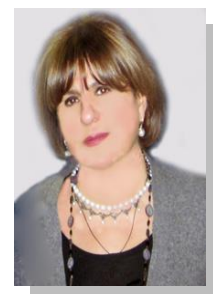


Curriculum Vitae



LIA MATCHAVARIANI

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WORK EXPERIENCE

Dates & Name of employer	2012-present – Iv. Javakhishvili Tbilisi State University (TSU)
Occupation, position held	<i>Full Professor, Head of Soil Geography Chair</i> – Faculty of Exact & Natural Sciences
Dates & Name of employer	2006-2012 – Iv. Javakhishvili Tbilisi State University (TSU)
Occupation, position held	<i>Assoc. Professor</i> – Faculty of Exact & Natural Sciences, Geography Department
Dates & Name of employer	2005-2011 – Iv. Javakhishvili Tbilisi State University (TSU)
Occupation, position held	Faculty of Exact & Natural Sciences – <i>Senior Specialist at the office of Academic Process Management & Scientific Research</i>
Dates & Name of employer	2003-2005 – Iv. Javakhishvili Tbilisi State University (TSU)
Occupation, position held	<i>Vice-Dean</i> – Faculty of Geography
Dates & Name of employer	1998-2006 – Iv. Javakhishvili Tbilisi State University (TSU)
Occupation, position held	<i>Docent, Lecturer</i> – Chair of Geography of Georgia, Geography-Geology Faculty
Dates & Name of employer	1992-1998 – Iv. Javakhishvili Tbilisi State University (TSU)
Occupation, position held	<i>Docent, Lecturer</i> – Chair of Hydrology & Soil Science, Geography-Geology Faculty
Dates & Name of employer	1990-1992 – Iv. Javakhishvili Tbilisi State University (TSU)
Occupation, position held	<i>Teacher</i> – Chair of Hydrology, Soil Science, Geography, and Geology Faculty
Dates & Name of employer	1982-1990 – Tbilisi State University (TSU)
Occupation, position held	<i>Laboratory assistant</i> – Chair of Hydrology & Soil Science; Geography-Geology Faculty

EDUCATION

Dates & Name of organization	2006, Ivane Javakhishvili Tbilisi State University
Title of qualification awarded	Scientific Degree: Doctor of Sciences in Geography (Geo-ecology)
Dates & Name of organization	1989, GSAU, Tbilisi
Title of qualification awarded	Scientific Degree: Candidate of Agricultural Sciences / PhD (Soil Science)
Dates & Name of organization	1977-1982, Iv. Javakhishvili Tbilisi State University (TSU)
Title of qualification awarded	Diploma in Geography – Faculty of Geography & Geology

TRAININGS

Dates & Name of Organization	2023, SLU – Swedish University of Agricultural Sciences, Uppsala, SWEDEN
Title of training courses	ERASMUS+ (European Commission) – Academic staff training/supervising activities at SLU (exchange program)
Dates & Name of Organization	2014, UNESCO-IHE, Institute for Water Education, The NETHERLANDS
Title of training courses	Integrated Water Resources Management
Dates & Name of Organization	2009-2010, British Council
Title of training courses	Course of English for Professional Purposes
Dates & Name of Organization	2008-2009, Joint European Project (JEP), Brussels, BELGIUM
Title of training courses	TEMPUS (EU) – Application of the Tuning Approach in the Georgian Higher Education System
Dates & Name of Organization	2004, German-Georgian Project (KfW)
Title of training courses	Description & Estimation of Soils according to FAO-WRB Classification & German Standards. Cadaster & Land Registration – a component of Land Use
Dates & Name of Organization	2002, International Meteorological Training Center, Tel-Aviv, ISRAEL
Title of training courses	(MASHAV) International Postgraduate Course in Agrometeorology
Dates & Name of Organization	1997, GIS Lab., Philipps-Universität Marburg, GERMANY
Title of training courses	Training course in Geographical Information Systems & Remote Sensing

