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Research papers

- Tsitsagi M., Gulashvili Z., Bolashvili N., Tatishvili M., Suknidze N. RELATIONSHIP BETWEEN NORMALISED DIFFERENCE VEGETATION INDEX, PRECIPITATION AND DROUGHT INDICES (CASE OF KAKHETI, GEORGIA). 22nd International Multidisciplinary Scientific GeoConference SGEM 2022, Vol22, Issue 4.1 02-11 July, 2022, Albena, Bulgaria ISSN 1314-2704, ISBN 978-619-7603-44-6
- L. Matchavariani, G. Metreveli, Z. Gulashvili. Positives and Negatives of Water Reservoirs. Publishing House Samshoblo, 2022, p. 200. ISBN 978-9941-9784-6-3
- Matchavariani L., Metreveli G., Gulashvili Z. Assessment Scheme of Water-Reservoirs Impact on Groundwater. GEOMATE International Society, International Journal of GEOMATE, Feb., 2022, Vol.22, Issue 90, pp. 110-117. ISSN 2186-2982. <https://doi.org/10.21660/2022.90.7504>
- Matchavariani L., Metreveli G., Gulashvili Z. Role of Water Reservoirs in the Seashore Dynamics. SGEM WORLD SCIENCE, Proceedings of 21th International Multidisciplinary Scientific Geoconference SGEM2021; 2021, Vol. 21, book 3.1, pp. 285-292. SBN 978-619-7603-24-8. ISSN 1314-2704. <https://doi.org/10.5593/sgem2021/3.1/s12.37>
- Matchavariani L., Metreveli G., Gulashvili Z. Investigation of Water-Reservoirs Impact Mechanism on Groundwater and Indicator Scheme of Assessment. GEOMATE International Society, Proceedings of 7th Int. Conference on Structure, Engineering & Environment (SEE), 2021; pp. 452-457. ISBN: 978-4-909106070 C3051
- A. Amiranashvili, N. Bolashvili, Z. Gulashvili, N. Jamrshvili, N. Suknidze, Kh. Tavidashvili. Modeling the Distribution of Hailstones by Mean Max Sizes on the Territory of Kakheti (Georgia). Using Data of the Freezing Level in the Atmosphere and Radar Measurements. Georgian Geophysical Society. Physics of Solid Earth, Atmosphere, Ocean and Space Plasma; 2021, v. 24(1); pp. 25-36. ISSN 1512-1127. <https://doi.org/10.48614/ggs2420212881>
- Z. Gulashvili. Irrigation and Water Supply Recommendation Scheme in Rioni River Basin.. SGEM WORLD SCIENCE, Proceedings of 20th International Multidisciplinary Scientific Geoconference. SGEM2020, 2020, Vol. 20, book 3.1, pp. 217-224. ISBN 978-619-7603-08-8. ISSN 1314-2704. <https://doi.org/10.5593/sgem2020/3.1/s12.029>
- L. Matchavariani, G. Metreveli, Z. Gulashvili. Estimation of Climatic Background and its Regional Parameters. SGEM WORLD SCIENCE, Proceedings of 20th International Multidisciplinary Scientific Geoconference SGEM2020, 2020, Vol. 20, book 4.1, pp. 423-432. ISBN 978-619-7603-09-5. ISSN 1314-2704. <https://doi.org/10.5593/sgem2020/4.1/s19.053>
- T. Chichinadze, Z. Gulashvili, T. Tskhakaia. Creation of Geo-Information System of Administrative-Territorial Division of Georgia, Mapping and Analysis by 1926 Year Census Date. Publishing House Technical University, Journal Science and Technologies, 2019, 1(730), pp. 17-27. SSN 0130-7061. Index 76127
- G. Metreveli, L. Matchavariani, Z. Gulashvili. Method for hydrological parameters definition of silting prism and equilibrium bed in water reservoirs. SGEM WORLD SCIENCE, Proceedings of 19th International Multidisciplinary Scientific Geoconference. SGEM2019, vol. 19, #3.1, pp. 363-368. ISBN 978-619-7408-81-2. ISSN 1314-2704. <https://doi.org/10.5593/sgem2019/3.1>
- Z. Gulashvili. Plant Growing Steiner Verlag, National atlas of Georgia, 2018, p. 105. ISBN 978-3-515-12057-9 (print); ISBN 978-3-515-12183-8 (Ebook)
- Z. Gulashvili. Animal Breeding Steiner Verlag, National atlas of Georgia, 2018, p. 106. ISBN 978-3-515-12057-9
- L. Matchavariani, G. Metreveli, D. Svanadze, Z. Gulashvili. Spatial-Temporal Distribution, Genesis and Transportation of Bottom Sediments. SGEM WORLD SCIENCE, Proceedings of 17th International Multidisciplinary Scientific Geoconference, SGEM 2017, vol. 17(31), pp. 617-623. ISBN 978-619-7408-81-2. ISSN 1314-2704. <https://doi.org/10.5593/sgem2017/31>
- L. Matchavariani, G. Metreveli, L. Laghidze D. Svanadze, Z. Gulashvili. Solution of Reservoirs' Siltation Problem for Hydropower Development and Coastal Protection. GEOMATE International Society, International journal GEOMATE, Nov., 2017, Vol.13, Issue 39, pp.206-212. ISSN: 2186-2990. <https://doi.org/10.21660/2017.39.2547>
- L. Laghidze, L. Matchavariani, G. Metreveli, N. Tivtsivadze, N. Paichadze, Z. Gulashvili, D. Svanadze. Evaluation of Climate Parameters of Black Sea Coastline in the Background of Climate Change. Triveni Enterprises, Journal of Environmental Biology, 2017, vol. 38(5), pp. 1069-1077. ISSN: 0254-8704 (Print). ISSN: 2394-0379 (Online). [http://doi.org/10.22438/jeb/38/5\(SI\)/GM-25](http://doi.org/10.22438/jeb/38/5(SI)/GM-25)

