

# Larisa Shengelia

## Personal information

ID Number: 01009010361

Full name: Larisa Shengelia

Gender: Female

Date of birth: 01.04.1947

Citizenship: საქართველო (Georgia)

## Contact Details

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Call number: 555958524

Country: საქართველო (Georgia)

City: Tbilisi

Address: Pekin Avenue 25, Apartment 90

## Languages

Language	Writing	Reading	Speaking
English	B1	B1	B1
Russian	C2	C2	C2
ქართული (Georgian)	C2	C2	C2

## Education

### Academic degree

Academic Degree: Doctoral/PhD, Ed.D or other equivalent

Year obtained: 01.06.1988

### Education

Academic Degree	Name of the Institution	Country	Major discipline	Start year	End year
Doctoral/PhD, Ed.D or other equivalent	Postgraduate Course of Hydrometeorological Centre, Moscow, Russia	Russian Federation	Satellite meteorology	1974	1977
Doctoral/PhD, Ed.D or other equivalent	Iv. Javakhishvili Tbilisi state University	საქართველო (Georgia)	Geophysics	1965	1970

### Trainings / Seminars / Training courses

Training / Seminar / The theme of the course	Organization name	Start year	End year
Training Satellite remote sensing	Hydrometeorological Centre, Russia, Moscow	1974	1974

## Projects

### Ongoing projects

Project title	Position	Project head	Start Date	Donor
Atlas of the current state of the glaciers of Georgia	Project Manager	Larisa Shengelia	01.01.2023	Georgian Technical University
Research on the glacier degradation in Georgia over recent decades and creation of the "Electronic Atlas of Georgian Glaciers"	Project Cordinator	George Kordzakhia	21.03.2022	Shota Rustaveli National Science Foundation

### Completed projects

Project title	Position	Project head	Start Date	End Date	Donor
The Nature of Atmospheric Air Microcirculation Processes and the Study of Climatic - Ecological Features of Certain Regions of Georgia	Executor	Zurab khvedelidze	01.01.2020	31.12.2022	Georgian Technical university
Study of Georgian Glaciers Degradation and Forecast of their Melting Due to Modern Climate Change, IHM-20-43-GTU- CD-5702	Project Manager	Larisa Shengelia	01.01.2018	31.12.2020	Georgian Technical University
Research of the Georgian Glaciers Evolution Based on the Satellite Remote Sensing Methodology and Field Glaciological Observations Data on the Background of the Modern Climate Change, IHM-17-35-CO-3692	Project leader	larisa Shengelia	01.01.2015	31.12.2017	Georgian Technical university
Research of the Caucasian glaciers in Georgia based on satellite remote sensing, #FR/586/9-110/13	Project leader	larisa Shengelia	31.03.2014	31.03.2017	Shota Rustaveli National Science Foundation
Study of the Area of Separate Glaciers of the Caucasus Using Satellite data on the Background of Contemporary Climate Change, #SC/3/9-101/12	Project leader	Larisa Shengelia	20.01.2013	20.04.2013	Shota Rustaveli National Science Foundation
Assessment of the impact of Climate Change on Caucasian glaciers on the basis of the remote sensing technologies	Project leader	Larisa Shengelia	01.01.2012	01.01.2014	Georgian Technical university
Creation of the System of Implementation of Satellite Information for the Provision of the Safety of Marine Transportation and Ecology in Georgia, #GNSF/ST/5- 432	Project leader	Larisa Shengelia	01.03.2009	01.03.2011	Shota Rustaveli National Science Foundation

### Scientific Fields (2018-2020)

#### Main Field

Field: 1. Natural sciences

Sub-Field: 1.5 Earth and related environmental sciences

Subject area: 1.5.11 Oceanography, Hydrology, Water resources

#### Additional Field (1)

Field: 7. Georgian studies

Sub-Field: 7.1 Natural Studies

Subject area: 7.1.5 Earth and related environmental sciences

### Scientific Fields (2021-2024)

#### Main Field

Field: 1. Physical Sciences and Engineering

Sub-Field: 1.10 Earth System Science

Subject area: 1.10.14 Earth observations from space/remote sensing

#### Additional Field (1)

Field: 1. Physical Sciences and Engineering

Sub-Field: 1.10 Earth System Science

Subject area: 1.10.18 Cryosphere, dynamics of snow and ice cover, sea ice, permafrosts and ice sheets

**Additional Field (2)**

Field: 1. Physical Sciences and Engineering

Sub-Field: 1.10 Earth System Science

Subject area: 1.10.3 Climatology and climate change

**Employment History****Current place(s) of employment**

Workplace	Name of the work department	Position	Main responsibilities	Start Date
Georgian Technical University	Institute of Hydrometeorology	Chief Researcher	Project leader	01.01.2021

**Work experience**

Company/Institution	Name of the department	Position	Main responsibilities	Start Date	End Date
Georgian Technical University	Institute of hydrometeorology	Chief Researcher	Project leader	01.01.2023	01.01.2027
Georgian Technical University	Institute of hydrometeorology	Chief Researcher	Project leader	01.01.2021	01.01.2023
Georgian Technical University	Institute of hydrometeorology	Chief Researcher	Project leader	01.01.2018	01.01.2021
Georgian Technical University	Institute of hydrometeorology	Chief Researcher	Project leader	01.01.2015	01.01.2018
Georgian Technical University	Institute of hydrometeorology	Chief Researcher	Project leader	01.01.2012	01.01.2015
Georgian Technical University	Institute of Hydrometeorology	Senior Research Officer	Project leader	01.01.2011	01.01.2012
Institute of Hydrometeorology	Weather Forecasting Sector	Senior Research Officer	Main Implementer	01.01.2004	01.01.2011
Institute of Hydrometeorology	Weather Forecasting Sector	Leading Scientific Researcher	Main Implementer	01.01.1992	01.01.2004
Institute of Hydrometeorology	Physics of Clouds Sector	Senior Research Officer	Main Implementer	01.01.1988	01.01.1992
Institute of Hydrometeorology	Weather Forecasting Sector	Research Officer	Implementer	01.01.1977	01.01.1988
Institute of Hydrometeorology	Weather Forecasting Sector	Junior Researcher	Implementer	01.01.1970	01.01.1977

