

Name **Vakhtang**

Surname **Geladze**

Address Tamarashvili St. 6, 0179, Tbilisi, Georgia

E-mail [vakhtang.geladze@tsu.ge](mailto:vakhtang.geladze@tsu.ge)

### Research papers

Karalashvili T., Bolashvili N., Geladze V., Imnadze G. The Experimental Research of Ablation of Adishi Glacier Tongue. online, Georgian Geographical Journal, 2022, Vol. 2, p.51-61. E-ISSN: 2667-9701. doi: <https://doi.org/10.52344/ggj>

Vakhtang Geladze, Nana Bolashvili, Tamazi Karalashvili, Nino Machavariani, Ana Karalashvili, George Geladze, Nana Kvirkvelia. Calculation of Water Economy Balance for Water Management. World Academy of Science, Engineering and Technology International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering, 2019, Vol: 13, No:3. ISNI:0000000091950263

Geladze V., Javakhishvili A. Average annual runoff Steiner-Verlag, National Atlas of Georgia, 2018, p. 59. ISBN 978-3-515-12057-9(print). ISBN 978-3-515-12183-5(ebook)

Geladze V., Javakhishvili A. Average annual runoff distribution by basins Steiner-Verlag. National Atlas of Georgia, 2018, p. 60. ISBN 978-3-515-12057-9(print). ISBN 978-3-515-12183-5(ebook)

Geladze V., Javakhishvili A. Runoff distribution by regions Steiner-Verlag. National Atlas of Georgia, 2018, p. 61. ISBN 978-3-515-12057-9(print). ISBN 978-3-515-12183-5(ebook)

Bolashvili N., Geladze V. Hydrology. Steiner-Verlag. National Atlas of Georgia, 2018, p. 58. ISBN 978-3-515-12057-9(print) ISBN 978-3-515-12183-5(ebook)

Nana Bolashvili, Tamaz Karalashvili, Vakhtang Geladze, Nino Machavariani, Ana Karalashvili, Nino Chikhradze, Giorgi Geladze, David Kartvelishvili. Sustainable Management of Water Resources on the Background of Current Climate Change. Earth Sciences, 2017, Vol. 6, No. 5. ISSN: 2328-5974 (Print); ISSN: 2328-5982 (Online). doi: 10.11648/j.earth.20170605.13

Vakhtang Geladze, Nana Bolashvili, Tamazi Karalashvili, Nino Machavariani. Assessment of Water Resources and Inculcation of Controlled Water Consumption System. World Academy of Science, Engineering and Technology International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering, 2017 Vol: 11, No: 5, p.457-460. DOI:10.5281/zenodo.1131587

Vakhtang Geladze, Nana Bolashvili, Tamazi Karalashvili, Nino Machavariani. Geographical Information System for Sustainable Management of Water Resources. International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering 2016, Vol: 10, No:3, p.349-353. DOI: 10.5281/zenodo.1339362

Nana Bolashvili, Nino Machavariani, Vakhtang Geladze, Tamazi Karalashvili. Problems of water management and sediment runoff of Eastern Georgia. Almaty, Proceedings of the International Conference on Water Resources and their Use in Central Asia, 2016, pp.48-53. ISBN 978-601-7150-81-5

O. Paresishvili, V. Mirzaeva, T. Urushadze, J. Machavariani, N. Chitanava, R. Pirtskhalava, Z. Lomsadze, k. Makharadze, V. Geladze, T. Patarkalashvili, G. Magalashvili, A. Suladze, J. Kakulia, A. Dvaladze, N. Tsertsvadze, N. Mirianashvili, k. Vezirishvili-Nozadze, D. Chomakhidze, R. Arveladze, T. Jishkariani, M. Metreveli, L. Kvaratskhelia, I. Meskhia, L. Chikava, V. Lortkipanidze, A. Sakhvadze. Natural Resources of Georgia. Tbilisi, 2015

Nana Bolashvili, Tamaz Karalashvili, Vakhtang Geladze, Nino Machavariani. Efficient use of water resources in Agriculture. Elsevier, Procedia Environmental Sciences, 29 (2015), pp. 107 – 108. <https://doi.org/10.1016/j.proenv.2015.07.185>

