratov Yu.**, Gordienko Yu., Baklanov V., Tulubayev Ye., Koyanbayev Ye., Bochkov V., Saparbek E. Investigation of tritium and helium generation and release from tin-lithium alloy under neutron irradiation // Journal of Nuclear Materials. – 2025. –V. 615:155995. https://doi.org/10.1016/j.jnucmat.2025.155995 2. **Ponkratov Yu.**, Samarkhanov K., Koyanbayev Ye., Baklanova Yu., Gordienko Yu., Tulubayev Ye., Martynenko Ye., Bochkov V., Sabitova R., Saparbek E. Technique of reactor experiments of tin-lithium alloy interaction

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			https://www.scopus.com/authid/detail.uri?authorId=55794353100	with hydrogen isotopes under neutron irradiation conditions // Fusion Science and Technology. – 2025. – V. 81, P. 300-309. https://doi.org/10.1080/15361055.2024.2388421 3. **Ponkratov Yu.V.**, Samarkhanov K.K., Baklanov V.V., Gordienko Yu.N., Kenzhina I.E., Bochkov V.S., Tulubayev Ye.Yu., Orazgaliyev N.A., Saparbek E. Investigation of the interaction of liquid tin-lithium alloy with austenitic stainless steel at high temperatures // Fusion Engineering and Design. – 2023. – V. 191:113560. https://doi.org/10.1016/j.fusengdes.2023.113560 4. **Ponkratov Yu.V.**, Samarkhanov K.K., Baklanov V.V., Bochkov V.S., Sokolov I.A., Miniyazov A.Zh., Tulenbergenov T.R., Kenzhina I.E., Begentayev M.M., Tulubayev Ye.Yu., Bukina O.S., Orazgaliyev N.A., Saparbek E. High-temperature test of tin-lithium CPS under deuterium plasma irradiation conditions // Journal of Nuclear Materials. – 2023. – V. 587:154754. https://doi.org/10.1016/j.jnucmat.2023.154754 5. Kulsartov T., **Ponkratov Yu.**, Zaurbekova Zh., Gordienko Yu., Tazhibayeva I., Kenzhina I., Samarkhanov K., Tulubayev Ye., Shaimerdenov A., Udartsev S. Thermal desorption of tritium and helium from lithium ceramics Li2TiO3+5mol% TiO2 after neutron irradiation // Journal of Nuclear Materials. – 2023. – V. 585:154609. https://doi.org/10.1016/j.jnucmat.2023.154609 6. Gordienko Yu., **Ponkratov Yu.**, Kulsartov T., Zaurbekova Zh., Koyanbayev Ye., Chikhray Ye. Research facilities of IAE NNC RK (Kurchatov) for investigations of tritium interaction with structural materials of fusion reactors // Fusion Science and Technology. – 2020. – V. 76, Is. 6. – P. 703-709. https://doi.org/10.1080/15361055.2020.1777667 7. Tazhibayeva I., **Ponkratov Yu.**, Lyublinsky I., Gordienko Yu., Vertkov A., Tulubayev Ye., Samarkhanov K., Bochkov V., Kozhakhmetov Ye., Orazgaliyev N. Study of liquid tin-lithium alloy interaction with structural materials of fusion reactor at high temperatures // Nuclear Materials and Engineering. – 2022. – V. 30:101152. https://doi.org/10.1016/j.nme.2022.101152 9. Kulsartov T., Kenzhina I., **Ponkratov Yu**., Gordienko Yu., Zaurbekova Zh., Samarkhanov K., Askerbekov S., Kenzhin Ye., Yelishenkov A.B. Investigation of the interaction of deuterium with Sn73Li27 tin-lithium alloy // Nuclear Materials and Engineering. – 2024. –V. 41:101825 https://doi.org/10.1016/j.nme.2024.101825 10. Kenzhin E.A., Kenzhina I.E., Kulsartov T.V., **Ponkratov Yu.V.**, Gordienko Yu.N., Bochkov V.S., Samarkhanov K.K., Shaimerdenov A.A., Askerbekov S.K., Udartsev S. Study of interaction of hydrogen isotopes with titanium beryllide (Be12Ti) // Fusion Engineering and Design. – 2023. – V. 191:113738. https://doi.org/10.1016/j.fusengdes.2023.113738