**Scientific Productivity****Article / Monograph / Manual**

Type	Authors	Publication title	Source title	Year
Monograph	G. Kordzakhia, L. Shemgelia, G. Tvauri, G. Dumbadze	Morphology and Exposure Studies in the Autonomous Republic of Abkhazia (West Georgia) on the Background of Modern Climate Change	3 RD INTERNATIONAL CONGRESS ON ENGINEERING AND LIFE SCIENCE PROCEEDINGS BOOK 20-22 September 2023, Trabzon/TÜRKIYE Karadeniz Technical University, Publisher: Prensip Publishing, pp. 51-58. ISBN: 978-625-94141-0-2	2023
Monograph	G. Kordzakhia, L. Shemgelia, G. Tvauri, M. Dzadzamia, G. Guliashvili, S. Beridze.	STUDY OF LARGE GLACIER RETREAT IN RIVERS ENGURI AND RIONI BASINS	WATER IN A CHANGING ENVIRO. Interdisciplinary Approach in Current Hydrological Research. 30th POSTER DAY, International Conference, 08 November 2023, IH SAS, Bratislava, Slovakia, E-Book, pp. 1-7. ISBN:978-80- 89139-53-8 DOI: 10.2478/ahr-2021-0006	2023
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia, G. Guliashvili, S. Beridze	RETREAT IN RIVERS ENGURI AND RIONI BASINS DUE TO CURRENT CLIMAT CHANGE USING SATELLITE REMOTE SENSING	SCIENCE AND TECHNOLOGIES SCIENTIFIC REVIEWED MAGAZINE, Publishing House "Technical University", 2023, №2 (742), pp. 19-26. ISSN 0130-7061, Index 76127. DOI: <a href="http://doi.org/10.36073/0130-7061">http://doi.org/10.36073/0130-7061</a>	2023

Type	Authors	Publication title	Source title	Year
Article	G. Kordzakhia, L. Shengelia, G. Tvauri, M. Dzadzamia, G. Guliashvili, S. Beridze	Research of Abkhazian glacier retreat in the context of ongoing climate change using satellite remote sensing	INSTITUTE OF HYDROMETEOROLOGY OF THE GEORGIAN TECHNICAL UNIVERSITY, SCIENTIFIC REVIEWED PROCEEDINGS OF THE INSTITUTE OF HYDROMETEOROLOGY OF THE GTU, 2023, V. 133, pp. 38-43. ISSN 1512- 0902, doi.org/10.36073/1512-0902-2023-133-38-43	2023
Article	G. Kordzakhia, L. Shengelia, G. Tvauri, M. Dzadzamia, G. Guliashvili, S. Beridze	Research of Abkhazian glacier retreat in the context of ongoing climate change using satellite remote sensing	INSTITUTE OF HYDROMETEOROLOGY OF THE GEORGIAN TECHNICAL UNIVERSITY, SCIENTIFIC REVIEWED PROCEEDINGS OF THE INSTITUTE OF HYDROMETEOROLOGY OF THE GTU, 2023, V. 133, pp. 38-43. ISSN 1512- 0902, doi.org/10.36073/1512-0902-2023-133-38-43	2023
Article	G. Kordzakhia, L. Shengelia, G. Tvauri, M. Dzadzamia, G. Guliashvili	Study of Large Glacier Shkhara Degradation from Enguri River Glacial Basin Using Satellite Information	International Scientific Conference “Modern Problems of Ecology” PROCEEDING, Kutaisi, Gelati Academy, 2023, Vol. IX, pp. 86–93. ISSN 1512-1976	2023
Monograph	G. Kordzakhia, L. Shengelia, G. Tvauri	Impact of Climate Change on Glaciers of the Inguri River Basin (Georgia)	Proceeding of WRFER International Conference, Barcelona, Spain, 23-24 september 2023, WRFER (WORLD RESEARCH FORUM for ENGINEERS AND RESEARCHERS) International Conference. Barcelona, Spain, pp. 1–4. ISBN: 978-93-90150-28-1	2023
Monograph	L.D. Shengelia, G.I. Kordzakhia, G.A. Tvauri, M.S. Dzadzamia	GLACIERS MELTING IN EAST GEORGIA DUE TO THE IMPACT OF CURRENT CLIMATE CHANGE.	LXXV Gertsensovsky readings. Geography: development of science and education. Intern. scientific and practical conference on April 20–23, 2022 (to the 225th anniversary of Herzen University): collection of scientific articles in 2 vol. Part I / by ed. D. A. Subetto, A. N. Parantina. ISBN 978-5-8064-3219-4 (1 том)— St. Petersburg: Publ. house of Herzen State Pedagogical University of Russia, 2022. — 258 p (pp. 115-120).	2022
Monograph	Kordzakhia, G., Shengelia, L., Tvauri, M. Dzadzamia, G., Guliashvili, G., Beridze, S.	GLACIAL BASINS DEGRADATION DYNAMICS RESEARCH IN THE AUTONOMOUS REPUBLIC OF ABKHAZIA.	In: Vitková, J., Botyanszká, L. (eds.), 2022. Interdisciplinary Approach in Current Hydrological Research. 29th POSTER DAY, International Conference, 09 -17 November 2022. ISBN: 978- 80-89139-53-8, Bratislava, IH SAS, E-Book, p. 234.	2022
Monograph	Shengelia L., Guliashvili G., Beridze S., Kordzakhia G., Tvauri G.	RESEARCH OF SNOWFIELDS EXISTING IN THE TERRITORY OF THE AUTONOMOUS REPUBLIC OF ABKHAZIA IN THE LAST DECADE UNDER THE IMPACT OF THE CURRENT CLIMATE CHANGE BASED ON SATELLITE REMOTE SENSING.	INTERNATIONAL CONFERENCE OF YOUNG SCIENTISTS Modern Problems of Earth Sciences. ISBN 978-9941-36-044-2, Tbilisi, Georgia, November 21-22, 2022, Proceedings. Publish House of Iv. Javakhishvili Tbilisi State University, 2022, pp. 136-139.	2022
Article	George Kordzakhia, Larisa Shengelia, Genadi Tvauri, Murman Dzadzamia	East Georgia Glacial Basins Degradation Dynamics Under the Impact of Current Climate Change.	BULLETIN OF THE GEORGIAN NATIONAL ACADEMY OF SCIENCES, 2022, vol. 16, no. 1, 2022, ISSN 0132 – 1447, Tbilisi, Georgia, pp. 32-38.	2022
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia.	RESEARCH OF THE RIVERS ASSA AND ARGUN GLACIAL BASINS DEGRADATION DYNAMICS ON THE BACKGROUND OF MODERN .	„Science and Technologies” Scientific Reviewed Magazine, Publishing House „Technical University“, ISSN 0130-7061, Tbilisi, Georgia, №1(738), 2022, pp. 7–15.	2022
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, G. Guliashvili, S. Beridze	The results of satellite remote observation on the morphology and exposure of glaciers in the Autonomous Republic of Abkhazia in the last decade.	„Science and Technologies” Scientific Reviewed Magazine, Publishing House „Technical University“, ISSN 0130-7061, Tbilisi, Georgia, №3(400), 2022, pp. 18–28.	2022