Nana Bolashvili, Vakhtang Geladze, Tamazi Karalashvili, Nino Machavariani. Creation of Management System Basis for Kakheti Water Resources. TSU, Proceedings ICAE-2015, International Conference Applied Ecology: Problems, Innovations. Iv. Javakhishvili Tbilisi State University, Institute of Applied Ecology. Tbilisi-Batumi. ISBN 978-9941-0-7644-2, p. 79-82. ISBN 978-9941-0-7644-2

Bolashvili N., Geladze V., Karalashvili T., Machavariani N. Analysis of biophysical factors causing desertification in Georgia. TSU, Proceedings of Vakhushiti Bagrationi Institute of Geography, new series 6(85), 2014, p.p. 76-83. ISSN 2233-3347

Geladze V., Karalashvili T., Machavariani N. The problems of management of Kakheti water resources on the background of desertification. TSU, Proceedings of Vakhushiti Bagrationi Institute of Geography, new series 5(84), 2013, p.p. 209-211.

- Geladze V., Bolashvili N., Javakhishvili A., Machavariani N. Inland Waters. TSU, 2013, p. 324. ISBN 978-9941-13-280-3
- Geladze V., Karalashvili T., Machavariani N. The problems of management of Kakheti water resources on the background of desertification. Proceedings of Vakhushti Bagrationi Institute of Geography, new series 5(84), 2013, p.p. 209-211. ISSN 2233-3347
- Geladze V., Javakhishvili A., Kartvelishvili D. World Physical Map. JSC Cartography, National Atlas of Georgia, 2012, p.14-15
- Geladze V., Javakhishvili A., Kartvelishvili D. Europe, political map. JSC Cartography, National Atlas of Georgia, 2012, p.16
- Geladze V., Javakhishvili A., Kartvelishvili D. Caucasus, physical map. JSC Cartography, National Atlas of Georgia, 2012, p.18-19
- Geladze V., Javakhishvili A., Kartvelishvili D. Administrative-territorial division. JSC Cartography, National Atlas of Georgia, 2012, p.21
- Geladze V., Javakhishvili A., Kartvelishvili D. Georgia, physical map. JSC Cartography, National Atlas of Georgia, 2012, p.22-23
- Geladze V., Javakhishvili A. Hydrography. JSC Cartography, National Atlas of Georgia, 2012, p.80-81
- Geladze V., Javakhishvili A. The average annual flow of rivers. JSC Cartography, National Atlas of Georgia, 2012, p.82
- Geladze V., Javakhishvili A. Distribution of the average annual runoff by basins. JSC Cartography, National Atlas of Georgia, 2012, p.83
- Geladze V., Javakhishvili A. Average annual runoff. JSC Cartography, National Atlas of Georgia, 2012, p.89
- Geladze V., Javakhishvili A. River sources. JSC Cartography, National Atlas of Georgia, 2012, p.90
- Geladze V., Bolashvili N., Machavariani N., Karalashvili T. Water resources of Georgia. TSU, Proceedings of Vakhushti Bagrationi Institute of Geography, new series 4(83), 2012, p.p. 84-194. ISSN 2233-3347
- Emil Tsereteli, Ramin Gobejishvili, Nana Bolashvili, Vakhtang Geladze, Giorgi Gaprindashvili. Crisis Intensification of Geoecological Situation of The Caucasus Black Sea Coast and The Strategy of Risk Reduction. Procedia- Social and Behavioral Sciences, 2011, volume 19, p.709-715. doi:10.1016/j.sbspro.2011.05.189
- Machavariani N., Geladze V., Bolashvili N., Karalashvili T. Problems of rational usage of Kakheti water resources on the background of expected climate change. TSU, Proceedings of Vakhushti Bagrationi Institute of Geography, new series 3(82), 2011, p.p. 247-251. ISSN 2233-3347
- Geladze V., Bolashvili N., Karalashvili T., Machavariani N. Influence of Jvari water reservoir on some meteorological elements. Transactions of the institute of Hydrometeorology, 2011, Vol.117, p. 38-40. ISSN 1512-0902
- Bolashvili N., Geladze V., Geladze G., Karalashvili T., Machavariani N. Management of Water Resources of Georgia Meta-Basim, Izmir, Turkey/ IKES 2011, International symposium on Kazdaglari (mount Ida) and Edremit, 2011, p.595-599. ISBN 978-605-87840-0-0
- Bolashvili N., Geladze V., Karalashvili T. Flood forecasting by the theory of recognizing images. International symposium on Floods and Modern Methods of Control Measures, 2009, p.46-52. ISSN-1512-2345
- Geladze V., Geladze G., Bolashvili N., Machavariani N. Stability and the quality of the available water resources of Georgia. Baku, Transactions of the Azerbaijan Geographical Society, 2009, V.14, p.370-373. N 098-2009
- Bolashvili N., Geladze V., Geladze G., Machavariani N. The basin management of water resources. Universali, Proceedings of Vakhushti Bagrationi Institute of Geography, new series 2(81), 2008, p.p. 271-275. ISBN 99940-61-19-4
- Geladze V., Geladze G., Bolashvili N., Machavariani N. Potencial of fresh water resources of Georgia and management. Transactions of the institute of Hydrometeorology, 2008, Vol.115, p. 41-46. ISSN 1512-0902
- Bolashvili N., Geladze V., Javakhishvili A., Kartvelishvili D. GIS- basis of water management. Yerevan University, Conference proceedings, 2007, p.288-291. ISBN 978-5-8084-0831-9
- Geladze V., Javakhishvili A., Kartvelishvili D. Physical Map of Georgia (Scale 1:600000). Tbilisi, 2005
- Geladze V., Javakhishvili A., Kartvelishvili D. Physical Map of Caucasus (scale 1:1 300 000). Tbilisi, 2005

