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.	Sapataev Yerzhan Yernatuly, PhD, Associate Professor	h-index: 6, Web of Science ResearcherID: AAB-5761-2020, https://orcid.org/0000-0003-1252-0612, Scopus Author ID: 57226365313	https://www.scopus.com/authid/detail.uri?authorId=57226365313 https://www.webofscience.com/wos/author/record/1927193 https://orcid.org/0000-0003-1252-0612	Author of more than 50 scientific publications and 6 inventions. **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. Vol.25, Part 1, 2020. – P.17-23. DOI: https://doi.org/10.1016/j.matpr.2019.10.148 2. Samarkhanov K., Khasenov M., Batyrbekov E., Kenzhina I., **Sapatayev Ye.**, Bochkov V. Emission of Noble Gases Binary Mixtures under Excitation by the Products of the 6Li(n,α)3H Nuclear Reaction // Science and Technology of Nuclear Installations. – 2020. – Vol.2020. – Article ID 8891891. https://doi.org/10.1155/2020/8891891 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. – 108594. https://doi.org/10.1016/j.anucene.2021.108594 4. 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. https://doi.org/10.1080/15361055.2020.184388 5. 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 6. 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 7. 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. – Vol.81, Part 3, 2023. – P.1182-1185. DOI 10.1016/j.matpr.2022.10.309 Patents: 1. Patent of the Republic of Kazakhstan No. 32350. Clamp for fixing micro-specimens during tensile testing / Baklanov V.V., Koyanbaev Ye.T., Skakov M.K., Batyrbekov E.G., **Sapataev Ye.Ye**., Kurbanbekov Sh.R., Dauletkeldiyev A.D.; applicant and patent holder RSE NNC RK – No. 2016/0205.1; filed 26.02.2016; published 31.08.2017; Bulletin No. 16. 2. Patent of the Republic of Kazakhstan No. 32057. Method for producing siliconized graphite / Skakov M.K., Deryavko I.I., Baklanov V.V., Kurbanbekov Sh.R., Koyanbaev Ye.T., Miniyazov A.Zh., Kukushkin I.M., **Sapataev Ye.Ye.**, Mukhamedova N.M.; applicant and patent holder RSE NNC RK – No. 2015/0993.1; filed 01.09.2015; published 15.05.2017; Bulletin No. 9.

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2.	Korovikov Alexander Genadyevich, PhD	h-index: 4, Web of Science ResearcherID: IFP-5215-2023, Scopus Author ID: 57193884887	https://www.scopus.com/authid/detail.uri?authorId=57193884887	Author of more than 40 scientific publications. **Key scientific efforts:** 1. 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, 163(2021), 112167. 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. – Vol.194, September 2023, 113847. 3. Akbolatov E.Zh., **Korovikov A.G.**, Yermolaev A.A. Assessment of the installation quality of the coolant system of the IVG.1M reactor // Bulletin of NNC RK. – 2019. – Issue 4 (80). – Pp. 108-112. (IF = 0.164, KazBCI) Patents: 1. 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 installation / **Korovikov A.G.**, Yakovlev V.V., Izbaskhanova A.T.; applicant and patent holder RSE NNC RK – No. 2022/0731.2; filed 26.08.2022; published 02.12.2022; Bulletin No. 48.
3.	Akaev Asan Sabirovich, higher education	h-index: 5, Web of Science ResearcherID: GXT-1991-2022, https://orcid.org/0000-0003-4792-6161, Scopus Author ID: 57311044500 Scopus Author ID: 57321455500	https://www.scopus.com/authid/detail.uri?authorId=57321455500 https://www.webofscience.com/wos/author/record/34772200 https://orcid.org/0000003-4792-6161	Author of more than 50 scientific publications. **Key scientific efforts:** 1. Skakov M.K., Toleubekov K.O., Baklanov V.V., Gradoboev A.V., **Akaev A.S.**, Bekmuldin M.K. The method of corium cooling in a core catcher of a light-water nuclear reactor // Eurasian Physical Technical Journal. – 2022. – Vol.19. – No.3 (41). – P.69-77. https://doi.org/10.31489/2022No3/69-77 2. 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, 12, 9705. https://doi.org/10.3390/app12199705 3. 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. – February 2023 Article number 2480. DOI https://doi.org/10.3390/app13042480 Patents: 1. Patent of the Republic of Kazakhstan for a utility model No. 7799. Device for receiving the melt of a corium prototype of a nuclear reactor / 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. 2. Patent of the Republic of Kazakhstan for a utility model No. 7845. Method for increasing the efficiency of the heat-resistant material of the melt trap in the core of a light-water nuclear reactor / Skakov M.K., Baklanov V.V., **Akaev A.S.**, Mikisha A.V., Bekmuldin M.K.; applicant and patent holder RSE NNC RK – No. 2023/0063.2; filed 08.10.2021; published 24.02.2023; Bulletin No. 8.