Type	Authors	Publication title	Source title	Year
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia.	Dynamics of Degradation of Glaciers in Liakhvi and Aragvi Basins Against the Background of Current Climate Change.	PRESSING PROBLEMS IN HYDROMETEOROLOGY AND ECOLOGY DEDICATED TO THE 100TH ANNIVERSARY OF THE GEORGIAN TECHNICAL UNIVERSITY, REVIEWED PROCEEDINGS OF THE INSTITUTE OF HYDROMETEOROLOGY OF THE GEORGIAN TECHNICAL UNIVERSITY, Publisher– Institute of Hydrometeorology, ISSN 1512-0902, Tbilisi, Georgia, vol.132, pp. 19-27.	2022
Article	Kordzakhia, G., Shengelia, L., Tvauri, M. Dzadzamia, G., Guliashvili, G., Beridze, S.	COMPLEX STUDY OF THE CURRENT STATE OF GLACIERS IN THE OCCUPIED TERRITORY OF GEORGIA (AUTONOMOUS REPUBLIC OF ABKHAZIA) USING SATELLITE REMOTE SENSING.	International Scientific Conference „Modern Problems of Ecology“, Proceedings, Volume VIII, ISSN 1512-1976, Batumi, Georgia, October 16-17, 2022, pp. 64-70.	2022
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia.	Climate Change Impact on the Glaciers of the Rioni River Basin (Georgia).	Acta Horticulturae et Regiotecturae – Special Issue. DOI: 10.2478/ahr-2020-0019. Nitra, Slovak Universitas Agriculturae Nitriae, pp. 30–33.	2021
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia.	Degradation dynamics of the Pirikiti Alazani river basin glaciers on the background of current climate change	„Pressing Problems in Hydrometeorology and Ecology“, Transactions of the Institute of Hydrometeorology at the Georgian Technical University, Georgia, Tbilisi. ISSN 1512-0902, 2021, v. 131, pp. 24-31	2021
Monograph	L.D. Shengelia, G.I. Kordzakhia, G.A. Tvauri, M.S. Dzadzamia.	THREE FACTORS CHARACTERIZING GLACIERS DEGRADATION IN GEORGIA.	Geography: development of science and education. Collection of articles on materials of the scientific and practical conference LXXIV Gertsenovskiy readings, St. Petersburg, RSPU of A.I. Herzen, on April 21-23, 2021, part I, pp. 201 2011.	2021
Monograph	G. Kordzakhia, L. Shengelia, G. Tvauri, M. Dzadzamia.	Degradation of glaciers of basin of the river Pirikiti Alazani (Georgia) due to climate change.	Reducing the risk of negative climate change impacts in the landscape, ENVIRO 2021, 25th International scientific conference, 3rd–4th June 2021. Proceedings of abstracts. Nitra, Slovak Universitas Agriculturae, pp. 27–30. ISBN 978-80-552-2408-4 DOI: <a href="https://doi.org/10.15414/2021.9788055224084">https://doi.org/10.15414/2021.9788055224084</a>	2021
Monograph	G. Kordzakhia, L. Shengelia, G. Tvauri, M. Dzadzamia.	GLACIERS DEGRADATION DYNAMICS OF GLACIAL BASINS OF RIVERS ASSA AND ARGHUNI ON THE BACKGROUND OF CURRENT CLIMATE CHANGE.	In: Botyanszka, L., Vitkova, J. (eds.), 2021. Hydrological Processes in the Soil–Plant–Atmosphere System. IH SAS, E-Book, Bratislava, p. 317. pp. 256-263 ISBN: 978-80-89139-50-7	2021
Monograph	Kordzakhia G., Shengelia L., Tvauri G., Dzadzamia M.	River Terek Glacial Basin Degradation Dynamics on the Background of Current Climate Change.	International Scientific Conference „Natural Disasters in the 21st Century: Monitoring, Prevention, Mitigation“, December 20-22, 2021, Proceedings, TSU, Tbilisi, Georgia, pp. 202–205. ISBN 978-9941-491-52-8	2021
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia.	CORRECTION OF DATA ON GEORGIAN GLACIERS AREA IN THE CATALOG OF GLACIERS OF THE USSR	"SCIENCE AND TECHNOLOGIES", SCIENTIFIC REVIEWED MAGAZINE #1(733), pp. 9–15. ISSN 0130-7061 Index 76127	2020
Monograph	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia.	CLIMATE CHANGE IMPACT ON THE GLACIERS OF THE INGURI RIVER BASIN (GEORGIA)	"Geography: Development of Science and Education", Collective monograph on the materials of Scientific-Practical Conference LXXIII Herzen readings 22-25 April 2020	2020
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia.	Degradation of Georgia's Glacial Basins Due to Current Climate Change	„Pressing Problems in Hydrometeorology and Ecology“ Transactions of the Institute of Hydrometeorology at the Georgian Technical University. ISSN 1512-0902, vol.129, pp.34-40.	2020
Article	G. Kordzakhia, L. Shengelia, G. Tvauri, M. Dzadzamia.	Current Climate Change Impact on the Mtkvari (Kura) River Basin Glaciers Degradation	Bulletin of the Georgian National Academy of Sciences. ISSN – 0132 – 1447, Georgia, Tb., Vol. 14, #1, pp. 56-63.	2020
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia.	NFLUENCE OF THE CURRENT CLIMATE CHANGE ON THE DEGRADATION OF TEREK RIVER BASIN GLACIERS.	"SCIENCE AND TECHNOLOGIES", SCIENTIFIC REVIEWED MAGAZINE, ISSN 0130-7061 Index 76127, #2 (734), pp. 9–15.	2020

