

PATENTS AND COPYRIGHT CERTIFICATES OF 2025

№	Patent or Application Number	Date of Patent Grant or Application Filing	Patent or Application Title	Authors
Patents				
1	№10395	11.04.25	Method for Producing a Calcium Silicate Adsorbent Based on Rice Husk	N.O. Appazov, M. Tolegenkyzy, S.A. Kanzhar, A.B. Toybazarova, D.J. Niyazova, I.D. Espanova, R.A. Narmanova, B.G. Alimkhan, Z.J. Appazova, R.U. Japparbergenov, R.A. Turmanov, V.B. Azmakhanova, Sergiy Liubchik, Andriy Liubchik, Svitlana Liubchik, M.I. Syzdykbaev, N.I. Akylbekov, A.S. Serikkul, A.N. Appaz
2	№ 10494	02.05.2025	Method for Producing Granulated Activated Carbon Based on Rice Husk	S.A. Kanzhar, B.G. Alimkhan, M.S. Serikbaev, M.G. Bekhozhaev, I.D. Espanova, D.J. Niyazova, A.B. Toybazarova, Meruert Tolegenkyzy, Z.J. Appazova, R.A. Narmanova, Sergiy Liubchik, R.A. Turmanov, R.U. Japparbergenov, Sh.T. Zakirova, A.N. Appaz, M.I. Syzdykbaev, N.I. Akylbekov, N.O. Appazov
3	№10352	04.04.2025	Use of a Mixture of Maral Antler (Panty) and Camel Thorn Extracts as an Antioxidant	M. Tolegenkyzy, R. Turmanov, R.U. Japparbergenov, N.I. Akylbekov, E.E. Kainarbayev, M.I. Syzdykbaev, N.B. Edilbaev
4	№10495.	02.05.2025	Method for Obtaining 6-Chloro-4-(3-(morpholino-4-ium)propylamino)-5-nitrobenzo[c][1,2,5]oxadiazol-1-oxide Chloride with Growth-Promoting, Antibacterial, and Antifungal Activity	N.I. Akylbekov, R.U. Japparbergenov, R.A. Turmanov, N.O. Appazov, Zh.Sh. Zhumadilova, B.Ä. Bitikov, D.J. Niyazova, I.D. Espanova, A.A. Moldanazar, A.B. Toybazarova, N.A. Akhataev, G.K. Talkanbayeva, G.M. Abyzbekova, G.T. Balykbaeva, G.M. Mahanova, N.S. Suleimenov, B.B. Abzhalelov, M.I. Syzdykbaev, E.A. Nazarov

5	№10986	05.02.2025	Cooling and Snow Removal System for Optimizing the Performance of Solar Panels	I. Kultan, G.Қ. Sydykova, N.O. Appazov, I.A. Utemuratov, A.M. Aytugan, G.A. Zhakapbaeva, M.A. Buribaeva, S. Kanzhar, M.G. Bekhozhaev, et al.
6	10988	19.02.2025	Device for Grain Drying Using Solar Energy	I.B. Kultan, G.Қ. Sydykova, N.O. Appazov, I.A. Utemuratov, A.M. Aytugan, G.A. Zhakapbaeva, M.A. Buribaeva, S. Kanzhar, M.G. Bekhozhaev, et al.
7	10244	28.02.2025	Uranium Leaching Method.	N.O. Appazov, Zh.D. Markenbayev, Z.M. Tyulyubaev, N.N. Abdrakhmanov, M.S. Nauryzbayev, A.M. Arapov, E.K. Umraliev, Zh.S. Kenzhetaev, B.T. Altaybayev, M.M. Mataev, B.G. Alimkhan, S.A. Kanzhar
Copyright Certificates				
1	№ 58525	23.05.2025	Demonstration Experiments in Mechanics for 9th Grade / Textbook	A.A. Almagambetova, Ü.Ä. Abitaeva
2	№ 58432	22.05.2025	"Chemical Foundations of Human Health" Educational and Methodological Guide for Secondary School Teachers	Ü. Izatullakyzy, G.M. Abyzbekova
3	№ 56300	02.04.2025	Hydrogen Index (pH)	A.B. Aitbai, Ü. Izatullakyzy, Sh.O. Espenbetova
4	№ 56301	02.04.2025	Solutions. Problem Solving	Ü. Izatullakyzy, Sh.O. Espenbetova, A.B. Aitbai
5	№ 58816	28.05.2025	Fundamental Concepts of Thermochemistry	Sh.B. Bayangali, Sh.O. Espenbetova
6	№ 58820	28.05.2025	Fundamental Concepts of Electrochemistry	A.A. Dayyrbek, Sh.O. Espenbetova
7	№58785	27.05.2025	"Food Chemistry" Elective Course, Educational and Methodological Guide	E. Gabitkyzy, Sh.O. Espenbetova
8	№ 59107	03.06.2025	Organic Chemistry: Problem Set on Mixtures. Educational and Methodological Guide	G.A.Törebek, G.T.Saparova, Sh.O.Espenbetova
9	№ 57402	30.04.2025	ChemMap- Analytical Chemistry in a Conceptual Map	A.B.Aitbai, K.Sh.Arynova
10	№ 53200	06.01.2025	"Machine Learning Technology" – Electronic Textbook.	B. Nurmagambetova, M.Zh. Aitimov
11	№59702	12.06.2025	Theory of Solutions	A.Қ. Kartkozhaqova, Sh.O. Espenbetova, A.S. Tapalova