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4.	Pospelov Vitaliy Alekseevich, higher education	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 installation // Bulletin of Kazakh National Academy of Natural Sciences (KazNANS). – 2017. – No. 3. – Pp. 61-63. 2. **Pospelov V.A.**, Baklanov V.V., Korovikov P.G. Comparative analysis of reactor technologies // Bulletin NNC RK. – 2019. – No. 4. – Pp. 73-78. 3. **Pospelov V.A.**, Korovikov A.G., Davydenko D.I., Kharchenko D.A. Source of reliable generation // Human. Energy. Atom. – 2021. – No. 2 (36). – Pp. 82-89. 4. Davydenko D.I., Korovikov A.G., Korovikov P.G., **Pospelov V.A.** Issues of certification of Kazakhstan-produced transport packaging sets and ways to resolve them // Proceedings of the International Educational Online Conference "Education – the Basis of Euro-Asian 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 complex for testing transport packaging sets // Bulletin NNC RK. – 2020. – No. 4. – Pp. 53-60. 6. Seisenbayeva M.K., **Pospelov V.A**., Abulgazinova D.I., Baklanova Y.Y. Analysis of radioactive waste and spent nuclear fuel management technologies in the context of nuclear energy development // Bulletin NNC RK. – 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 // Bulletin NNC RK. – 2025. – Issue 3. – Pp. 129-135. 8. Baklanov V.V., **Pospelov V.A**., Sysaletin A.V., Baklanova Y.Y. On some practical aspects of radioactive waste management in small modular reactors participating in the "FIRST" program // Bulletin NNC RK. – 2025. – Issue 4. – Pp.166-177.
5.	Izbaskhanova Aliya Tursunovna, higher education	h-index: 0	-	Patents: 1. 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 installation / Korovikov A.G., Yakovlev V.V., **Izbaskhanova A.T**.; applicant and patent holder RSE NNC RK – No. 2022/0731.2; filed 26.08.2022; published 02.12.2022; Bulletin No. 48.
6.	Prozorova Irina Valentinovna, higher education	h-index: 4, https://orcid.org/0000-0001-8701-9756 Scopus Author ID 57220986470	https://www.scopus.com/authid/detail.uri?authorId=57220986470 https://www.webofscience.com/wos/author/record/49234058 https://orcid.org/0000-0001-8701-9756	Author of more than 50 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. – 2019. – Vol.30, No.11. DOI: https://doi.org/10.1142/S0129183119500992 (IF = 1,017, DB WoS) 2. Baklanova Yu.Yu., Vurim A.D., Kotov V.M., Surayev A.S., **Prozorova I.V.** Work safety during purification of irradiated beryllium by chlorination // Journal of Physics: Conference Series 1443 (2020) 012018. – P.10. http://dx.doi.org/10.1088/1742-6596/1443/1/012018 3. **Prozorova I.V.**, Ghal-Eh N., Bedenko S.V., Popov Yu.A., Prozorov A.A., Vega-Carrillo H.R. Characterizing the coaxial HPGe detector using Monte Carlo simulations and evolutionary algorithms // Applied Radiation and Isotopes. – Vol.174. – 2021, 109748. ISSN 0969-8043 https://doi.org/10.1016/j.apradiso.2021.109748 4. 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 5. 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

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				6. 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 7. 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