Type	Authors	Publication title	Source title	Year
Article	G. I. Kordzakhia, L. D. Shengelia, G. A. Tvauri, M. Sh. Dzadzamia	The Climate Change impact on the Glaciers of Georgia	Word Science, № 4(44) Vol.1, April 2019, pp. 29–32. Publisher – RS Global Sp. z O.O, Scientific Educational Center Warsaw, Poland	2019
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia.	RETREAT OF SOME LARGE GLACIERS OF GEORGIA AND DETERMINATION OF THEIR EXPECTED FULL MELTING DATA DUE TO CURRENT CLIMATE CHANGE	"SCIENCE AND TECHNOLOGIES", SCIENTIFIC REVIEWED MAGAZINE #2 (731), pp. 9–26. ISSN 0130-7061 Index 76127	2019
Monograph	L.D. Shengelia, G.I. Kordzakhia, G.A. Tvauri, M.S. Dzadzamia	Impact of the Current Climate Change on the Large Claciers of Georgia	Geography: Development of Science and Education, Collective monograph on the materials of International Scientific-Practical Conference LXXI Herzen reading 18 – 21 April 2019,vol. I, pp. 218–226. (in Russian), Publishing House „Herzen State Pedagogical University of Russia“, Russia, St.-Petersburg.	2019
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, V. Tsomaia, M. Dzadzamia	Study of climate change impact on small glaciers of Georgia based on remote sensing data	Transactions of the Institute of Hydrometeorology of the Georgian Technical University , VOL.125, pp. 83-89, 2018 (2019)	2019
Article	Shengelia L., Kordzakhia G., Tvauri G., Dzadzamia M.	Determination of the Impact of Current Climate Change on Some Large Glacier of Georgia and Investigation of their Complete Melting Dates.	Scientific Reviewed Proceedings of the IHM, GTU. vol.127, pp. 20-24. ISSN 1512-0902	2019
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia	Results of the Investigation of Small Glaciers of the Western Georgia on the Background of Modern Climate.	„Science and Technologies” Scientific Reviewed Magazine (in Georgian), 1 (729), pp. 14-21, Publishing House „Technical University“, Georgia, Tbilisi.	2018
Monograph	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia	Results of the Research of Small Glaciers of Georgia Against the Background of Change of the Modern Climate.	Geography: Development of Science and Education, Collective monograph on the materials of International Scientific-Practical Conference LXXI Herzen reading 18 – 21April 2018. Publishing House „Herzen State Pedagogical University of Russia“, St.-Petersburg, Russia, vol. I, pp. 206-212.	2018
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia.	Results of the study of the modern conditions of the river Tviberi reservoir glaciers based on the remote sensing technologies (high resolution satellites, aerial photos).	„Pressing Problems in Hydrometeorology and Ecology“ Transactions of the Institute of Hydrometeorology at the Georgian Technical University, v. 124, Pages: 97-106, Institute of Hydrometeorology at the Georgian Technical University, Tbilisi, Georgia.	2017
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia.	Determination of the firn line elevation of the mountain glaciers based on satellite remote sensing data using of Hefer method.	„Pressing Problems in Hydrometeorology and Ecology“ Transactions of the Institute of Hydrometeorology at the Georgian Technical University, v. 123, Pages: 77-82, Institute of Hydrometeorology at the Georgian Technical University, Georgia, Tbilisi.	2016
Monograph	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia	Determination of the firn line of mountain glaciers according to satellite remote sensing,	Geography: Development of Science and Education, Collective monograph on the materials of International Scientific-Practical Conference LXIX Herzen reading 21-23 April 2016, pp. 199-205 (in Russian), Publishing House „Herzen State Pedagogical University of Russia“, Russia, St.-Petersburg.	2016
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia.	Negative trends of glaciers changes in Georgia on the background of modern climate change.	„Science and Technologies” Scientific Reviewed Magazine (in Georgian), #3 (723), pp. 29-35, Publishing House „Technical University“, Georgia, Tbilisi.	2016
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia.	Impact of Climate Change on small glaciers of East Georgia.	„Science and Technologies” Scientific Reviewed Magazine (in Georgian), #1 (721), pp. 9-14, Publishing House „Technical University“, Georgia, Tbilisi.	2016