INTERNATIONAL SCIENTIFIC FORUMS

Date & Place of Event	2026, 22-24 Oct., Baku-Mingachevir, AZERBAIJAN
Name of the Event	The 8 th Eurasian Conference on Earthen Dam Cascading Risk and the ESRA South Caucasus Workshop
Date & Place of Event	2026, 1- 3 July, Zagreb, CROATIA
Name of the Event	International Conference of Environmental Remote Sensing and GIS (ICERS 2026)
Date & Place of Event	2025, 1-4 Sept., Samsun, TURKIYE
Name of the Event	11 th International Congress on “Innovations in Soil Science and Plant Nutrition under Climate Change” (Eurasian Soil Congress 2025)
Date & Place of Event	2025, 28 June-7 July 2025, Albena, BULGARIA
Name of the Event	25 th International Multidisciplinary Scientific GeoConference SGEM2025
Date & Place of Event	2024, 19-21 Nov., Baku, AZERBAIJAN
Name of the Event	COP-29 Side Event – Eurasian Conference Innovations in Minimization of Natural and Technological Risk of Climate Changes: Methodology and Practice
Date & Place of Event	2024, 29 June - 8 July, Albena, BULGARIA
Name of the Event	24 th International Multidisciplinary Scientific GeoConference SGEM2024
Date & Place of Event	2024, 2-5 May, Alanya, TURKEY
Name of the Event	International Conference on Advances in Technology, Education and Science (ICATES)
Date & Place of Event	2023, 28-29 Aug., Paris, FRANCE
Name of the Event	11 th Global Summit and Expo on Pollution Control
Date & Place of Event	2022, 2-11 July, Albena, BULGARIA
Name of the Event	XXII International Multidisciplinary Scientific GeoConference – SGEM 2022
Date & Place of Event	2022, 13-18 Febr., Valencia (UPV), SPAIN
Name of the Event	Workshop on Water-Related Hazards for Environment and Population –WRHEP 2022
Date & Place of Event	2020, 18-24 Aug., Albena, BULGARIA (online)
Name of the Event	20 th International Multidisciplinary Scientific GeoConference – SGEM 2020
Date & Place of Event	2020, 13-17 July, USA (Virtual meeting)
Name of the Event	19 th Conference on Mountain Meteorology, AMS – American Meteorological Society
Date & Place of Event	2019, 25-26 Nov., Dubai, UAE
Name of the Event	International Conference on Climate Change
Date & Place of Event	2019, 30 June – 6 July, Albena, BULGARIA
Name of the Event	19 th International Multidisciplinary Scientific GeoConference – SGEM2019
Date & Place of Event	2017, 4- 6 Oct., TSU, Tbilisi, GEORGIA
Name of the Event	Intern. Conf. “Landscape Dimensions of Sustainable Development” – ICLDSD 2017
Date & Place of Event	2017, 21-23 April, Delft, The NETHERLANDS
Name of the Event	Water Resources Management Workshop – WRMW 2017
Date & Place of Event	2016, 21-23 Nov., Osaka, JAPAN
Name of the Event	2 nd International Conference on Science, Engineering & Environment – SEE-Osaka 2016
Date & Place of Event	2016, 28 Aug.-2 Sept., Montpellier, FRANCE
Name of the Event	5 th International Eco Summit “Ecological Sustainability: Engineering Change”
Date & Place of Event	2016, 27 June-1 July 2016, Burlington, VT, USA
Name of the Event	17 th Conference on Mountain Meteorology – AMS 2016
Date & Place of Event	2016, 23-25 May, Kemer-Antalya, TURKEY
Name of the Event	4 th International Geography Symposium – GEOMED 2016
Date & Place of Event	2015, 16-18 June, Alicante, SPAIN
Name of the Event	4 th International Conference on Earth Science & Climate Change – OMICS Group
Date & Place of Event	2015, 5-7 November, Tbilisi, TSU, GEORGIA
Name of the Event	Network Conf. “Human & Environ. Resources in Multiethnic Societies” JLU Giessen–TSU
Date & Place of Event	2015, 22-23 Nov., Colombo, SRI-LANKA
Name of the Event	4 th International Conference on Climate Change Adaptation – CCA 2015
Date & Place of Event	2014, 15-19 Sept., Torino, ITALY
Name of the Event	XII International IAEG Congress “Engineering Geology for Society and Territory”
Date & Place of Event	2014, 28-30 July, San Francisco, USA
Name of the Event	3 rd International Conference on Earth Science & Climate Change – OMICS Group

