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WEB OF SCIENCE RESEARCHER ID: V-3043-2019 ORCID: <https://orcid.org/0000-0002-9800-6093>

RESEARCH AND EDUCATION FOCUS:

Soil Science (Pedology), Digital Soil Mapping, Soil Diversity, Soil Field Survey, Geospatial Technologies, Sustainable Soil Management, Landscape ecology, Micrometeorology, Agricultural Soil Science

EDUCATION:

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| 2000-2005 | Taraz State Pedagogical Institute, Kazakhstan, Bachelor of Biology-Chemistry Science |
| 2005-2007 | Taraz State University named after Dulary, Kazakhstan, Master of Biology Science in Biology
<i>Thesis: Biological characteristics of Entomophthoraceae (Phycomycetes)</i> |
| 2007-2011 | Kazakh Research Institute of Soil Science & Agricultural Chemistry, Kazakhstan PhD, Soil science
<i>Thesis: The influence of domestic microbiological fertilizer "MERS" on the productivity of winter wheat of the local "Almaly" variety and on the fertility of irrigated serozemic soils of the South-East of Kazakhstan</i> |
| 2012-2013 | Ondokuz Mayıs University, Turkey Post.Doc., Soil Biology
<i>Thesis: Soil microbiological characteristics and yield response of spring wheat (Triticum Aestivum) affected by inoculation of different microbial strains with wheat straw</i> |
| 2020-2021 | Deutsch-Kasachische Universität (DKU), Natural Resources Institute, Kazakhstan Post.Doc., Water Science and Climate Change |
| 2022-2023 | Kazakh National Agrarian Research University, Kazakhstan, EMBA
<i>Thesis: Decarbonization of the agricultural economy and pathways to carbon neutrality in Kazakhstan</i> |

WORK EXPERIENCE:

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| 01.02.18-present | Head of the Sustainable Agriculture Center,
Kazakh National Agrarian Research University, Almaty, Kazakhstan |
| 01.08.07-31.01.18 | Soil scientist,
Kazakh Research Institute of Soil Science & Agricultural Chemistry, Almaty, Kazakhstan |
| 01.09.05-25.05.07 | Research Assistant in Biology,
Taraz State Pedagogical Institute, Taraz, Kazakhstan |
| 01.08.02-31.05.03 | Teacher of Biology and Chemistry,
private secondary school "Aziya" Taraz, Kazakhstan |

LANGUAGES

Russian, Kazakh, English, Turkish

PROJECTS

- Executor-CLIENTII- Land management project on the theme: *"Reclamation of saline cropland in Central Asia using adapted raw plants and added value of textiles as an alternative to cotton. TP: Methods of harvesting / first processing, as well as quality control system for straw and fibers of Kendyr"* (01.07.2021-30.06.2024).
- Head of the Kazakhstan project of the Ministry of Education and Science of the Kazakhstan on the topic: *"Assessment of the effectiveness of various land use systems to mitigate climate change by reducing gases and an increase in albedo"* (2021-2023).
- Head of the USAID project (PEER 9 cycle) on topic: *"The effects of excessive water use and agricultural intensification on Aral Sea shrinkage: socioeconomic-environmental systems (SES) dynamics within the Syr Darya River Basin"* (2021-2023).
- Collaborator at the project *Interdependent Dynamics of Food, Energy and Water in Kazakhstan and Mongolia: Connecting LULCC to the Transitional Socioecological Systems*. (2020-2023) NASA project.
- Compiler of the education program curriculum *"Plant Science and Technology"* in collaboration with KazNARU, Kazakhstan and Wageningen University, the Netherlands (2021).
- Member of research team at the project title: *"Alternative approaches to mitigation of dust fallout from mine operations: Feasibility study into opportunities of using nature to trap contaminated dust with phytocapture concept"*, SKRI, Tauw, and AAEngineering Group (June 2020-October 31, 2023).
- Development and coordination of the project *"Assessment of the resource base for the development of the production and technological base of the meat production chain"* jointly with the Asian Development Bank, the US Department of Agriculture, the Michigan State University (2020-2021)
- National expert in international project: TA-9477 KAZ: National Water Expert - Flood management (Almaty) (51364-in Asian Development Bank (ADB) from 08 May 2018 to 20 September 2018.
- Development of the project *"Implementation of a geospatial system for monitoring and assessing the degree of soil degradation in the southern and southeastern regions of Kazakhstan"* (2015-2017)
- Organization of conferences and forums: The Central Asian AgTech Summit 2018 (Central Asian AgTech Summit 2018) Almaty, The Central Asian AgTech Summit 2019 (Central Asian AgTech Summit 2019) Almaty, Forum *"Formation of the agro- industrial complex based on knowledge"*, November 9, 2018, Almaty, International Agri technological Summit 2020.