Type	Authors	Publication title	Source title	Year
Article	G. Kordzakhia, L. Shengelia, G. Tvauri, M. Dzadzamia.	Satellite Earth Observations Processing to Determine Main Characteristics of Small Glaciers of East Georgia.	The 4th International Geography Symposium Book of Proceedings, 23-26 May, 2016, Kemer-Antalya, Turkey, pp. 505-514.	2016
Article	G. Kordzakhia, L. Shengelia, G. Tvauri, M. Dzadzamia.	Research of Glaciers Variation Dynamics in East Georgia under the Impact of Modern Climate Change.	Proceedings of the Fourth Plenary Conference and Field Trips of UNESCO-IUGS-IGCP 610 project „From the Caspian to Mediterranean: Environmental Change and Human Response during the Quaternary“ (2013-2017), 2-9 October, 2016, pp. 96-100, Printed in Georgia, Georgian National Academy of Sciences, Tbilisi, Georgia.	2016
Article	G. Kordzakhia, L. Shengelia, G. Tvauri, M. Dzadzamia.	Impact of Modern Climate Change on Glaciers in East Georgia,	Bulletin of the Georgian National Academy of Sciences, Vol. 10, #4, pp. 56-63, Georgian National Academy of Sciences, Tbilisi, Georgia.	2016
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, V. Tsomaia, M. Dzadzamia.	Results of the investigation of the small glaciers Eastern Georgia based on satellite remote sensing.	„Pressing Problems in Hydrometeorology and Ecoogy“ Transactions of the Institute of Hydrometeorology at the Georgian Technical University. V. 121, Pages: 104-111, Institute of Hydrometeorology at the Georgian Technical University, Georgia, Tbilisi.	2015
Article	G. Kordzakhia, L. Shengelia, G. Tvauri, V. Tsomaia M. Dzadzamia.	Satellite remote sensing outputs of the certain glaciers in the territory of East Georgia.	The Egyptian Journal of Remote Sensing and Space Sciences - Elsevier, Volume 18, Issue 1, Supplement 1, October 2015, Pages S1-S7.	2015
Monograph	L.D.Shengelia, G.I. Kordzakhia, G.A. Tvauri.	Methodology and outputs of the some Georgian glaciers research based on remote sensing.	Geography: Development of Science and Education, Collective monograph on the materials of International Scientific-Practical Conference LXVIII Herzen reading 22-25 April 2015 devoted to the 70 anniversary of UNESCO, pp. 117-124 (in Russian). Printing house „Herzen State Pedagogical University of Russia“, Russia, St.-Petersburg, Pages: 117-124.	2015
Article	G. Kordzakhia, L. Shengelia, G. Tvauri, M. Dzadzamia.	Research of Devdoraki Glacier Based on Satellite Remote Sensing Data and Devdoraki Glacier Falls in Historical Context.	American Journal of Environmental Protection, Volume 4, Issue 3-1, Pages: 14-21, American Journal of Environmental Protection, (Online).	2015
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, M. Dzadzamia.	RESEARCH OF EAST GEORGIAN SMALL GLACIERS ON THE BASES OF REMORE SENSING AND GIS TECHNOLOGIES	"SCIENCE AND TECHNOLOGIES", SCIENTIFIC REVIEWED MAGAZINE #2(719), pp. 9-18. ISSN 0130-7061 Index 76127, #2 (719), pp. 9-18.	2015
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, V. Tsomaia.	Results of the Investigation of the Suatisi Glaciers Based on Satellite Remote Sensing.	„Pressing Problems of Hydrometeorology and Ecology“ Transactions of the Institute of Hydrometeorology at the Georgian Technical University Vol. 120, pp. 52-56 (in Georgian) Institute of Hydrometeorology at the Georgian Technical University, Georgia, Tbilisi.	2014
Article	G. Kordzakhia, L. Shengelia, G. Tvauri.	Investigation of Caucasian Glaciers by Satellite Data.	International „Scientific-Technical Conference „Pressing Problems of Hydrometeorology and Ecology“ Dedicated to the 60th Anniversary of the Foundation of the Institute of Hydrometeorology, 28-30 May, 2013, Papers, Transactions of the Institute of Hydrometeorology at the Georgian Technical University, vol. 119, pp. 187-190, Institute of Hydrometeorology at the Georgian Technical University, Georgia, Tbilisi.	2013
Article	L. Shengelia, G. Tvauri, R. Chelidze, B. Cignadze, L. Meladze, N. Khvedelidze, N. Matskepladze, G. Beradze.	Study of the Area of Separate Glaciers of the Caucasus Using Satellite data on the Background of Contemporary Climate Change.	International „Scientific-Technical Conference „Pressing Problems of Hydrometeorology and Ecology“ Dedicated to the 60th Anniversary of the Foundation of the Institute of Hydrometeorology, 28-30 May, 2013, Papers, Transactions of the Institute of Hydrometeorology at the Georgian Technical University. vol. 119, pp. 198-201. (in Georgian). Institute of Hydrometeorology at the Georgian Technical University, Georgia, Tbilisi.	2013
Article	L. Shengelia, G. Kordzakhia, G. Tvauri, T. Davitashvili, N. Begalishvili.	Possibilities of the use of remote sensing technologies for the estimation of modern climate change impact on the Caucasus glaciers.	„Science and Technologies“ Scientific Reviewed Magazine (in Georgian), №4-6, pp. 25-30, Publishing House „Technical University“, Georgia, Tbilisi,	2012

Type	Authors	Publication title	Source title	Year
Monograph	G. Kordzakhia, L. Shengelia, G. Tvauri.	The Use of Satellite Information for the Black Sea Surface Temperature Determination	Publishing House, „Universal“,102 p. (in Georgian), Georgia, Tbilisi,	2011

#### Scholarships and awards

Scholarships/awards name	Issuer	Year of Issue
Associate corresponding member	Georgian Academy of Ecological Sciences	2021
Order of honor	Georgian State Award	2013
Medal of honor	Georgian State Award	2003