- L. Matchavariani, G. Metreveli, L. Laghidze, Z. Gulashvili, D. Svanadze, N. Paichadze. Positive Aspects of Studying the Sedimentations in Reservoirs Through the Natural Experiments. Triveni Enterprises, Triveni Enterprises, Journal of Environmental Biology, 2017, Vol. 38(5), pp. 1155-1159. ISSN: 0254-8704 (Print). ISSN: 2394-0379 (Online). [http://doi.org/10.22438/jeb/38/5\(SI\)/GM-36](http://doi.org/10.22438/jeb/38/5(SI)/GM-36)
- L. Matchavariani, G. Metreveli, M. Alaverdashvili, L. Laghidze, D. Svanadze, Z. Gulashvili, G. Bregvadze. Results of Field Experiments of Reservoirs' Siltation for Harmonious Realization of Hydropower and Coastline Problems. GEOMATE International Society, Proceedings of Second International Conference on Science, Engineering & Environment (SEE-Osaka), Nov. 21-23, 2016, pp. 639-644. ISBN 978-4-9905958-7-6 C3051
- D. Kereselidze, V. Trapaidze, Z. Gulashvili. Water Quality Variability of the river Rioni. International Center for Research and Development, proceedings of 4th International Conference Climate change. Adaptation 2015, pp. 48-55. ISBN 978-955-4543-30-0
- N. Tsvitsivadze, E. Khatiashvili, Z. Askurava, L. Matchavariani, L. Laghidze, N. Motsonelidze, G. Ivanov, N. Paichadze, Z. Gulashvili. Measures of Drinking Water Supply Reservoirs Ecological Problems. Proceedings of international conference Applied Ecology: Problems, news, 2015, pp. 288-291. ISBN 978-9941-0-76442
- D. Kereselidze, L. Matchavariani, V. Trapaidze, L. Laghidze, D. Svanadze, G. Bregvadze, Z. Gulashvili. Quantitative Assessment of Permissible Loads on Georgia's Soil. Science Publishing Group, American Journal of Environmental Protection, May 2015, Volume 4, Issue 3-1, P. 29-33. ISSN 2328-5680 Print. ISSN 2328-5699 Online. <https://doi.org/10.11648/j.ajep.s.2015040301.15>
- D. Kereselidze, V. Trapaidze, Z. Gulashvili, Z. Jikia. History of the Study of the Wetlands of Kolkheti and Prospects for Future Development. Proceedings of international conference Kolcheti Lowland Water Ecosystems - Protection and Efficient Use, 2013; pp. 59-62. ISBN 978-9941-0-5792-2
- G. Dvalashvili, Z. Gulashvili, E. Aleksandria, S. Kvavadze. Assessment of Natural Factors of Poti-Kobuleti Micro-district of Wetlands of Kolkheti Lowland. Proceedings of international conference Modern Problems of Geography, 2013, N5 (84), pp. 100-106. ISSN 2233-3347
- Z. Gulashvili. Observation Methods on Water Ecosystems. Georgian Academy Press, Bulletin of the Georgian National Academy of Sciences, 2005, Vol. 171, N1, pp. 82-84. ISSN 0132-1447