Date & Place of Event	2014, 17-26 June, Albena, BULGARIA
Name of the Event	14 th International Multidisciplinary Scientific GeoConference & Expo – SGEM 2014
Date & Place of Event	2013, 17-20 Sept., Bari, ITALY
Name of the Event	International Conference “Biochars, Composts & Digestates: Production, Characterization, Regulation, Marketing, Uses & Environmental Impact” – BCD 2013
Date & Place of Event	2013, 3-5 May, Edremit-Balikesir, TURKEY
Name of the Event	2 nd International Symposium on Kaz Mountains & Edremit – IKES 2013
Date & Place of Event	2013, 9-12 April, Bonn, GERMANY
Name of the Event	UNCCD 2 nd Scientific Conference “Economic Assessment of Desertification, Sustainable Land Management & Resilience of Arid, Semiarid & Dry Sub-humid Areas”.
Date & Place of Event	2012, 18-22 Oct., Bengaluru, INDIA
Name of the Event	8 th International Symposium on Plant-Soil Interactions at Low pH
Date & Place of Event	2011, 4-6 Nov., Bucharest, ROMANIA
Name of the Event	International Conference Environment – Landscape – European Identity
Date & Place of Event	2011, 6-8 Sept., Brno, CZECH Rep.
Name of the Event	International Conference “Soil, Plant & Food Interactions”, Mendel University
Date & Place of Event	2011, 21-27 July, Bern, SWITZERLAND
Name of the Event	XVIII INQUA-Congress “Quaternary sciences – the view from the mountains”.
Date & Place of Event	2010, 12-16 July, IGU, Tel Aviv, ISRAEL
Name of the Event	IGU’s Regional Conference “Bridging Diversity in a Globalizing World”
Date & Place of Event	2010, 23-25 April, Bangkok, THAILAND
Name of the Event	International Conference on Environmental Science & Technology (ICEST 2010)
Date & Place of Event	2009, 3-5 June, Oslo, NORWAY
Name of the Event	SPARE Conference on Energy and Climate in the EECCA Region
Date & Place of Event	2006, 16-21 Nov., Beijing University, CHINA
Name of the Event	The Sino-German High-Level Expert Workshop: “Applications of Landscape Planning Towards Sustainable Urbanization & Land-use”, Beijing University – <i>Invited Representative of Georgia</i>

GRANTS & PROJECTS

Dates, Name of the Project	(2026) Earthen Dam Cascading Rupture Risk Assessment and Modeling in the Kura River basin
Donor & Role in the Project	ESRA (European Safety & Reliability Association) South Caucasus Workshop ESCW – <i>Co-chair</i>
Dates, Name of the Project	(2024-2025) Development of water resource management plans for "Kolkheti National Park" and "Javakheti Protected Areas".
Donor & Role in the Project	Swedish International Development Cooperation Agency (SIDA) – Ministry of Environment Protection and Agriculture of Georgia, LEPL Agency of Protected Areas of Georgia – <i>Project Technical Manager</i>
Dates, Name of the Project	(2023) International Credit Mobility Program at SLU, ICM Grant KA 107, Sweden
Donor & Role in the Project	Erasmus+, financed by the European Commission (EU) – <i>Visiting academic staff</i>
Dates, Name of the Project	(2021-2022) Scientific Publication Grant – monograph “Positives and Negatives of Water Reservoirs” (SP-21-070).
Donor & Role in the Project	Shota Rustaveli National Science Foundation – <i>Project head</i>
Dates, Name of the Project	(2019-2022) “Methods of assessing the negative impact of the water reservoirs on the Environment and population safety” (FR-18-009)
Donor & Role in the Project	Shota Rustaveli National Science Foundation – <i>Principal Investigator</i>
Date, Name of the Project	(2015-2017) “Modern Method for Realization of Joint Problem of Coastal Protection & Hydro-energetics” (AR/220/9-120/14)
Donor & Role in the Project	Shota Rustaveli National Science Foundation – <i>Principal Investigator</i>
Date, Name of the Project	(2014-2015) Intern. Conf. “Applied Ecology: Problems, Innovations”, ICAE-2015
Donor & Role in the Project	Shota Rustaveli National Science Foundation of Georgia – <i>Principal Investigator, Conference Chairman</i>
Date, Name of the Project	(2012-2013) “Sorting & Recycling of Household Waste in Ecological Village”
Donor & Role in the Project	Shota Rustaveli National Science Foundation – <i>Research Supervisor</i>