#### Participation in scientific events

Scientific event name	Title of the presentation	Event venue	Year
WRFER International Conference. Barcelona, Spain, 23-24 september 2023	Impact of Climate Change on Glaciers of the Inguri River Basin (Georgia)	Barcelona, Spain	2023
INTERNATIONAL SCIENTIFIC CONFERENCE "Geophysical Processes in the Earth and its Envelopes", TSU, Tbilisi, Georgia, November 16-17, 2023	Comparison of Satellite Remote Sensing and Field Ground Observation Data for the Large Glaciers Retreat Study in Georgia	IVANE JAVAKHISHVILI TBILISI STATE UNIVERSITY, Tbilisi, Georgia.	2023
70-th May scientific session of the Institute of Hydrometeorology	Research of Abkhazian glacier retreat in the context of ongoing climate change using satellite remote sensing	Tbilisi, Georgia	2023
International Scientific Conference "Modern Problems of Ecology" 23-25 November	Study of glacier ice degradation of Enguri river basin using satellite information	Tbilisi, Georgia	2023
International Scientific Conference "Modern Problems of Ecology" 23-25 November	Study of Large Glacier Shkhara Degradation from Enguri River Glacial Basin Using Satellite Information	Kutaisi, Gelati Academy of Sciences, Georgia	2023
WATER IN A CHANGING ENVIRO. Interdisciplinary Approach in Current Hydrological Research. 30th POSTER DAY, International Conference, 08 November 2023, IH SAS, Bratislava, Slovakia.	STUDY OF LARGE GLACIER RETREAT IN RIVERS ENGURI AND RIONI BASINS	IH SAS, Bratislava, Slovakia.	2023
3RD INTERNATIONAL CONGRESS ON ENGINEERING AND LIFE SCIENCE PROCEEDINGS BOOK 20-22 September 2023, Trabzon/TÜRKİYE Karadeniz Technical University	Morphology and Exposure Studies in the Autonomous Republic of Abkhazia (West Georgia) on the Background of Modern Climate Change	Trabzon/TÜRKİYE Karadeniz Technical University.	2023
Agenda-EUMETSAT, Information day for Eastern Europe, Caucasus and Central Asia, 27-28 April 2023	Using satellite information to study the degradation of Georgian glaciers	Tbilisi, Georgia	2023
PRESSING PROBLEMS IN HYDROMETEOROLOGY AND ECOLOGY DEDICATED TO THE 100TH ANNIVERSARY OF THE GEORGIAN TECHNICAL UNIVERSITY, 27 MAY, 2022.	Dynamics of Degradation of Glaciers in Liakhvi and Aragvi Basins Against the Background of Current Climate Change.	Tbilisi, Georgia.	2022
29th POSTER DAY, International Conference, 09 -17 November 2022.	GLACIAL BASINS DEGRADATION DYNAMICS RESEARCH IN THE AUTONOMOUS REPUBLIC OF ABKHAZIA Interdisciplinary Approach in Current Hydrological Research. (Online).	Bratislava, Slovak Republic, Slovak Academy of Sciences, Institute of Hydrology (Online).	2022
International Conference of Young Scientists "Modern Problems of Earth Sciences". November 21- 22, 2022.	RESEARCH OF SNOWFIELDS EXISTING IN THE TERRITORY OF THE AUTONOMOUS REPUBLIC OF ABKHAZIA IN THE LAST DECADE UNDER THE IMPACT OF THE CURRENT CLIMATE CHANGE BASED ON SATELLITE REMOTE SENSING.	IVANE JAVAKHISHVILI TBILISI STATE UNIVERSITY, Tbilisi, Georgia.	2022
EMCEI 2022, 4th Euro-Mediterranean Conference for Environmental Integration 01-04 November 2022.	Georgian Glaciers Degradation over 50 Last Years Due to Current Climate Change.	SOUSSE, TUNISIA (Online).	2022