23.	Samarkhanov Kuanysh Kanatuly, PhD	h-index: 11, Web of Science ResearcherID: AAM-4512-2020, Scopus Author ID: 57202454611, SciProfiles: 2542641	https://www.webofscience.com/wos/author/record/1993532 https://www.scopus.com/authid/detail.uri?authorId=57202454611 https://orcid.org/0000-0003-3417-7878	Author of over 50 scientific publications, 4 patents. **Key scientific efforts:** 1. **Samarkhanov K.**, Arita Y., Batyrbekov E., Vityuk V., Baklanov V., Baklanova Yu., Sapatayev Ye., Niino K., Tanaka S., Yoshikawa T. An experimental study using CeO_2, ZrO_2, and SUS316L powders as simulated nuclear fuel materials to examine the process of fuel debris formation. *Journal of Nuclear Materials*. 2026, 619, 156286. https://doi.org/10.1016/j.jnucmat.2025.156286 2. **Samarkhanov K.K.**, Baklanova Yu.Y., Bukina O.S., Baklanov V.V., Koyanbayev Y.T., Kukushkin I.M., Bolshinsky I.M., Bateman K.J. Development of the technological process for the IGR reactor's highly-enriched irradiated uranium-graphite fuel immobilization. *Journal of Nuclear Materials*. 2025. 610, 155801. https://doi.org/10.1016/j.jnucmat.2025.155801 3. **Samarkhanov K.**, Ponkratov Yu., Kulsartov T., Baklanova Yu., Gordienko Yu., Sapatayev Ye., Bochkov V. Investigation of the IGR research reactor's uranium-graphite fuel's high-temperature corrosion by a combination of

#	Last name, first name, patronymic (if applicable), education, academic degree, academic rank	H-index, ResearcherID, ORCID, Scopus Author ID (if available)	Links to profiles in Scopus, Web of Science, ORCID	Publication list (with links) and patents
				thermal analysis and mass-spectrometry methods. *Journal of Nuclear Materials*. 2025, 614, 155908. https://doi.org/10.1016/j.jnucmat.2025.155908 4. Baklanova Yu., Sapatayev Ye., **Samarkhanov K.**, High-Temperature Corrosion Behavior of 12Cr18Ni10Ti Grade Austenitic Stainless Steel Under Chlorination Conditions. *Metals*. 2025. 15(9), 1052; https://doi.org/10.3390/met15091052 5. Kulsartov T., **Samarkhanov K.**, Bochkov V., Kenzhin Ye., Ponkratov Yu., Kenzhina I., Zaurbekova Zh., Sapatayev Ye., Yelishenkov A., Udartsev S. High-temperature corrosion testing of titanium beryllides in the presence of water vapor and oxygen. *Journal of Nuclear Materials*. 2024, 600, 155294. https://doi.org/10.1016/j.jnucmat.2024.155294 6. Batyrbekov E., Khasenov M., Gordienko Y., Kenzhina I., Kotlyar A., Miller A., Tskhe V., Bochkov V. Experimental Facility to Study the Threshold Characteristics of Laser Action at the p-s-Transition of Noble Gas Atom upon Excitation by $^{6}Li(n,\alpha)^{3}H$ Nuclear Reaction Products. *Applied Sciences*. 2022. 12(24), 12889. https://doi.org/10.3390/app122412889 7. **Samarkhanov K.**, Batyrbekov E., Khasenov M., Gordienko Yu., Baklanova Yu., Kenzhina I., Tulubayev Ye., Karambayeva I. Optical Radiation from the Sputtered Species under Excitation of Ternary Mixtures of Noble Gases by the $^{6}Li(n,\alpha)^{3}H$ Nuclear Reaction Products. *Eurasian Chemico-Technological Journal*. 2021, 23(2), 95-102. https://doi.org/10.18321/ectj1079
24.	Bochkov Vadim Sergeevich, higher education	h-index: 8, Web of Science Researcher ID: GDT-2547-2022, Web of Science ResearcherID: CHB-9172-2022 Scopus Author ID: 57207959570	https://www.webofscience.com/wos/author/record/5589577 https://www.scopus.com/authid/detail.uri?authorId=57207959570	Author of over 30 scientific publications, 4 patents. **Key scientific efforts:** 1. **Bochkov V.**, Ponkratov Yu., Gordienko Yu., Tulenbergenov T., Sokolov I. Development of a methodology for conducting experiments with a sample of tin-lithium eutectic at a plasma-beam installation. *Materials Today: Proceedings*. 2023. Volume 81. Part 3. P. 1198-1203. https://doi.org/10.1016/j.matpr.2022.11.431 2. **Bochkov V**, Ponkratov Yu, Nikitenkov N, Baklanova Yu, Gordienko Yu, Tulubayev Ye, Samarkhanov K, Karambayeva I. Determination of thermophysical properties of prototypes of tin-lithium alloy by differential scanning calorimetry. 