7.	Gnyrya Vyacheslav Sergeyevich, PhD in Technical Sciences	h-index: 10, ResearcherID Web of Science: CSS-2015-2022; https://orcid.org/0000-0002-0083-1686; Scopus Author ID: 56270548000	https://www.scopus.com/authid/detail.uri?authorId=56270548000 https://orcid.org/0000-0002-0083-1686 https://www.webofscience.com/wos/author/record/8412421	Author of more than 40 scientific publications. **Key scientific efforts:** 1. Kulsartov T.V., Zaurbekova Zh.A., Ponkratov Yu.V., **Gnyrya V.S.** In-situ determination of parameters of hydrogen isotopes interaction with materials using dynamic sorption method // Fusion Science and Technology. – 2020. – Vol.76, Issue 3. – P.333-340. https://doi.org/10.1080/15361055.2020.1712006 2. Kashaykin P.F., Tomashuk A.L., Vasiliev S.A., Britskiy V.A., Ignatyev A.D., Ponkratov Y.V., Kulsartov T.V., Samarkhanov K.K., **Gnyrya V.S.**, Zarenbin A.V., Semjonov S.L. Radiation Resistance of Single-Mode Optical Fibers at λ = 1.55 μm under Irradiation at IVG.1M Nuclear Reactor // IEEE Transactions on Nuclear Science. – 2020. – Vol.67, Issue 10. – #9177171. – P.2162-2171. https://doi.org/10.1109/TNS.2020.3019404 3. **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). 4. **Gnyrya V.S.**, Tyurin Yu.I., Kashaykin P.F., Kulsartov T.V., Kenzhina I.E., Zaurbekova Zh.A., Samarkhanov K.K., Gordienko Yu.N., Ponkratov Yu.V., Askerbekov S.K., Tolenova A.U., Shaimerdenov A.A. A technique for conducting of reactor in-situ tests of optical fibres and FBG-sensors intended for in-vessel applications in thermonuclear facilities // Fusion Engineering and Design 191 (2023) 113787. https://doi.org/10.1016/j.fusengdes.2023.113787 5. 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 Patents: 1. Patent of the Republic of Kazakhstan for a utility model No. 4912. Pulse device for studying tritium-generating materials / Ponkratov Y.V., Skakov M.K., Barsukov N.I., Gordienko Y.N., Zaurbekova Zh.A., Karambaeva I.S., **Gnyrya V.S.**; applicant and patent holder RSE NNC RK – No. 2020/0180.2; filed 27.06.2018; published 06.05.2020; Bulletin No. 18.
8.	Koyanbaev Yerbolat Taitoletovich, PhD	h-index: 6, Web of Science ResearcherID: FEV-6850-2022, 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/0000-0002-4675-1067	Author of more than 60 scientific publications and 5 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 Long-Term 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)

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				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: ttps://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.17-23.
				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., **Koyanbaev Ye.T**., Zhilkashinova A.M., Kabdrakhmanova S.K., Akatan K., Shaymardan E., Kantay N., Pavlov A.V., Miniyazov A.Zh., Sokolov I.A., Tulengbergenov T.R., Kozhakhmetov Ye.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., **Koyanbaev Ye.T**., Zhilkashinova A.M., Kabdrakhmanova S.K., Akatan K., Shaymardan E., 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 an invention No. 36605. Device for producing hydrogen and solid carbon by methane plasma pyrolysis in a microwave discharge / Skakov M.K., Miniyazov A.Zh., Baklanov V.V., **Koyanbaev Ye.T**., Tulengbergenov T.R., Sokolov I.A., Zhanbolatova G.K., Beysenov E.S.; applicant and patent holder RSE NNC RK – No. 2022/0518.1; filed 25.08.2022; published 16.02.2024; Bulletin No. 7.

