This collection of research projects is based on Sustainable Development Goal 12 — Responsible Consumption and Production. Most of the studies focus on obtaining new products through waste recycling, particularly the production of activated carbon from rice husks and straw, as well as the development of sorbents from agricultural waste. In addition, the research addresses efficient resource use through methods to improve wind turbine performance and the application of next-generation plant growth regulators.

Another important area of the work concerns sustainability in tourism and the preservation of cultural heritage. The studies aim to enhance the tourism potential of Astana and Almaty, build a strong “brand city” image, and promote ecological and cultural responsibility by exploring the harmony between humans and nature in nomadic culture. These comprehensive studies help reduce the environmental impact of production cycles and facilitate the transition of society toward a sustainable development model.

1

Title	A Comprehensive Review of New Generation Plant Growth Regulators
Authors	Zhumanova, N.| Akimbayeva, N.| Myrzakhmetova, N.| Dzhiembaev, B.| Kuandykova, A.| Diyarova, B.| Seilkhanov, O.| Kishibayev, K.| Meldeshov, A.| Saparbekova, I.| Yerezhepova, A.
Year	2024
Abstract in Scopus	https://www.scopus.com/record/display.url?eid=2-s2.0-85207789944&origin=resultslist
DOI	10.30919/esfaf1190

2

Title	Production of activated carbon granulated by treatment of rice husk and straw with an oil sludge using polyvinyl acetate as a binder
Authors	Diyarova, B.| Appazov, N.| Bazarbayev, B.| Dzhiembaev, B.| Lygina, O.| Tapalova, A.S.
Year	2023
Abstract in Scopus	https://www.scopus.com/record/display.url?eid=2-s2.0-85181310404&origin=resultslist
DOI	10.21608/EJCHEM.2023.210552.7969

3

Title	STUDY OF THE CURRENT STATE AND PROSPECTS FOR THE DEVELOPMENT OF TOURIST FLOW IN THE CITY OF ALMATY, KAZAKHSTAN
Authors	Zheldibayev, A.| Kulazhanov, Y.| Moldagaliyeva, A.| Abdildayeva, N.| Zhoya, K.| Sarkitkan, K.| Savanchiyeva, A.| Aldasheva, A.| Askarova, M.| Pavlichenko, L.
Year	2024
Abstract in Scopus	https://www.scopus.com/record/display.url?eid=2-s2.0-85213885987&origin=resultslist
DOI	10.30892/gtg.574spl09-1362

4

Title	LEVERAGING ASTANA'S TOURISM TO BUILD A "BRAND CITY" REPUTATION
Authors	Sadykova, D.| Mamirova, K.| Asenov, A.| Kenzhebaj, R.| Kubessova, G.
Year	2025
Abstract in Scopus	https://www.scopus.com/record/display.url?eid=2-s2.0-85211718538&origin=resultslist
DOI	10.35588/cb84nm08

5

Title	Kazakh superstitions between humans and nature as a system of compatibility in theology
Authors	Yerzhanov, Y.| Marzhan, A.| Aliya, O.| Samal, K.| Akbota, S.| Khairuldayeva, A.
Year	2024
Abstract in Scopus	https://www.scopus.com/record/display.url?eid=2-s2.0-85185181671&origin=resultslist
DOI	10.46222/pharosjot.10517

6

Title	A method for increasing the efficiency of a wind turbine
Authors	Yershina, A.K.| Sakipova, S.E.
Year	2020
Abstract in Scopus	https://www.scopus.com/record/display.url?eid=2-s2.0-85100186713&origin=resultslist
DOI	10.31489/2020NO2/73-77

7

Title	UNDERSTANDING THE CONTRIBUTION OF TURKIC PETROGLYPHS TO CULTURAL TOURISM DEVELOPMENT IN CENTRAL ASIA: A SYSTEMATIC AND META-ANALYTIC PERSPECTIVE
Authors	Issakov, Y.| Zhoya, K.| Nizamatdinova, Z.| Laiskhanov, S.| Aliaskarov, D.| Gajić, T.
Year	2025
Abstract in Scopus	https://www.scopus.com/record/display.url?eid=2-s2.0-105020033509&origin=resultslist
DOI	10.30892/gtg.62406-1572

8

Title	Opportunities for intensive growth of the well-being of students based on interviews in Western Kazakhstan
Authors	Knissarina, M.| Seitenova, S.| Tusseyev, M.| Ussenova, A.| Syzdykbayeva, A.| Khassenov, B.
Year	2025
Abstract in Scopus	https://www.scopus.com/record/display.url?eid=2-s2.0-85218962347&origin=resultslist
DOI	10.22521/edupij.2025.14.35

9

Title	Production of Granular Porous Carbon Sorbent by Thermolysis of Agricultural and Technogenic Waste Co-
Authors	Appazov, N.| Diyarova, B.| Tolegenkyzy, M.| Syzdykbayev, M.| Toibazarova, A.| Niyazova, D.| Yespanova, I.| Kanzhar, S.| Alimkhan, B.| Bekkhozhayev, M.| Serikbayev, M.| Turmanov, R.| Zhapparbergenov, R.| Narmanova, R.| Akhatayev, N.| Balykbayeva, G.| Yespenbetova, S.| Nazarov, E.| Askarova, G.| Akylbekov, N.
Year	2026
Abstract in Scopus	https://www.scopus.com/record/display.url?eid=2-s2.0-105015364718&origin=resultslist
DOI	10.48309/ajca.2026.535441.1886