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MAKHMUDOVA

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Academic Title: Professor, PhD

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Scopus ID: ID 59178648300

Research Areas

Water resource management ●●●●●

hydrochemistry ●●●●●

hydrology ●●●●●

investigating the quality of water
resources ●●●●●

water supply ●●●●●

waste water modeling of system
processes ●●●●●

water treatment technology. ●●●●●

Languages

English ●●●●●

Education

Karshi engineering-economic institute Sep 1993 - May 1998
The economy of branches of agroindustrial complex and its ruling
Master of Science - Uzbekistan

Council of the Reserach Institute of Hydrometeorolgy Sep 2002 - May 2006
Technics
Doctor of Philosophy (PhD) - Uzbekistan

Employment

Professor, PhD Oct 2025 - Present
Tashkent University of Architecture and Civil Engineering, Tashkent

Description: Professor, Tashkent University of Architecture and Civil Engineering, (Tashkent, Uzbekistan)

Sep 2015 - Oct 2025
Tashkent University of Architecture and Civil Engineering

Description: Associate Professor, Tashkent University of Architecture and Civil Engineering, (Tashkent, Uzbekistan)

Senior scientific researcher May 2012 - Jan 2015
Scientific Research Institute of Irrigation and Water Problems

Description: Senior scientific researcher, Scientific Research Institute of Irrigation and Water Problems, (Tashkent, Uzbekistan)

Senior scientific researcher Jul 2006 - May 2012
Institute of Water problems of the Uzbek Academy of Sciences, laboratory of methodology of complex use and protection of water resources

Description: Senior scientific researcher, Institute of Water problems of the Uzbek Academy of Sciences, laboratory of methodology of complex use and protection of water resources, (Tashkent, Uzbekistan)

Scientific researcher Sep 2004 - Jan 2006
Institute of Water problems of the Uzbek Academy of Sciences, laboratory of methodology of complex use and protection of water resources

Description: Scientific researcher, Institute of Water problems of the Uzbek Academy of Sciences, laboratory of methodology of complex use and protection of water resources,.(Tashkent, Uzbekistan)

Publications

Analysis of wastewater treatment methods from pesticidet treatment
M. Aliyev, D.Makhmudova, B.Tulbayev, N.Shamsiyeva
E3S Web of Conferences 563, 03089 (2024)
DOI: <https://doi.org/10.1051/e3sconf/202456303089> ICESTE 2024

Russian ●●●●●

Grants & Projects

- 2015–2017: 1. QXA-7-019-2015
"Development of methods for modeling the use of water for irrigation of cotton on the farm on the basis of water-saving technologies." (Principal investigator) 2015-2017. (GKNT)
- 2007–2008: 2. QFA-2008
"Determination of the laws of hydraulic resistance, water temperature and salinity regime for mixed flow movement in water bodies". (Principal investigator) 2007-2008. (GKNT)
- 2008–2009: 3. "Microbiological safety of drinking water in Uzbekistan and the Kyrgyz Republic" Project regional and developed within the framework programs of NATO FOR PEACE EST.EAP.SFP 982811. (Co-Principal investigator) 2008-2009. (NATO FOR PEACE EST.EAP.SFP 982811)
- 2022–2022: International training week organized by the international relations office of Bialystok University of Technology. Poland From 12 to 16 December, 2022 (ERASMUS+)
- 2023–2023: NAWA project/ 09-13 January 2023 (NAWA)
- 2007–2007: Area-focused Training Course in Water Quality Monitoring in Central Asia at International Center for Environmental Technology Transfer (ICETT) November 09/2007 to December 14.2007 (Japan International Cooperation Agency (JICA) under the International Cooperation Program of the Government of Japan)

Patents & Industry

- Suv ta'minoti tizimlari ish rejimlarini gidravlik modellashtirish xisobi (2024)
No 41352 — Uzbekistan

Analysis of scenarios for the organization of heat supply to mountain territories based on integrated solutions for their sustainable development

Makhmudova D.E., Verstina N. G.

Sustainable development of mountain territories. T 15, № 4. C. 815–824.

DOI: DOI: 10.21177/1998-4502-2023-15-4-815-824.