2022 . *Journal of Physics: Conference Series*, 2155, 012016. https://doi.org/10.1088/1742-6596/2155/1/012016 3. Samarkhanov K., Ponkratov Yu., Kulsartov T., Baklanova Yu., Gordienko Yu., Sapatayev Ye., **Bochkov V.** Investigation of the IGR research reactor's uranium-graphite fuel's high-temperature corrosion by a combination of thermal analysis and mass-spectrometry methods. *Journal of Nuclear Materials*. 2025, 614, 155908. https://doi.org/10.1016/j.jnucmat.2025.155908 4. Kulsartov T., Samarkhanov K., **Bochkov V.**, Kenzhin Ye., Ponkratov Yu., Kenzhina I., Zaurbekova Zh., Sapatayev Ye., Yelishenkov A., Udartsev S. High-temperature corrosion testing of titanium beryllides in the presence of water vapor and oxygen. *Journal of Nuclear Materials*. 2024, 600, 155294. https://doi.org/10.1016/j.jnucmat.2024.155294 5. Ponkratov Yu., Gordienko Yu., Baklanov V., Tulubayev Ye, Koyanbayev Ye., **Bochkov V.**, Saparbek E. Investigation of tritium and helium generation and release from tin-lithium alloy under neutron irradiation. Journal of Nuclear Materials. 2025, 615, 155995. https://doi.org/10.1016/j.jnucmat.2025.155995 6. Chikhray Ye, Askerbekov S., Kenzhina I., Gordienko Yu, **Bochkov V.**, Nesterov E., Varlamova N. International Journal of Hydrogen Energy, 2019, Volume 44, Issue 55, P. 29365-29370. https://doi.org/10.1016/j.ijhydene.2019.03.013

#	Last name, first name, patronymic (if applicable), education, academic degree, academic rank	H-index, ResearcherID, ORCID, Scopus Author ID (if available)	Links to profiles in Scopus, Web of Science, ORCID	Publication list (with links) and patents
25.	Prozorova Irina Valentinovna, higher education	h-index: 8 https://orcid.org/0000-0001-8701-9756 Scopus Author ID 57220986470	https://www.scopus.com/authid/detail.uri?authorId=9246198400 https://www.webofscience.com/wos/author/record/49234058 https://orcid.org/0000-0001-8701-9756	Author of over 40 scientific publications. **Key scientific efforts:** 1. **Prozorova I.V.**, Sabitova R.R., Ghal-Eh N., Bedenko S.V. Modeling an HPGe detector response to gamma rays using MCNP5 code // International Journal of Modern Physics https://doi.org/10.1142/S01291831195009921 2. **Prozorova I.V.**, Irkimbekov R.A., Popov Yu.A., Bedenko S.V., Prozorov A.A., Mukhamediyev A.K., Sabitova R.R. Methods to study power density distribution in the IVG.1M research reactor after conversion // Applied Radiation and Isotopes. – 2022. – No. 185. – 110259. https://doi.org/10.1016/j.apradiso.2022.110259. (Scopus "Radiation" 46 %, WoS "Nuclear Science and Technology" SCIE Q2) 3. Sabitova R.R., Popov Y.A., Irkimbekov R.A., Bedenko S.V., **Prozorova I.V.**, Svetachev S.N., Medetbekov B.S. Experimental studies of power distribution in LEU-fuel of the IVG.1M reactor // Applied Radiation and Isotopes. − 2023. − 13; 200:110942. doi: 10.1016/j.apradiso.2023.110942. (Scopus "Radiation" 46 %, WoS "Nuclear Science and Technology" SCIE Q2) 4. Sabitova R., Popov Y., Irkimbekov R., **Prozorova I.**, Derbyshev I., Nurzhanov E., Surayev A., Gnyrya V., Azimkhanov A. Results of Experiments under the Physical Start-Up Program of the IVG.1M Reactor // Energies. − 2023. − V. 16. − P. 62−63. https://doi.org/10.3390/en16176263 (Scopus "Engineering" 82 %, WoS "Energy & Fuels" SCIE Q3) 5. Svetachev S.N., Popov Yu.A., Sabitova R.R., Bedenko S.V., **Prozorova I.V.**, Medetbekov B.S. Experimental studies of fission product release from model fuel elements at the physical start-up of the IVG.1M research reactor // Applied Radiation and Isotopes. − 2023. − 111023. https://doi.org/10.1016/j.apradiso.2023.111023 (Scopus "Radiation" 46 %, WoS "Nuclear Science and Technology" SCIE Q2) 6. Sabitova R.R., **Prozorova I.V.