Scientific event name	Title of the presentation	Event venue	Year
International Scientific Conference „Modern Problems of Ecology“, 16-17 October, 2022.	COMPLEX STUDY OF THE CURRENT STATE OF GLACIERS IN THE OCCUPIED TERRITORY OF GEORGIA (AUTONOMOUS REPUBLIC OF ABKHAZIA) USING SATELLITE REMOTE SENSING.	Batumi, Georgia	2022
LXXV Gertsenovskiy readings. Geography: development of science and education. Intern. scientific and practical conference on April 20–23, 2022 (to the 225th anniversary of Herzen University). St. Petersburg (Online)	GLACIERS MELTING IN EAST GEORGIA DUE TO THE IMPACT OF CURRENT CLIMATE CHANGE.	St. Petersburg, Russia.	2022
Annual International Scientific and Practical Conference LXXIV Herzen Readings	THREE FACTORS CHARACTERIZING GLACIERS DEGRADATION IN GEORGIA	Russian State Pedagogical University of A.I. Herzen, Russia, St. Petersburg.	2021
May 28, 2021. May 68th Scientific Session. Institute of Hydrometeorology of Georgian	Degradation dynamics of the Pirikiti Alazani river basin glaciers on the background of current climate change.	Tbilisi, Georgia.	2021
June 5, 2021. Scientific Seminar of the Georgian Academy of Ecological Sciences and the Congress of the Academy.	Reversal of some large glaciers in Georgia due to current climate change and estimated dates of their complete melting.	Tbilisi, Georgia	2021
TAIEX Workshop on Glaciers Degradation under Climate Change.	The aim is to enhance capacity of Georgia in research of Glaciers Degradation.	Tbilisi, Georgia	2021
November 3-12, 2021 26th Conference of the Parties to the Framework Convention on Climate Change.	CURRENT CLIMATE CHANGE IMPACT ON GLACIERS DEGRADATION IN GEORGIA.	Glasgow (United Kingdom).	2021
ENVIRO 2021 Internacional scientific conference 3rd–4th June 2021 Nitra, Slovakia (on-line through Microsoft Teams)	Degradation of glaciers of basin of the river Pirikiti Alazani (Georgia) due to climate change.	Nitra, Slovakia.	2021
10.11.2021 Institute of Hydrology of the Slovak Academy of Sciences 28th International Poster Day „Transport of Water, Chemicals and Energy in the Soil-Plant-Atmosphere System	GLACIERS DEGRADATION DYNAMICS OF GLACIAL BASINS OF RIVERS ASSA AND ARGHUNI ON THE BACKGROUND OF CURRENT CLIMATE CHANGE.	Bratislava, Slovakia.	2021
10.11.2021 Institute of Hydrology of the Slovak Academy of Sciences 28th International Poster Day „Transport of Water, Chemicals and Energy in the Soil-Plant-Atmosphere System.	CLIMATE CHANGE IMPACT ON GEORGIAN GLACIERS.	Bratislava, Slovakia	2021
December 20-22, 2021 International Scientific Conference „Natural Disasters in the 21st Century: Monitoring, Prevention, Mitigation“	River Terek Glacial Basin Degradation Dynamics on the Background of Current Climate Change. Kordzakhia G., Shengelia L., Tvauri G., Dzadzamia M.	Tbilisi, Georgia.	2021
19.12.2021 Alexander Javakhishvili Geographical Society of Georgia and Ivane Javakhishvili Tbilisi State University, Scientific Conference: "Modern Problems of Geography"	Impact of climate change on Georgian Glaciers.	Tbilisi, Georgia	2021
Final Session of the UNDP / GEF and the Government of Georgia Project “Preparation of the Fourth National Communication of Georgia to the Framework Convention on Climate Change and the Second Biennial Updated Report”.	Impact of climate change on Georgian glaciers	Hotel Holiday Inn, Georgia, Tbilisi.	2020
Annual International Scientific and Practical Conference LXXIII Herzen Readings of Russian State Pedagogical University of A.I. Herzen	CLIMATE CHANGE IMPACT ON THE GLACIERS OF THE INGURI RIVER BASIN (GEORGIA)	Russian State Pedagogical University of A.I. Herzen, Russia, St. Petersburg.	2020
May 67th Scientific Session of the Institute of Hydrometeorology at the Georgian Technical University	Degradation of Georgia's Glacial Basins Due to Current Climate Change.	Georgian technical university, institute of hydrometeorology, Tbilisi, Georgia.	2020
29th POSTER DAY, International Conference, 09 -17 November 2022.	GLACIAL BASINS DEGRADATION DYNAMICS RESEARCH IN THE AUTONOMOUS REPUBLIC OF ABKHAZIA Interdisciplinary Approach in Current Hydrological Research. (Online).	Bratislava, Slovak Republic, Slovak Academy of Sciences, Institute of Hydrology (Online).	2020

Scientific event name	Title of the presentation	Event venue	Year
Session of the Institute of Hydrometeorology at the Georgian Technical University.	Study of Georgian Glaciers Degradation and Forecast of their Melting Due to Modern Climate Change	Georgian technical university, institute of hydrometeorology, Tbilisi, Georgia.	2020
Institute of Hydrometeorology at the Georgian Technical University, 66th May Scientific Session, 2019, 24 May	Retreat of Some Large Claciers of Georgia and Determination of Their Expected Full Melting Date Due to Current Climate Change	Georgia, Tbilisi.	2019
WMO High Mountains World Summit	Research Results of High Mountain Glaciers Degradation in Georgia for the Last 50 Years.	WMO, Switzerland, Geneva.	2019
International Scientific-Technical Conference Environmental protection and sustainable development	Current Climate Change Impact on the River. Mtkvari Basin Glaciers Degradation	Georgian Technical University, Georgia, Tbilisi.	2019
International Scientific-Practical Conference LXXI Herzen reading 18 – 21 April 2019	Impact of the Current Climate Change on the Large Glaciers of Georgia	Russia, St.-Petersburg.	2019
Institute of Hydrometeorology at the Georgian Technical University, 65th May Scientific Session, 2018, 25 May.	Study of climate change impact on small glaciers of Georgia based on remote sensing data.	The Georgian Technical University.	2018
International Scientific and Practical Conference LXXI Herzen Readings of Russian State Pedagogical University of A.I. Herzen	RESULTS OF THE RESEARCH OF SMALL GLACIERS OF GEORGIA AGAINST THE BACKGROUND OF CHANGE OF THE MODERN CLIMATE	Russian State Pedagogical University of A.I. Herzen, Russia, St. Petersburg.	2018
Scientific Seminar of the Institute of Hydrometeorology at the Georgian Technical University, Demonstration day, 2017, 15 March.	The Shota Rustaveli National Research Fund FR/586/9-11 „Research of the Caucasian glaciers in Georgia based on satellite remote sensing“, Final repor.	The Georgian Technical University, Georgia, Tbilisi.	2017
Institute of Hydrometeorology at the Georgian Technical University, 64th May Scientific Session, 2017, 24 May.	Results of the study of the modern conditions of the river Tviberi reservoir glaciers based on the remote sensing technologies (high resolution satellites, aerial photos).	The Georgian Technical University, Georgia, Tbilisi.	2017
Scientific Seminar of the Institute of Hydrometeorology at the Georgian Technical University, 2017, 7 Desember.	Research of Georgian Glaciers Evolution on the Background of Modern Climate Change Based on Satellite Remote Methodologies and the Data of Ground Observations, Final Report (2015-2017).	Institute of Hydrometeorology, Geogia, Tbilisi.	2017
Research of Georgian Glaciers Evolution on the Background of Modern Climate Change Based on Satellite Remote Methodologies and the Data of Ground Observations, Final Report (2015-2017), 2017, 22 December.	Research of Georgian Glaciers Evolution on the Background of Modern Climate Change Based on Satellite Remote Methodologies and the Data of Ground Observations, Final Report (2015-2017).	The Georgian Technical University, Georgia, Tbilisi.	2017
GEOMED 2016, The 4th International Geography Symposium, 2016, 23-26 May..	Satellite Earth Observations Processing to Determine Main Characteristics of Small Glaciers of East Georgia.	Kemer-Antalya, Turkey.	2016
Workshop on the Institutional Cooperation between Norwegian Water Resources (NVE) and the Ministry of Energy of Georgia, 2016, 21-24 June.	Glacier Retreat Dynamics on the Basis of Satellite Earth Observations.	Georgia, Kazbegi.	2016
Fourth Plenary Conference and Field Trips of UNESCO–IUGS–IGCP 610 project „From the Caspian to Mediterranean: Environmental Change and Human Response during the Quaternary“ (2013-2017), 2016, 2-9 October, 2016, 2-9 October.	Research of Glaciers Variation Dynamics in East Georgia Under the Impact of Modern Climate Change.	Georgian National Academy of Sciences, Georgia, Tbilisi.	2016
Institute of Hydrometeorology at the Georgian Technical University, 63th May Scientific Session 2016, 20 May.	Determination of the firm line elevation of mountain glaciers based on satellite remote sensing data using of Hefer method	Institute of Hydrometeorology, Geogia, Tbilisi.	2016
EUMETSAT Workshop – Information day for Eastern European and Caucasus Countries, 2016, 16-20 May.	Satellite remote sensing outputs of the certain glaciers in the territory of Georgia,	Georgia, Tbilisi	2016
International Scientific-Practical Conference „Geography: Development of Science and Education“, LXIX Herzen reading, 2016, 21-23 April.	Determination of the firm line of mountrain glaciers according to satellite remote sensing,	Herzen State Pedagogical University of Russia, St.-Petersburg.	2016