Date, Name of the Project	(2010-2013) "Soil Investigation/Systematization of Georgia on the Basis of World Reference Base for Soil Resources".
Donor & Role in the Project	Georgia National Science Foundation – <i>Coordinator of cameral works</i>
Date, Name of the Project	(2009) "Estimation of the Modern Condition of a Hydrological Mode & Soils of Chiauri Wood for the Purpose of Restoration & Development of Woods".
Donor & Role in the Project	International Program "Decrease in the Influence of Climate Change in the South Caucasus for the Purpose of Restoration of Wood Landscapes" – <i>Soil Scientist</i>
Date, Name of the Project	(2007-2008) "Application of the Tuning Approach in the Georgian Higher Education"
Donor & Role in the Project	Tempus Programme – <i>Member of Earth Science Group</i>
Date, Name of the Project	(2007-2008) "Landscape Planning in the South Caucasus Region, Adjara"
Donor & Role in the Project	German Federal Agency for Nature Conservation (BfN) in partnership with Berlin Technical University & WWF – <i>Soil Scientist</i>
Date, Name of the Project	(2006-2008) "National Atlas of Georgia"
Donor & Role in the Project	Georgia National Science Foundation (GNSF) – <i>Head of Biogeography Group</i>
Date, Name of the Project	(2004-2005) "Development of Landscape-ecological Basis for Overall Forest Land Use Zoning – Adjara Region"
Donor & Role in the Project	World Bank, Forest Sector Development Project – <i>Soil Scientist</i>
Date, Name of the Project	(2004, 2003, 2001- 2002) "Development of Landscape-ecological Basis for Overall Forest Land Use Zoning"
Donor & Role in the Project	World Bank, Forest Sector Development Project – <i>Soil Scientist</i>
Date, Name of the Project	(2003-2004) "Natural Resources Database for the South Caucasus"
Donor & Role in the Project	Environmental Agency of Switzerland, CENN – <i>Main Implementer</i>
Date, Name of the Project	(2003-2004) "Ecological Explanatory Dictionary on Fifth Languages" (English, Russian, Georgian, Armenian, & Azerbaijan)
Donor & Role in the Project	Regional Ecological Center (REC) of Caucasus – <i>Co-author</i>

INTERNATIONAL EDITORIAL ACTIVITY

Name of organization, Position	Journal of Environmental Biology (JEB), Special Issue "Earth & Environmental Sciences: Advancements for Sustainable Development", pISSN: 0254-8704, eISSN: 2394-0379 – <i>Guest Editor</i>
Name of organization, Position	Eurasian Journal of Soil Science (EJSS), e-ISSN: 2147-4249 – <i>Scientific Editor</i>
Name of organization, Position	Int. J. of Sustainability & Risk Control (IJSRC), pISSN 3104-834X, eISSN 3104-8358 (online), Amir Technical Services LLC – <i>Members of Editorial Board</i>
Name of organization, Position	Algerian Journal of Environmental Science and Technology (ALJEST) ISSN: 2437-1114 (Print); ISSN: 2478-0030 (Online) – <i>Member of Editorial Board</i>
Name of organization, Position	American Journal of Environmental Protection (AJEP), SciencePG, Special Issue "Applied Ecology: Problems, Innovations", ISSN: 2328-5680 (Print) – <i>Lead Guest Editor</i>
Name of organization, Position	Earth Sciences, SciencePG, Special Issue "Modern Problems of Geography & Anthropology", ISSN: 2328-5974 (Print); ISSN: 2328-5982 (Online) – <i>Guest Editor</i>
Name of organization, Position	International Research Journal of Public & Environmental Health (IRJPEH), Journal Issues, ISSN: 2360-8803 – <i>Member of Editorial Board</i> https://journalissues.org/wp-archive/irjpeh/editors/
Name of organization, Position	"Developments in Science and Engineering", ISBN: 978-954-07-4137-6, St. Kliment Ohridski University Press, Sofia, 2016 – <i>Co-Editor</i>
Name of organization, Position	Journal of Social Research & Behavioral Sciences, ISSN: 2613-5817; E-ISSN: 2613-5825 PIRETC – <i>Member of Editorial Board & International Advisory</i>
Name of organization, Position	Georgian Geographical Journal (GGJ), ISSN: 2667-9701 – <i>Section Editor-in-Chief</i> https://journals.4science.ge/index.php/GGJ
Name of organization, Position	Journal "TSU Sciences" (2013-2018) – <i>Member of Editorial Board</i>
Name of organization, Position	National Atlas of Georgia (2012) – <i>Member of Editorial Board</i>