Participations in conferences

- 10-12 November, 2021. 7th International Conference on Structures, Engineering & Environment - SEE-Pattaya. Investigation of Water-Reservoirs. Impact Mechanism on Groundwater and Indicator Scheme of Assessment. Pattaya, Thailand. The GEOMATE. International Society
- 3-7 February, 2020. TSU. 8th annual faculty conference in exact and natural sciences. Assessment of Water Reservoir Impact on Local Climate Parameters. Tbilisi, Georgia. TSU, Faculty of Exact and Natural Sciences
- 3-7 February, 2020. TSU. 8th annual faculty conference in exact and natural sciences. European Water Resources Management Policy and Georgia - Problems, Analysis. Tbilisi, Georgia. TSU. Faculty of Exact and Natural Sciences
- 17-30 July, 2020. TSU. Faculty conference in exact and natural sciences. Irrigation and Water Supply Recommendations Scheme for Rioni River Basin. Tbilisi, Georgia. TSU. Faculty of Exact and Natural Sciences
- 6-8 March, 2020. 6th International Conference on Knowledge & Innovation in Engineering, Science & Technology. Rioni River Water Management System – Irrigation and Water Supply Problems. Budapest, Hungary. Acavent
- 13-17 July, 2020. 19th Conference on Mountain Meteorology. Main Parameters of the Global Climate Change. Background in the Eastern Part of the Black Sea Region. Boston, USA (Online). American Meteorological Society (AMS)
- 22-24 May, 2019. Eurasian RISK- Integrated Management of Water Reservoirs Problems. Baku, Azerbaijan. Amir technical services LLC, Institute of Geography Azerbaijan National Academy of Sciences
- 25-26 November, 2019. International Conference on Climate Change. Method of Evaluate the Impact of the Water Reservoir on the Climate. Dubai, UAE. Aver conferences
- 11-15 February, 2019. TSU. 7th annual faculty conference in exact and natural sciences. Assessing of the Water Reservoirs Impact on the Environment and Population Safety. Tbilisi, Georgia. TSU. Faculty of Exact and Natural Sciences
- 21-23 November, 2016. 2nd International Conference on Science, Engineering & Environment (SEE-Osaka-2016). Results of Field Experiments of Reservoir's Siltation for Harmonious Realization of Hydropower and Coastline

Problems. Osaka, Japan. The GEOMATE. International Society, Japan 29 August - 1 September, 2016. 5th International EcoSummit Ecological Sustainability: Engineering Change (EcoSummit-2016). Application of Natural Experiments in order to Study of Sedimentation Prism Formation in Mountain Reservoirs. Montpellier, France. Society for Ecological Restoration (SER)