9.	Yerygina Lyudmila Alexandrovna, PhD	h-index: 2, Scopus Author ID 57194057481	https://www.webofscience.com/wos/author/record/975308	Author of more than 50 publications and 4 inventions. **Key scientific efforts:** 1. Modeling the formation of a vapor-gas envelope during the cathodic heating of structural steels // Bulletin of D. Serikbayev East Kazakhstan State Technical University – Computational Technologies. – 2013. – Issue 3. – Pp. 169-175. 2. Phase Composition and Microhardness of Surface Layers 34CrNi1Mo Steel after Electrolytic-Plasma Processing. – Applied Mechanics and Materials. – 2014. – Vol. 446-447. – P. 142-145. 3. Impact of Electrolytic-Plasma Nitriding on 34CrNi1Mo Steel Surface Layer Properties. – Applied Mechanics and Materials. – 2015. – Vol. 698.– P. 439-443. 4. Phase transformations in 0.34C–1Cr–1Ni–1Mo–Fe steel under the action of electrolytic plasma nitrocarburizing. – Bulletin of the Russian Academy of Sciences: Physics. – 2017.– T.81.– №3.– C.354-356. 5. Influence of electrolytic plasma nitriding mode on structural phase state of pearlitic steel. – MATEC Web of Conferences. – 2018. – Vol. 143.– # 03004 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. 33038. Method for producing ^{233}U in a thermal reactor / Kotov V.M., Chernova L.V., **Yerygina L.A**.; applicant and patent holder RSE NNC RK – No. 2016/1094.1; filed 28.11.2016; published 27.08.2018; Bulletin No. 32. 2. Patent of the Republic of Kazakhstan for an invention No. 32397. Method for surface hardening of structural steel parts / **Yerygina L.A**., Skakov M.K., Batyrbekov E.G., Kotov V.M.; applicant and patent holder RSE NNC RK – No. 2016/0264.1; filed 24.03.2016; published 29.09.2017; Bulletin No. 18. 3. Patent of the Republic of Kazakhstan for an invention No. 30575. TVEL with a composite metallic core / Kotov V.M., **Yerygina L.A**.; applicant and patent holder RSE NNC RK – No. 2014/0618.1; filed 04.05.2014; published 16.11.2015; Bulletin No. 11. 4. Patent of the Republic of Kazakhstan for an invention No. 29976. Method for strengthening the surface layer of structural steel parts / Skakov M.K., Kotov V.M., **Yerygina L.A**.; applicant and patent holder RSE NNC RK – No. 2014/0123.1; filed 04.02.2014; published 15.06.2015; Bulletin No. 6.
10.	Yakovlev Vitaliy Viktorovich, higher education	h-index: 1, Scopus Author ID: 57197688602	https://www.scopus.com/authid/detail.uri?authorId=57197688602	Patents: 1. 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 installation / Korovikov A.G., **Yakovlev V.V**., Izbaskhanova A.T.; applicant and patent holder RSE NNC RK – No. 2022/0731.2; filed 26.08.2022; published 02.12.2022; Bulletin No. 48.
11.	Vurim Aleksandr Davidovich, PhD in Physics and Mathematics	h-index: 10, https://orcid.org/0000-0002-0311-7357 Scopus Author ID 6507215285	https://www.scopus.com/authid/detail.uri?authorId=6507215285 https://www.webofscience.com/wos/author/record/16020328 https://orcid.org/0000-0002-0311-7357	Author of more than 130 scientific publications. **Key scientific efforts:** 1. Baklanova Yu.Yu., **Vurim A.D.**, Kotov V.M., Surayev A.S., Prozorova I.V. Work safety during purification of irradiated beryllium by chlorination // Journal of Physics: Conference Series 1443 (2020) 012018. – P.10. http://dx.doi.org/10.1088/1742-6596/1443/1/012018 2. 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 (Scopus: 66%, Q1, CiteScore – 3,5; WoS: 63.24%, Q2, IF 1.81) 3. Irkimbekov R.A., **Vurim A.D.**, Bedenko S.V., Surayev A.S., Vityuk G.A. Neutron background of composite low-enriched uranium fuel of the IVG.1M research reactor // Izvestiya Wysshikh Uchebnykh Zawedeniy, Yadernaya Energetik. – 2022. – Vol.1. – P.130-139. https://doi.org/10.26583/npe.2022.1.11 (Scopus – 11%, Q3, CiteScore – 0,5). 4. Vityuk G.A., Vityuk V.A., **Vurim A.D.**, Skakov M.K., Gradoboyev A.V. Feasibility study mixed oxide fuel tests in the impulse graphite reactor // Eurasian Journal of Physics and Functional Materials. – 2022. – Vol.6 (3). – P.198-212. https://doi.org/10.32523/ejpfm.2022060305 (Scopus – 5%, Q4, CiteScore – 0,5). 5. Irkimbekov R.A., **Vurim A.D.**, Bedenko S.V., Vlaskin G.N., Vityuk G.A., et al. Estimating the neutron component of radiation properties of the IVG.1M research reactor irradiated low-enriched fuel // Applied Radiation and Isotopes. – 2022. – Vol. 181. – 110094, ISSN 0969-8043. https://doi.org/10.1016/j.apradiso.2021.110094 (Scopus: 45%, Q3, CiteScore – 2,7; WoS: 50%, Q3, IF 1.787). 6. Zhanbolatov O.M., **Vurim A.D.**, Surayev A.S., Irkimbekov R.A. Development of scenarios for controlling the fuel campaign of the IVG.1M reactor with leu-fuel // Journal of Physics Conf. Series 2155 (2022) 012017 doi:10.1088/1742-6596/2155/1/012017 7. **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, 12, 9705. https://doi.org/10.3390/app12199705 8. 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 (Scopus: 66%, Q1, CiteScore – 3,5; WoS: 63.24%, Q2, IF 1.81).