**, Irkimbekov R.A., Popov Yu.A., Bedenko S.V., Prozorov A.A., Mukhamediyev A.K. Methods to study power density distribution in the IVG.1M research reactor after conversion. // Applied Radiation and Isotopes. – 2022. – No. 185. – 110259. 7. Batyrbekov E., Vityuk V., Baklanov V., Gnyrya V., Azimkhanov A., Sabitova R., **Prozorova I.**, Popov Y., Irkimbekov R., Martynenko Y. Power Start-Up of the IVG.1M Reactor with Low-Enriched Uranium Fuel: Main Results // Energies. – 2025. – Vol. 18, 3187. https://doi.org/10.3390/en18123187
26.	Sabitova Radmila Radikovna, Master's degree	h-index: 4, Scopus Author ID 57211189530	https://www.scopus.com/authid/detail.uri?authorId=57211189530	Author of over 20 scientific publications. **Key scientific efforts:** 1. **Sabitova R.R.**, Prozorova I.V., Irkimbekov R.A., Popov Yu.A., Bedenko S.V., Prozorov A.A., Mukhamediyev A.K. Methods to study power density distribution in the IVG.1M research reactor after conversion // Applied Radiation and Isotopes. – 2022. – № 185. – 110259 https://doi.org/10.1016/j.apradiso.2022.110259 2. **Sabitova R.R.**, Popov Yu.A., Irkimbekov R.A., Bedenko S.V., Prozorova I.V., Svetachev S.N., Medetbekov B.S. Experimental studies of power distribution in LEU-fuel of the IVG.1M reactor // Applied Radiation and Isotopes. – Vol.200, 2023. – 110942. ISSN 0969-8043 https://doi.org/10.1016/j.apradiso.2023.110942 3. Sabitova R., Popov Yu., Irkimbekov R., Prozorova I., Derbyshev I., Nurzhanov E., Surayev A., Gnyrya V., Azimkhanov A. Results of Experiments under the Physical Start-Up Program of the IVG.1M Reactor. Energies 2023, 16, 6263. https://doi.org/10.3390/en16176263 4. Svetachev S.N., Popov Yu.A., **Sabitova R.R.**, Bedenko S.V., Prozorova I.V., Medetbekov B.S. Experimental studies of fission product release from model fuel elements at the physical start-up of the IVG.1M research reactor // Applied Radiation and Isotopes. Available online 6 September 2023, 111023 https://doi.org/10.1016/j.apradiso.2023.111023

#	Last name, first name, patronymic (if applicable), education, academic degree, academic rank	H-index, ResearcherID, ORCID, Scopus Author ID (if available)	Links to profiles in Scopus, Web of Science, ORCID	Publication list (with links) and patents
				5. Sabitova R.R., Popov Y.A., Irkimbekov R.A., Prozorova I.V., Bedenko S.V. Calculated and Experimental Data on the Power Density Profile in TVS of the IVG.1M Reactor after Fuel Enrichment Reduction. NNC RK Bulletin, 2023, Issue 1, pp. 83–87. https://doi.org/10.52676/1729-7885-2023-1-83-87
27.	Vityuk Galina Anatoliyevna, PhD, Associate Professor (Docent)	h-index: 6, ResearcherID: GZK-9682-2022, ORCID ID: 0000-0003-3321-8682, Scopus Author ID: 56180224400	https://www.scopus.com/authid/detail.uri?authorId=56180224400 https://www.webofscience.com/wos/author/record/GZK-9682-2022 https://orcid.org/0000-0003-3321-8682	Author of over 80 scientific publications and 4 patents. **Key scientific efforts:** 1. **Vityuk G.**, Vurim A., Skakov M., Pakhnits A. Methods and results of determining the impurity gas amount in ceramic fuel // Annals of Nuclear Energy. – 2021. – Vol.150. – 107843, https://doi.org/10.1016/j.anucene.2020.107843 2. Batyrbekov E., Vityuk V., Vurim A., **Vityuk G.** Experimental opportunities and main results of the impulse graphite reactor use for research in safety area // Annals of Nuclear Energy. –2023. –Vol. 182. 109582. https://doi.org/10.1016/j.anucene.2022.109582 3. Irkimbekov R., Vurim A., **Vityuk G.