### Participations in conferences

- 16-17 April, 2018. ICWM 2018 20th International conference Management of water resources. Water Economy Balance: As a Basis of Water Management System. Lisbon, Portugal. World Academy of science, engineering and technology
- 14-15 November, 2018. ICFEHP 2018 20th International Conference Fresh Water Ecosystems, Hydrology and Psiography. Assessment of territories water resources and its consumption based on water economy balance. Venice, Italy. World Academy of science, engineering and technology
- 30-31 October, 2017. ICWEEM 2017 19th International Conference water resources management. Potential Fresh Water Resources of Georgia and Sustainable Management. Barcelona, Spain. World Academy of science, engineering and technology
- 18-19 May, 2017. ICWEEM 2017 19th International Conference water, energy and environmental management. Assessment of water resources and inculcation of controlled water consumption system. Paris, France. World Academy of science, engineering and technology
- 22-23 September, 2016. Water Resources of Central Asia and their Use. Problems of Management of Water Resources and Solid Flow on the Eastern Georgian Rivers. Almaty, Kazakhstan. Ministry of Agriculture and Ministry of Education and Science of the Republic of Kazakhstan, Kazakh National Research Technical University, jointly with the Institute of Geography of Kazakhstan, supported by the Swiss Federal Department of Foreign Affairs, as well as UNESCO Almaty Cluster Office and UNESCO International Hydrological Programme UNESCO IHP
- 21-22 March, 2016. ICEG: 16th International Conference on Geomatics engineering. Geographical Information System for Sustainable Management of Water Resources. Rome, Italy. World Academy of science, engineering and technology
- 29-31 March, 2016. Economic Prosperity through Research and Development in Natural Products. Sustainable Management of Water Resources on the Background on Current Climate Change. Kathmandu, Nepal. AASSA (Association of Academies and Societies of Sciences in Asia) and Nepal Academy of Science and Technology
- 9-10 April, 2015. Sustainable Management of Food Security. Problems of Management of Water Resources in Accordance with the Current Climate Change. Istanbul, Turkey. AASSA (Association of Academies and Societies of Sciences in Asia) and Turkish Academy of Sciences
- May 7-10, 2015. International Conference Applied Ecology: Problems, Innovations. Creation of Kakhnetian Water Resources Management System. Batumi, Georgia. TSU
- 17-18 September, 2015. Problems of adaptation to geo- and natural-economic systems of modern global changes. Problems of Management of Water Resources and Solid Flow of Kakhnetian Rivers. Baku, Azerbaijan. H. Alyev Institute of Geography
- February 15-17, 2015. Agriculture and Climate Change (Adopting crops to increased uncertainty). Efficient Use of Water Resources in Agriculture. Amsterdam, Netherlands. Elsevier Ltd
- June 25-29, 2014. SUSTAINABLE MANAGEMENT OF WATER RESOURCES AND CONSERVATION OF MOUNTAIN LAKE ECOSYSTEMS OF ASIAN COUNTRIES. Water Resources of Eastern Georgia. Yerevan, Armenia. AASSA
- June 12, 2014. Modern problems of social geography. Analysis of biophysical factors causing desertification in Georgia. Tbilisi, Georgia. Institute of Geography
- 21-24 May, 2013. 3rd BioHydrology Conference - Water for Life. Necessity of Sustainable Management of Water Resources on the Background of the Current Climate Change. Landau, Germany. University of Koblenz-Landau
- 16-17 November, 2012. Scientific conference dedicated to 100th anniversary of prof. Levan Maruashvili. Water resources of Georgia. Tbilisi, Georgia. Institute of Geography
- 12-15 June, 2012. European Congress on Regional Geoscientific Cartography and Information System GIS of Georgian Water Resources. Bologna, Italy. 7th EUROGEO
- 5-7 May, 2011. International Symposium on Kaz Mountains and Edremit, IKES 2011. Management of Water Resources of Georgia. Edremit, Turkey. Edremit municipality
- 23-28 September, 2009. Floods and Modern Methods of Control Measures. Flood Prediction by the Theory of Recognizing Images. Tbilisi, Georgia. Georgian Water management Institute
- 24-25 October, 2008. Current problems of geography of mountainous regions the basin management of water resources. Tbilisi, Georgia. Institute of Geography