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				9. 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 (Scopus: 65%, Q2, CiteScore – 5; WoS: 63.24%, Q3, IF 3.252) 10. 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. – P.1439-1447. https://doi.org/10.1016/j.net.2022.12.012 (Scopus: 72%, Q1, CiteScore – 3.7; WoS: 83.82%, Q1, IF 2.817) Patents: 1. Patent of the Republic of Kazakhstan for an invention No. 35307. Pulse irradiation device for studying the final stage of a severe reactor accident / **Vurim A.D**., Pakhnits A.V., Khametov S.Z., Bogomolova I.N., Mukhamedov N.Ye., Tskhe V.K., Dolzhikov S.A.; applicant and patent holder RSE NNC RK – No. 2020/0494.1; filed 27.04.2020; published 24.12.2021; Bulletin No. 51. 2. Patent of the Republic of Kazakhstan for an invention No. 34838. Device for testing fuel elements in the experimental channel of a research reactor / Skakov M.K., **Vurim A.D**., Vityuk G.A., Vityuk V.A., Pakhnits A.V., Bogomolova I.N.; applicant and patent holder RSE NNC RK – No. 2019/0873.1; filed 03.12.2019; published 04.06.2021; Bulletin No. 22. 3. Patent of the Republic of Kazakhstan for an invention No. 35120. Method for producing beryllium chloride / Kotov V.M., **Vurim A.D**.; applicant and patent holder RSE NNC RK – No. 2019/0840.1; filed 18.11.2019; published 11.06.2021; Bulletin No. 23. 4. Patent of the Republic of Kazakhstan for an invention No. 34494. Device for studying the destruction process of the lower support plate of the guide tube of the control rod in severe accident conditions of a nuclear power reactor / Skakov M.K., **Vurim A.D**., Mukhamedov N.Ye., Batyrbekov E.G., Pakhnits A.V., Tskhe V.K.; applicant and patent holder RSE NNC RK – No. 2019/0236.1; filed 05.04.2019; published 09.10.2020; Bulletin No. 40.
12.	Azimkhanov Almas Slambekovich, Master's degree	h-index: 6; https://orcid.org/0000-0001-6131-3658 Scopus Author ID: 57192914506	https://www.scopus.com/authid/detail.uri?authorId=57192914506 https://www.webofscience.com/wos/author/record/4816531 https://orcid.org/0000-0001-6131-3658	**Key scientific efforts:** 1. Irkimbekov R.A., **Azimkhanov A.S.**, Vityuk G.A., Surayev A.S. et al. Experimental data on the IVG.1M RCCS influence on the reactor downtime between start-ups // Eurasian Journal of Physics and Functional Materials. – 2022. – Vol. 6(3). – P.190-197. https://doi.org/10.32523/ejpfm.2022060304 (Scopus – 20%, Q4, CiteScore –0,5). 2. 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
13.	Seisenbayeva Marzhan Kasymkhanovna, Master's degree	h- index: 0	https://www.webofscience.com/wos/author/record/POS-9309-2026 https://orcid.org/0009-0009-3936-6396	1. **Seisenbayeva M.K.,** Pospelov V.A., Abulgazinova D.I., Baklanova Y.Y. Analysis of radioactive waste and spent nuclear fuel management technologies in the context of nuclear energy development // Bulletin NNC RK – 2025. – Issue 3. – Pp. 103-112.