**, Zhanbolatov O., Kozhabayev Z., Surayev A. Modeling of Dynamic Operation Modes of IVG.1M Reactor // Energies. – 2023. – Vol 16 (2). art. no. 932. https://doi.org/10.3390/en16020932 4. Irkimbekov R.A., Surayev A.S., **Vityuk G.A.**, Zhanbolatov O.M., Kozhabaev Z.B., Bedenko S.V., Ghal-Eh N., Vurim A.D. Study on an open fuel cycle of IVG.1M research reactor operating with LEU-fuel // Nuclear Engineering and Technology. –2023. –Vol. 55, Issue 4. –pp. 1439-1447. https://doi.org/10.1016/j.net.2022.12.012 5. Vityuk V., **Vityuk G.**, Vurim A., Irkimbekov R., Kukushkin I., Surayev A., Mukhamedov N. Testing of a heterogeneous fuel rod in the research Impulse graphite reactor // Progress in Nuclear Energy. –2023. – Volume 164, 104889. https://doi.org/10.1016/j.pnucene.2023.104889 6. Kelsingazina R., Vityuk V., Vurim A., **Vityuk G**., Mukhamedov N., Tikhomirov G. Computational approaches for determining the nuclear heating value of structural materials during the irradiation at the IGR reactor // Annals of Nuclear Energy. –2024. –Vol.204, art. no. 110532. https://doi.org/10.1016/j.anucene.2024.110532 7. Mukhamedov N., Kukushkin I., Vityuk V., **Vityuk G.**, Dolzhikov S., Sapatayev Ye. Properties and characteristics of corium prototype of a fast power reactor // Annals of Nuclear Energy. –2025. –Volume 214, 111200. https://doi.org/10.1016/j.anucene.2025.111200 8. Mukhamedov N., Toleubekov K., **Vityuk G**., Bekmuldin M., Dolzhikov S. Decommissioning of the BN-350 Fast Neutron Reactor: History Review and Current Status // Energies. –2025. –Vol.18(13), Article 3486. https://doi.org/10.3390/en18133486 9. Irkimbekov R.A., Vityuk V.A., **Vityuk G.A**., Zhanbolatov O.M., Surayev A.S., Popov Yu.A., Kotlyar A.N. Development of a new computational support tool for experiments in the impulse graphite reactor // Nuclear Engineering and Design. –2025. –Volume 443, Article 114278. https://doi.org/10.1016/j.nucengdes.2025.114278 10. **Vityuk G**., Vityuk V., Kelsingazina R., Mukhamedov N., Irkimbekov R. Establishing a relation between the energy parameters of the research impulse graphite reactor and the tested fuel assembly with a block structure // Progress in Nuclear Energy. –2026. – Volume 191, art. no. 106052. https://doi.org/10.1016/j.pnucene.2025.106052 Patents: 1. Invention Patent No. 32510. Loop Channel Reactor Capsule Lid; published 30.11.2017; Bulletin No. 22 https://gosreestr.kazpatent.kz/Invention/Details?docNumber=262996 2. Invention Patent No. 34838. Device for Testing Fuel Rods in the Experimental Channel of a Research Reactor; published 4.06.2021; Bulletin No. 22, https://gosreestr.kazpatent.kz/Invention/Details?docNumber=321636

#	Last name, first name, patronymic (if applicable), education, academic degree, academic rank	H-index, ResearcherID, ORCID, Scopus Author ID (if available)	Links to profiles in Scopus, Web of Science, ORCID	Publication list (with links) and patents
				3. Invention Patent No. 36948. Experimental Device for Measuring the Temperature of Radiation-Induced Heating of Structural Materials in Nuclear and Thermonuclear Technology; published 27.09.2024; Bulletin No. 39, https://gosreestr.kazpatent.kz/Invention/Details?docNumber=380147 4. Invention Patent No. 11611. Protective Damping Casing for Transporting and Storing Capsule Irradiation Devices; published 26 December 2025; Bulletin No. 52, https://gosreestr.kazpatent.kz/Utilitymodel/Details?docNumber=435594