### Research grants

- 08.05.2018-08.03.2019. Delineation of surface water bodies in Alazani-Iori and Khrami-Debeda basin in Georgia. European Union. Expert
- 01.01.2017-30.09.2018. Monitoring and Assessment of the Impact of Droughts on Water Resources and Their Effective Use in Georgia. European Union. Expert
- 02.07.2012-28.02.2017. Development of Flooding Management Practices to Protect Vulnerable Population in Georgia. UNDP. Expert
- 08.04.2012-08.04.2013. Implementation of European Union Directives on Flood Risk Assessment in Georgian Legislation. European Union. Expert
- 05.03.2012-04.03.2014. Climate Changes and Technological Needs Assessment. UNDP/GEF. Expert
- 09.01.2012-07.09.2012. Reduction and Trans-Boundary Degradation in the Mtkvari-Arakasi River Basin. UNDP/GEF. Expert
- 01.02.2010-03.12.2010. Management of Trans-Boundary Rivers - Phase II of the Mtkvari River Basin - Armenia, Azerbaijan, Georgia. European Union. Expert
- 29.11.2016-29.11.2018. Creation of the Kvemo Kartli Water Resources Management System Basis. Shota Rustaveli National Science Foundation of Georgia. Key personnel
- 04.04.2014-04.04.2016. Creation of a Basin Management System of Kakhetian Water Resources. Shota Rustaveli National Science Foundation of Georgia. Key personnel
- 01.03.2009-01.03.2011. Study of Environment's Negative Changes in Kakheti Region Caused by Natural Hazards and Elaboration of Their Mitigation Measures. Shota Rustaveli National Science Foundation of Georgia. Principal Investigator
- 14.11.2006-14.11.2009. National Atlas of Georgia. Shota Rustaveli National Science Foundation of Georgia. Principal Investigator
- 2003-2005. Creation of hydrological information system in Georgia. Georgian Academy of Sciences. Principal Investigator
- 2001-2003. The resource potential of Georgia's river runoff and the basis for its integrated management. Georgian Academy of Sciences. Key personnel
- 2001-2002. Creation of a geographic information system for the Aragvi river basin. REC Caucasus (Caucasus Regional Environmental Center). Key personnel

### Other Activities

2008. Proceedings of the International Conference Current Problems of Geography of Mountainous Regions. Georgia. Member of editorial board