7-10 May, 2015. Applied Ecology: Problems, Innovations Measures of Drinking Water Supply Reservoirs Ecological Problems Solution. Tbilisi-Batumi, Georgia. TSU. Faculty of Exact and Natural Sciences

7-8 November, 2013. Modern Problems of Geography. Assessment of Natural Factors of Poti-Kobuleti Micro-district of Wetlands of Kolkheti Lowland. Tbilisi, Georgia. TSU. Vakhushti Bagrationi Institute of Geography

Research grants

02.03.2020-02.03.2023. Preparation of the Atlas of Zoonotic Infections in South Caucasus. Defense Threat Reduction Agency (DTRA), USA. Manager

03.09.2017-29.08.2019. Capacity building through partnership-based projects. Federal Ministry of Education and Research (BMBF), Germany. Researcher, Technical Editor

15.03.2022-14.03.2025. Modeling and mapping of erosion potential of atmospheric precipitation in Georgia. Shota Rustaveli National Science Foundation of Georgia. Coordinator

23.07.2021-22.01.2022. Positives and Negatives of Water Reservoirs. Shota Rustaveli National Science Foundation of Georgia. Coordinator

25.11.2019-25.07.2020. Integrated water resources management of the Rioni River Basin. International Education Center Alumni Association. Principal Investigator

26.09.2019-26.03.2020. Quantitative assessment and management of water resources of the Rioni River (within the Kolkheti lowland). Shota Rustaveli National Science Foundation of Georgia. Principal Investigator

01.05.2019-20.09.2019. Known and unknown in western Georgia Cultural routes. Ministry of Education and Science of Georgia. Researcher

21.02.2019-20.02.2022. Methodology for assessing the negative impact of the reservoir on environmental and population safety. Shota Rustaveli National Science Foundation of Georgia. Coordinator

18.07.2016-12.10.2016. Disaster risk prevention and integrated management of water resources. Shota Rustaveli National Science Foundation of Georgia. Principal Investigator

22.11.2015-23.11.2015. International Conference on Climate Change Adaptation - CCA2015. Shota Rustaveli National Science Foundation of Georgia. Principal Investigator

02.11.2015-31.12.2015. Landscape-ecological assessment of Samtskhe-Javakheti for territorial planning through GIS-analysis. Shota Rustaveli National Science Foundation of Georgia. GIS Specialist

06.05.2015-12.05.2015. International Conference ICAE-2015 – Applied Ecology: Problems, Innovations. Shota Rustaveli National Science Foundation of Georgia. Coordinator

30.04.2015-30.04.2017. Modern methodology for the realization of the joint problem of coastal defense and hydropower. Shota Rustaveli National Science Foundation of Georgia. Hydrologist

22.07.2013-24.07.2016. Internatinal Conference Kolkheti Lowland Water Ecosystems – Protection and Efficient Use. Shota Rustaveli National Science Foundation of Georgia. Coordinator

25.04.2013-24.04.2013. Methodology for assessing the vulnerability of riverbanks to flood risk. Shota Rustaveli National Science Foundation of Georgia. GIS Specialist

Internship

Spain, 20 December, 2018 - 29 January, 2019. Research Institute of Water and Environmental Engineering of Polytechnic University of Valencia. International Education Center

The Netherlands, 18 July - 12 October, 2016. Geoscience and Civil Engineering Faculty of Delft Technological University. Shota Rustaveli National Science Foundation of Georgia

Spain, 4 February - 5 July, 2016. Research Institute of Water and Environmental Engineering of Polytechnic University of Valencia. Erasmus+

26 June – 21 July, 2022 – Institute for Water Education IHE-Delft, The Netherlands.

Other Activities

2017-present. European Geosciences Union – EGU. Member

2018. National Atlas of Georgia. Collective Monography. Justus Liebig University Giessen, Germany. Technical editor