28.	Larionova Natalya Vladimirovna, PhD, Associate Professor	h-index: 12 Researcher ID - AAQ-7903-2020, ORCID - 0000-0002-4690-4414, Scopus Author ID – 55236881800	https://www.webofscience.com/wos/author/record/2020920 https://orcid.org/0000-0002-4690-4414 https://www.scopus.com/authid/detail.uri?authorId=55236881800	Author of over 200 scientific publications, 1 monograph, 1 patent. **Key scientific efforts:** *Monograph:* 1. **Larionova N.V.** Accumulation of Artificial Radionuclides by Plants at the Semipalatinsk Test Site / N.V. Larionova. – Astana: BG-PRINT Publishing, 2025. – 140 pp. – Bibliography: pp. 126–136. – 200 copies. – ISBN 978-601-7136-42-0. *Author's Certificate:* 1. Author's Certificate No. 55604, 11 March 2025, on Maps Related to Geography, Topography, and Other Sciences: "Distribution of Organically Bound Tritium in Vegetation at the 'Sary-Uzen' Site of the Semipalatinsk Test Site" / **Larionova N.V.**, Krivitsky P.E., Monaenko V.N. // Certificate of Registration in the State Register of Rights to Objects Protected by Copyright, registered by RSE "National Institute of Intellectual Property" of the Ministry of Justice of the Republic of Kazakhstan, 11 March 2025, No. 55604 / Signed electronically by the Director of RSE NIIS MJ RK S. Akhmetov. 2. Author's Certificate No. 46895, 3 June 2024, on Database: "Database of Scientific Research Results Conducted on the Territory of the Semipalatinsk Test Site" / Bachurina I.A., **Larionova N.V.**, Toporova A.V. // Certificate of Registration in the State Register of Rights to Objects Protected by Copyright, registered by RSE "National Institute of Intellectual Property" of the Ministry of Justice of the Republic of Kazakhstan, 3 June 2024, No. 46895 / Signed electronically by the Director of RSE NIIS MJ RK E. Ospanov *Articles:* 1. Aidarkhanova A., Mamyrbayeva A., Nadeyeva A., Iskenov A., Aidarkhanov A., **Larionova N.** [et al.] Determining Water Resource Formation at the "Delegen" Nuclear Test Site Using Stable Isotope Analysis // Water. – 2026.– Vol. 18, 99. – 19 p. – URL: https://doi.org/10.3390/w18010099. 2. Krivitskiy P., **Larionova N.**, Toporova A. [et al.] Accumulation of artificial radionuclides in vegetation cover in the area of underground nuclear tests locations in the Sary-Uzen site of the Semipalatinsk Test Site // Journal of Hazardous Materials. – 2026.– Vol. 502, 141010. – 10 p. – URL: https://doi.org/10.1016/j.jhazmat.2025.141010. 3. **Larionova N.**, Timonova L., Toporova A. [et al.] Tritium in vegetation at various types of radioactive contamination sites under arid climate conditions // PLoS One. – 2026.– Vol. 21. – 13 p. – URL: https://doi.org/10.1371/journal.pone.0339645. 4. Kabdyrakova A.M., Kunduzbayeva A.Ye., Mendubayev A.T., Batyrbekov E.G., Lukashenko S.N., Vityuk V.A., **Larionova N.V.**, Kabdrahmanova S.K. Mechanisms of the formation of radioactive soil contamination in the waterstream zone from the tunnel in the area of underground nuclear tests at the Degelen site, Semipalatinsk test site // Science of the Total Environment. – 2025.– Vol. 1000, 180443. – 15 p. – URL: https://doi.org/10.1016/j.scitotenv.2025.180443. 5. Baklanova Yu. V., Kabdyrakova A.M., Aidarkhanov A.O., Krivitskiy P. Ye., Kunduzbayeva A. Ye., Abisheva M.T., Salmenbayev S.Ye., **Larionova N.V.**, Gusyev M. Comparison of $^{90}Sr/^{137}Cs$ activity ratios in the soil of