Mathematical modeling of reducing water consumption in drinking water treatment facilities

D. Makhmudova; M.Rustamova; R.Xujakulov; N.Begmatova

VI INTERNATIONAL SCIENTIFIC CONFERENCE CONSTRUCTION MECHANICS, HYDRAULICS & WATER RESOURCES ENGINEERING (CONMECHYDRO 2024)

DOI: //https://pubs.aip.org/aip/acp/article/3286/1/040035/3350286/2025)

<https://doi.org/10.1063/5.0280595>

Static Mixer Apparatus for blending Ozone with water in the Process Pipeline

I.E. Makhmudov, , M.K. Aliev, D.E. Makhmudova, Sh.M. Musayev , M.M. Rustamova, D.B. Nematov

E3S Web of Conferences 449, 06014 (2023)

DOI: <https://doi.org/10.1051/e3sconf/202344906014> PDSED 2023// https://www.e3s-conferences.org/articles/e3sconf/pdf/2023/86/e3sconf_pdsed2023_06014.pdf

Study and analysis of corrosion in sewage collectors

Dildora Maxmudova, Makhmud Aliyev, Anatolii Gurinovich, Zarif Tursunov, and Sardor Mamadiyorov

E3S Web of Conferences 627, 05008 (2025)GEOTECH-2025

DOI: <https://doi.org/10.1051/e3sconf/202562705008/> https://www.e3s-conferences.org/articles/e3sconf/abs/2025/27/e3sconf_geotech2025_05008/e3sconf_geotech2025_05008.html

Analysis and assessment method of the Chirchik river flow for water supply and water use

Makhmudova D., H. Makhmudov

E3S Web of Conferences 264,01045(2021)

DOI: <https://doi.org/10.1051/e3sconf/202126401045>www.e3s-conferences.org (<https://doi.org/10.1051/e3sconf/202126401045>)

. Environmental regulation of contaminants for the extraction and processing of non-metal rocks

Makhmudova, D., Makhmudov, I., Musaev, S., ...Alibekova, N., Boboeva, G

AIP Conference Proceedings 3045(1)

DOI: <https://www.scopus.com/feedback/author/reviewAuthorProfile.uri?authorIds=59178648300#:~:text=2024>

Ways to determine and reduce the volume of unaccounted for and irrationally used water in Tashkent /

Makhmudova, D.E., Aliev, M.K., Tulbaev, B.B., ...Shamsieva, N.M., Abbasova, A.O.

DOI: <https://www.scopus.com/feedback/author/reviewAuthorProfile.uri?authorIds=59178648300#:~:text=Ways%20to%20determine,2024>

Environmental Protection Against Pollution by Domestic Drain in Uzbekistan

Makhmudova D.E., Mashrapov B.

Journal of advances in Natural Science

DOI: (ISSN 23939257, ICV 2015-82,77, DOI: <https://doi.org/10.24297/jns.v6i0.8244>).

Using Algae for Biofuel Production

Agata Jabłońska-Trypuć, Elżbieta Wójcik, Aleksandra Głowacka, Makhmudova D.E.,
Gabriela Sokołowska

A Review. Energies 2023

DOI: 16, 1758. <https://doi.org/10.3390/en1604175>,
<https://www.mdpi.com/journal/energies>

Teaching

Water supply and sewerage systems	2024-2025
Hydrogeology and engineering geology	2025-2026
Sewerage water treatment	2025-2026
Technology of water treatment Magistr	2025-2026
Technology of Sewerage water treatment Magistr	2025-2026

PhD Supervision

M.M. Rustamova	2024
Improvement of hydraulic calculation methods of composite material water pipes in the drinking water supply system	
S.S.Axmadaliyev	2026 - Present
Improving the operation of water supply systems using digital technologies	
Najmiddinova V.A.	2026 - Present
Development of technology for the application of highly effective ion exchangers for the treatment of industrial wastewater	
Shonazarov Z.I.	2026 - Present

International Activity

Area-focused Training Course in Water Quality Monitoring in Central Asia at International Center for Environmental Technology Transfer (ICETT), organized by the Japan International Cooperation Agency (JICA) under the International Cooperation Program of the Government of Japan. November 09/2007 to December 14.2007 JICA, JAPAN	2007
Training Course in France by Project (UNDP) “Microbiological safety of drinking water in Uzbekistan and Kyrgyz Republic “25 June 2008 to 17 July 2008 Microbiological institute , France	2008

Training Course in Belarus “10 September 2019 to 10 October 2019 <i>BNTU, Belarus</i>	2019
Training Course in Russia by Project “El-Yurt Umidi” Foundation “25 November 2019 to 25 December 2019 <i>SPbGASU, Russia</i>	2019
Training Course Water Academy in Korea/ 2021.12.20-2021.12.24 <i>Water Academy in Korea, Korea</i>	2021
International training week organized by the international relations office of Bialystok University of Technology. Poland From 12 to 16 December, 2022 <i>Bialystok University of Technology, Poland</i>	2022
Study visit in Poland by NAWA project/ 09-13 January 2023 <i>BTU, Poland</i>	2023

Professional Membership

Commemorative sign "30 years of Independence of the Republic of Uzbekistan" 2021 year 30-th may

2025 year The higher education excellence of the Republic of Uzbekistan is awarded with a breastplate