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14.	Prozorov Andrey Alexandrovich, higher education	h-index: 2, Scopus Author ID 57223169438	https://www.scopus.com/authid/detail.uri?authorId=57223169438 https://www.webofscience.com/wos/author/record/13563841	**Key scientific efforts:** 1. Prozorova I.V., Ghal-Eh N., Bedenko S.V., Popov Yu.A., **Prozorov A.A.**, Vega-Carrillo H.R. Characterizing the coaxial HPGe detector using Monte Carlo simulations and evolutionary algorithms // Applied Radiation and Isotopes. – Vol.174. – 2021, 109748. ISSN 0969-8043 https://doi.org/10.1016/j.apradiso.2021.109748 2. 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 3. Popov Y.A., Prozorova I.V., **Prozorov A.A**., Sabitova R.R. Improved physical-mathematical model of a semiconductor gamma-radiation detector based on the method of statistical testing // Scientific Instrumentation. – 2019. – Vol. 29, No. 2. – Pp. 90-102. 4. Krivitsky P.E., Mustafina E.V., Prozorova I.V., **Prozorov A.A**., Chernov A.A. Assessment of the spent nuclear fuel condition of the BN-350 reactor in long-term storage mode // Bulletin NNC RK. – 2020. – Issue 2(82). – Pp. 167-170. 5. Mukhamediev A.K., Vurim A.D., Prozorova I.V., **Prozorov A.A**. Calculation results of the effective dose field of ionizing radiation in the central hall of the IGR reactor // Bulletin NNC RK. – 2023, Issue 3. – Pp. 174-181. https://doi.org/10.52676/1729-7885-2023-3-174-181
15.	Popov Yuriy Anatolyevich, higher education	h-index: 4, Web of Science ResearcherID: FRJ-0810-2022, Scopus Author ID: 57194237762	https://www.scopus.com/authid/detail.uri?authorId=57194237762 https://www.webofscience.com/wos/author/record/45148038	Author of more than 40 scientific publications. **Key scientific efforts:** 1. Prozorova I.V., Ghal-Eh N., Bedenko S.V., **Popov Yu.A.**, Prozorov A.A., Vega-Carrillo H.R. Characterizing the coaxial HPGe detector using Monte Carlo simulations and evolutionary algorithms // Applied Radiation and Isotopes. – Vol.174. – 2021, 109748. ISSN 0969-8043 https://doi.org/10.1016/j.apradiso.2021.109748 2. 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 3. 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 4. 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 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. Available online 6 September 2023, 111023 https://doi.org/10.1016/j.apradiso.2023.111023
16.	Mukhamediev Askhat Kspekovich, Bachelor of Natural Sciences	h-index: 1, Scopus Author ID 57654082900	https://www.scopus.com/authid/detail.uri?authorId=57654082900 https://www.webofscience.com/wos/author/record/32728668	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. Tskhe V.K., Kotlyar A.N., Miller A.A., Gaidachuk V.A., Kazhitayev S.M., Vurim A.D., Gnyrya V.S., Prozorova I.V., **Mukhamediev A.K**. Studies in support of the decommissioning project of the IGR reactor installation // Bulletin NNC RK. – 2022. – Issue 4 (92). – Pp. 56–62. https://doi.org/10.52676/1729-7885-2022-4-56-62 3. **Mukhamediev A.K.**, Vurim A.D., Prozorova I.V., Prozorov A.A. Calculation results of the effective dose field of ionizing radiation in the central hall of the IGR reactor // Bulletin NNC RK. – 2023. – Issue 3. – Pp. 174–181. https://doi.org/10.52676/1729-7885-2023-3-174-181

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17.	Svetachev Stanislav Nikolaevich, higher education	h-index: 2; https://orcid.org/0000-0003-4309-9912/	https://www.scopus.com/authid/detail.uri?authorId=58492249400 https://www.webofscience.com/wos/author/record/48108483	1. 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 2. **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
18.	Sabitova Radmila Radikovna, Master's degree	h-index: 4, Scopus Author ID 57211189530	https://www.scopus.com/authid/detail.uri?authorId=57211189530	Author of more than 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 5. **Sabitova R.R.**, Popov Y.A., Irkimbekov R.A., Prozorova I.V., Bedenko S.V. Calculated and experimental data on the power distribution profile in the fuel assembly of the IVG.1M reactor after fuel enrichment reduction // Bulletin NNC RK. – 2023. – Issue 1. – Pp. 83–87. https://doi.org/10.52676/1729-7885-2023-1-83-87
19.	Mukhamedzhanova Rimma Muratovna, higher education	h-index: 0	-	1. Dauletkhanov E.D., Sapataev Ye.Ye., Kozhakhmetov Ye.A., **Mukhamedzhanova R.M.**, Beldeubaev A.Zh., Urkunbay A.S. Influence of thermal cycling on the strength characteristics of LEU and HEU fuel of the IGR reactor // Bulletin NNC RK. – 2019. – Issue 3 (79). – Pp. 54–58. (IF = 0.164, KazBCI) https://doi.org/10.52676/1729-7885-2019-3-54-58 2. Kozhakhmetov Ye.A., Koyanbaev Ye.T., Dauletkhanov E.D., **Mukhamedzhanova R.M.**, Urkunbay A.S., Sapataev Ye.Ye. Condition of the material of spent fuel assembly cladding of the BN-350 reactor during long-term storage // Bulletin NNC RK. – 2019. – Issue 4 (80). – Pp. 113–118. (IF = 0.164, KazBCI)) https://doi.org/10.52676/1729-7885-2019-4-113-118 3. Kozhakhmetov Ye.A., Koyanbaev Ye.T., Dauletkhanov E.D., **Mukhamedzhanova R.M.**, Urkunbay R.M., Sapataev Ye.Ye. Assessment of the corrosion state of the material of spent fuel assembly cladding of the BN-350 reactor after short-term thermal exposure // Bulletin NNC RK. – 2020. – Issue 1. – Pp. 98–103.