#	Last name, first name, patronymic (if applicable), education, academic degree, academic rank	H-index, ResearcherID, ORCID, Scopus Author ID (if available)	Links to profiles in Scopus, Web of Science, ORCID	Publication list (with links) and patents
				fallout plumes from aboveground nuclear and thermonuclear tests at the Semipalatinsk Test Site // Journal of Environmental Radioactivity. – 2025. – Vol. 287, 107726. – 12 p. – https://doi.org/10.1016/j.jenvrad.2025.107726. 6. Subbotin S., Krivitskiy P., **Larionova N.** [et al.] Assessment of the radiological situation near a mothballed uranium mining facility in North-East Kazakhstan // Scientific Reports. – 2025.– Vol. 15, 16426. – 14 p. – https://doi.org/10.1038/s41598-025-01697-6 7. **Larionova N.**, Timonova L., Toporova A. [et al.] Tritium distribution in environmental compartments of the impact zone of radioactively contaminated areas // Ecological Indicators. – 2025.– Vol. 175, 113567. – 10 p. – https://doi.org/10.1016/j.ecolind.2025.113567 8. Dyussembayeva M., Aidarkhanova A., Tashekova A., Shakenov Ye., Kolbin V., Merkel A., Zhamaldinov F., **Larionova N.** [et.al.] Assessment of contamination of natural waters with radionuclides and heavy metals the case of Karabulak creek at the Semipalatinsk Test Site // PLoS ONE. – 2025.– Vol. 20 (2). – 17 p. – https://doi.org/10.1371/journal.pone.0310833. 9. **Larionova N.V**., Krivitskiy P. Ye., Aidarkhanova A.K. and [et al.] Tritium content in vegetation cover at nuclear test locations at the “Sary-Uzen” site in the Semipalatinsk Test Site // Ecotoxicology and Environmental Safety. – 2024. – Vol.288, 117387. – 10 p. – https://doi.org/10.1016/j.ecoenv.2024.117387. 10. Yankauskas A., **Larionova N**., Shatrov A., Toporova A. The Effect of Radionuclide and Chemical Contamination on Morphological and Anatomical Parameters of Plants // Plants. – 2024. – Vol.13 (20), 2860. – 18 p. – https:// doi.org/10.3390/plants13202860. 11. Panitskiy A., Bazarbaeva A., Baigazy S., Alexandrovich I., **Larionova N.** Radioecological characteristics of Siberian roedeer (*Capreolus pygargus Pal.*, 1771) inhabiting locations of nuclear weapon tests // PLoS ONE. – 2024. – № 19(9). – 12 p. –https://doi.org/10.1371/journal.pone.0308518. 12. Aidarkhanova A., **Larionova N.**, Tashekova A. [et al.] Assessment of the radionuclide and chemical composition of the Irtysh River water at the Republic of Kazakhstan territory // RSC Advances. – 2024. – № 14 (36). – 11 p. – DOI: 10.1039/d4ra02557a. 13. Monayenko V., Krivitskiy P., Abisheva M., Lukashenko S., **Larionova N.** Determination of the geographical coordinates of the aboveground nuclear tests epicenter // PLoS ONE. – 2024. – № 19(8). – 10 p. – https://doi.org/10.1371/journal.pone.0308920 14. **Larionova N.**, Toporova A., Krivitskiy P. [et al.] Artificial radionuclides in the plant cover around nuclear fuel cycle facilities // PLoS ONE. – 2024. – № 19(7). – 11 p. – https://doi.org/10.1371/journal.pone.0306531. 15. Timonova L., **Larionova N.**, Aidarkhanova A. [et al.] Tritium distribution in the «water-soil-air» system in the Semipalatinsk Test Site // PLoS ONE. – 2024. – № 19(4). – 19 p. – https://doi.org/10.1371/journal.pone.0297017. 16. Aktayev M., Subbotin S., Aidarkhanov A., Aidarkhanova A., Timonova L., **Larionova N.** Characterization of geological and lithological features in the area proximal to tritium-contaminated groundwater at the Semipalatinsk test site // PLoS ONE. – 2024. – 14 p. – https://doi.org/10.1371/journal.pone.0300971. 17. Kozhakhanov T.E., **Larionova N.V.**, Lukashenko S.N. [et al.] Peculiarities in accummulation of radionuclides by fruit and berry trees and shrubs // Journal of Environmental Radioactivity. – 2023. – Vol. 271. – 10 p. – https://doi.org/10.1016/j.jenvrad.2023.10731. 18. Panitskiy A.V., Syssoeva Y., Baygazy S., Kunduzbayeva A., Kenzhina L., Polivkina Y., **Larionova N.** Vertical distribution of radionuclides in soil at the Semipalatinsk Test Site beyond its test locations // PLoS ONE. – 2023. – N.18. – Issue 1. – 12 p. – https://doi.org/10.1371/journal.pone.0278581.