Scientific event name	Title of the presentation	Event venue	Year
Scientific Seminar of the Institute of Hydrometeorology at the Georgian Technical University, Demonstration day, 2016, 8 April.	The Shota Rustaveli National Research Fund FR/586/9-11 „Research of the Caucasian glaciers in Georgia based on satellite remote sensing“, report of the second year.	The Georgian Technical University.	2016
Scientific Seminar of the Institute of Hydrometeorology at the Georgian Technical University, 2016, 4 March.	The impact of climate change in the East of small glaciers.	Institute of Hydrometeorology.	2016
EUMETSAT Workshop – Information day, 2015, 22-23 April.	EUMETCast current status and future plans in NMHS of Georgia.	Georgia, Kazbegi.	2015
Scientific Seminar of the Institute of Hydrometeorology at the Georgian Technical University, Demonstration day, 2015, 27 March	The Shota Rustaveli National Research Fund FR/586/9-11 „Research of the Caucasian glaciers in Georgia based on satellite remote sensing“, report of the first year.	The Georgian Technical University.	2015
ICAIE2015–International Conference “Applied ecology: Problems, Innovations”, 2015, 7-10 May,	Research of Devdoraki Glacier Based on Satellite Remote Sensing Data and Devdoraki Glacier Falls in Historical Context.	Ivane Javakhishvili Tbilisi State University, Tbilisi – Batumi.	2015
Institute of Hydrometeorology at the Georgian Technical University, 62th May Scientific Session, 2015, 28 May.	Results of the investigation of the small glaciers Eastern Georgia based on satellite remote sensing,	The Georgian Technical University.	2015
International Scientific-Practical Conference „Geography: Development of Science and Education“, LVIII Herzen reading devoted to the 70 anniversary of UNESCO, 2015, 22-25 April.	Methodology and outputs of some Georgian glaciers research based on remote sensing,	Herzen State Pedagogical University of Russia, St.-Petersburg.	2015
Scientific session of the Institute of Hydrometeorology at the Georgian Technical University, 2014, 26 December.	Assessment of the Climate Change Impact on the Glaciers of the Caucasus Based on the Use of Remote Sensing Technologies, Final Report (2012-2014).	The Georgian Technical University.	2014
International Conference on Research and Innovation for Sustainable Soil Management, 2014, 27-29 November.	Satellite remote sensing outputs of certain glaciers in the territory of East Georgia.	Egypt, Hurghada.	2014
Institute of Hydrometeorology at the Georgian Technical University, 61th May Scientific Session, 2014, 30 May.	Results of the Investigation of the Suatsi Glaciers Based on Satellite Remote Sensing.	Institute of Hydrometeorology.	2014
International Conference “Marine Research Horizon 2020”, 2013, 17-22 September.	Application of Argo Drifter Data for Quality Control of SST received from Remote sensing.	Bulgaria, Varna.	2013
International „Scientific-Technical Conference „Pressing Problems of Hydrometeorology and Ecology“ Dedicated to the 60th Anniversary of the Foundation of the Institute of Hydrometeorology, 2013, 28-30 May.	Study of the Area of Separate Glaciers of the Caucasus Using Satellite data on the Background of Contemporary Climate Change.	The Georgian Technical University.	2013
International „Scientific-Technical Conference „Pressing Problems of Hydrometeorology and Ecology“ Dedicated to the 60th Anniversary of the Foundation of the Institute of Hydrometeorology, 2013, 28-30 May.	Investigation of Caucasian Glaciers by Satellite Data.	The Georgian Technical University.	2013
Scientific Seminar of the Institute of Hydrometeorology at the Georgian Technical University, Demonstration day, 2013, 25 April.	The Shota Rustaveli National Research Fund #SC /24/9-180/13 „Study of the Area of Separate Glaciers of the Caucasus Using Satellite data on the Background of Contemporary Climate Change“, The Final Report.	Vladimir Komarov Tbilisi № 199 Public School of Physics and Mathematics, Georgia, Tbilisi.	2013

### Productivity index

#	Citation index	h-index
Google scholar	96.90	6.00
Scopus	5.00	2.00
Web of science	5.00	2.00