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20.	Kruglykhin Aleksandr Alexandrovich, higher education	h-index: 1, ORCID ID 0000-0002-0266-202X Author ID в Scopus 58105193400	-	1. Turchenko D.V., Kabdyrakova A.M., **Kruglykhin A.A**. Study of natural and artificial radionuclide content in the air of the steppe zone of the Republic of Kazakhstan // Bulletin NNC RK, Issue 2, June 2020, Pp. 128–133. 2. Turchenko D.V., Lyakhova O.N., **Kruglykhin A.A**. Development of a radionuclide monitoring system for nuclear events and radiation accidents at the NNC RK // Bulletin NNC RK, Issue 2, June 2020, Pp. 134–143.
21.	Chernova Larisa Vladislavovna, higher education	h-index: 0	-	Patents: 1. Patent of the Republic of Kazakhstan No. 33038. Method for producing ^{233}U in a thermal reactor / Kotov V.M., **Chernova L.V.**, Yerygina L.A.; applicant and patent holder: RSE NNC RK – No. 2016/1094.1; filed: 28.11.2016; published: 27.08.2018; Bulletin No. 32.
22.	Yermolaev Aleksey Anatolyevich, higher education	h-index: 0	-	1. Akbolatov Ye.Zh., Korovikov A.G., **Yermolaev A.A.** Assessment of the quality of the coolant system installation of the IVG.1M reactor // Bulletin NNC RK. – 2019. – Issue 4 (80). – Pp. 108–112. (IF = 0.164, Kazakhstan Citation Base, KazBCI))
23.	Beisenov Yerzhan Serikuly, higher education	h-index: 0	-	Patents: 1. Patent of the Republic of Kazakhstan No. 36605. Device for producing hydrogen and solid carbon by plasma pyrolysis of methane in a microwave discharge / Skakov M.K., Miniyazov A.Zh., Baklanov V.V., Koyanbaev Ye.T., Tulengergenov T.R., Sokolov I.A., Zhanbolatova G.Q., **Beisenov Ye.S**.; applicant and patent holder: RSE NNC RK – No. 2022/0518.1; filed: 25.08.2022; published: 16.02.2024; Bulletin No. 7.
24.	Bogomolova Inga Nikolaevna, higher education	h-index: 0	-	Patents: 1. Patent of the Republic of Kazakhstan No. 35307. Ampoule irradiation device for studying the final stage of a severe reactor accident / Vurim A.D., Pakhnits A.V., Khametov S.Z., **Bogomolova I.N**., Mukhamedov N.Ye., Tskhe V.K., Dolzhikov S.A.; applicant and patent holder: RSE NNC RK – No. 2020/0494.1; filed: 27.04.2020; published: 24.12.2021; Bulletin No. 51. 2. Patent of the Republic of Kazakhstan No. 34838. Device for testing fuel rods in the experimental channel of a research reactor / Skakov M.K., Vurim A.D., Vityuk G.A., Vityuk V.A., Pakhnits A.V., **Bogomolova I.N**.; applicant and patent holder: RSE NNC RK – No. 2019/0873.1; filed: 03.12.2019; published: 04.06.2021; Bulletin No. 22.