#	Last name, first name, patronymic (if applicable), education, academic degree, academic rank	H-index, ResearcherID, ORCID, Scopus Author ID (if available)	Links to profiles in Scopus, Web of Science, ORCID	Publication list (with links) and patents
29.	Panitsky Andrey Vasilievich, PhD, Associate Professor	h-index: 8 Author ID in Scopus 57192234252 Researcher ID Web of Science A-5389-2019 ORCID ID 0000-0002-3003-8806	https://www.scopus.com/authid/detail.uri?authorId=57192234252 https://www.webofscience.com/wos/author/record/A-5389-2019 https://orcid.org/0000-0002-3003-8806	Author of over 150 scientific publications. **Key scientific efforts:** *Monograph:* 1. **Panitsky A.V.** Assessment of the Feasibility of Agricultural Production in Areas Affected by Radioactively Contaminated Watercourses / A.V. Panitsky; Institute of Radiation Safety and Ecology, RSE NNC RK. – Astana: BG-Print, 2024. – 128 pp. – Bibliography: pp. 121–127. – 100 copies. – ISBN 978-601-08-3227-5. *Articles:* 1. **Panitskiy A.V.**, Baigazinov Zh., Baigazy S. [et al.] Assessment of ^{137}Cs, ^{90}Sr, ^{241}Am, $^{239+240}$Pu, ^{3}H (HTO, OBT) in the fish from lakes, rivers, and nuclear shell craters of the Semipalatinsk Test Site // Scientific Reports. – 2026.– Vol. 16, 1802. – 9 p. – URL: https://doi.org/10.1038/s41598-025-31374-7. 2. Minkenova K., Serik A., **Panitskiy A.** Cytogenetic changes in *Rosa spinosissima* L. and *Leymus angustus* (Trin.) Pilg., growing under radioactive contamination conditions at the Semipalatinsk nuclear test site // Plose One. – 2025. – Vol. 20(5), e0324860. – 15 p URL: https://doi.org/10.1371/journal.pone.0324860. 3. Polivkina Ye., Timonova L., Romanenko Ye., Lukashenko S., **Panitskiy A.** Assessment of bioavailability of tightly bound tritium in soil of the Semipalatinsk test site // Ecotoxicology and Environmental Safety. – 2025.– Vol. 303, 118977. – 9 p. – URL: https://doi.org/10.1016/j.ecoenv.2025.118977. 4. **Panitskiy A.**, Bazarbaeva A., Baigazy S. [et al.] Radioecological characteristics of Siberian roedeer (*Capreolus pygargus Pal*., 1771) inhabiting locations of nuclear weapon tests // PLoS ONE. – 2024. – № 19(9). – 12 p. – URL: https://doi.org/10.1371/journal.pone.0308518. 5. Polivkina Ye., Syssoyeva Ye., Ivanova A., **Panitskiy A.** [et al.] Tritium uptake in crops in the area with a high level of atmospheric tritium oxide in the territory of the former Semipalatinsk test site // PLoS ONE. – 2024. – № 19 (10). – 19 p. – URL: https://doi.org/10.1371/journal.pone.0308959. 6. **Panitskiy A.V.**, Syssoeva Y., Baygazy S. [et al.] Vertical distribution of radionuclides in soil at the Semipalatinsk Test Site beyond its test locations // PLoS ONE. –2023. – N.18. – Issue 1. – 12 p. – URL: https://doi.org/10.1371/journal.pone.0278581. 7. **Panitskiy A.**, Bazarbaeva A., Baigazy S. [et al.] Bioaccumulation of radionuclides in hoofed animals inhabiting the Semipalatinsk Test Site // PLoS ONE. – 2023. – 16 p. – URL: https://doi.org/10.1371/journal.pone.0294632.