INTERNATIONAL ORGANIZING COMMITTEES

- (2026) 8th Eurasian Conference RISK-2026 & Esra South Caucasus Workshop, Oct. 22-24, Baku, Mingachevit, Azerbaijan – *Co-Chair*.
 - (2025) 11th International Congress on “Innovations in Soil Science and Plant Nutrition under Climate Change” (Eurasian Soil Congress 2025), Sept. 1-4, 2025, Samsun, Turkiye – *Member of Scientific Committee*.
 - (2025) International Conference on Advances in Technology, Education, and Science, May 1-4, 2025, Trabzon, Turkiye – *Member of Organizing/Scientific Committee*.
 - (2025) 7th Eurasian Conference RISK-2025 Risk-oriented Design and Operation of Infrastructure Systems: Sustainability Paradigm, Oct. 21-23, 2025, Baku, Azerbaijan – *Member of Organizing/Scientific Committee*.
 - (2024) COP-29 Side Event – Eurasian Conference Innovations in Minimization of Natural and Technological Risk of Climate Changes: Methodology and Practice, Nov. 19-21, 2024, Baku, Azerbaijan – *Member of Organizing/Scientific Committee*.
 - (2023) The 5th Eurasian RISK2023 Conference “Innovations in Minimization of Natural and Technological Risks”, Oct. 17-19, 2023, Baku, Azerbaijan – *Member of Organizing/Scientific Committee*.
 - (2022) 22nd International Multidisciplinary Scientific GeoConference SGEM 2022 – *Section chair*.
 - (2022) 4th Eurasian Risk Conference and Symposium – RISK 2022 – *Section chair*.
 - (2019) International Conference on Climate Change, November 25-26, 2019, Dubai, United Arab Emirates – *Member of Organizing Committee*.
 - (2016) GEOMED 2016 – 4th International Geography Symposium, May 23-26, 2016, Antalya, Turkey – *Member of International Scientific Advisory Committee; Section chair*.
 - (2016) SEE-Osaka 2016 – 2nd International Conference on Science, Engineering & Environment, 21-23 Nov., Osaka, JAPAN – *Section chair*.
 - (2016) ISCAS 2016 – The Selçuk International Scientific Conference on Applied Sciences, Sept. 27-30, Antalya, TURKEY – *Member of the Scientific Committee*.
 - (2015) ICAE-2015 – International Conference “Applied Ecology: Problems, Innovations”, May 7-10, 2016, Tbilisi-Batumi – *Chair of the Organizing Committee*.
 - (2015) ICEEE 2015 – International Conference on Energy, Environment & Earth Sciences, Dec. 12-13, Hangzhou, China – *Member of International Scientific Advisory Committee*.
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ANOTHER TARGET ACTIVITY

- Sectoral Council for Earth Sciences in Higher Education – *Chairman*.
 - Sectoral Council for Environmental Science in Higher Education – *Council Member*.
 - Expert commission at the National Environmental Protection Agency for reviewing the draft action plan to eliminate significant environmental damage – *Public Expert*.
 - Representative Council (Senate) of Tbilisi State University (2014-2018; 2018-2022; 2022-2026) – *Member*.
 - Scientific-Research Institute of Applied Ecology at the Faculty of Exact & Natural Sciences, TSU – *Director*.
 - Doctoral Program “Applied Ecology” at the TSU – *Head*.
 - Master's Program “Physical Geography & Sustainable Development” at the Faculty of Exact & Natural Sciences, Geography Department, TSU – *Co-head*.
 - Bachelor's Program “Geography” at the Faculty of Exact & Natural Sciences, Geography Department, TSU – *Head*.
 - Soil Scientists Society of Georgia (2009-2013) – *Vice-president*.
 - Geographical Society of Georgia – *Member of the Scientific Board*.
 - Dissertation Council of TSU (since 2023) – *Deputy Chairman*.
 - Faculty of Exact and Natural Sciences (TSU) – *Member of the Publishing Board*.
 - Faculty of Exact & Natural Sciences (TSU) – *Chair of the Editorial Board in Geography*.
 - Interagency Commission for the Protection and Rational Use of Natural Resources under the Academic Council of the Georgian National Academy of Sciences (2006-2012) – *Member*.
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List of Recent Selected Publications

- Overcoming Parcel Delineation Constraints in Georgia Using Multi-Source Satellite Imagery. International Conference of Environmental Remote Sensing and GIS (ICERS 2026), 1-2 July 2026, Zagreb, Croatia. Vol.2, University of Zagreb, Faculty of Geodesy, 125-128 (Tsitsagi A., Matchavariani L., Tsitsagi M.)
- Structural Properties and Growth Dynamics of an Uneven-Aged Pure Forest Stand. International Journal of GEOMATE, Japan, 2025, ISSN: 2186-2982(P), 2186-2990 (O), Japan, DOI: <https://doi.org/10.21660/2025.130.4810>, June, 2025, Vol. 28, Issue 130, 35-42 (Khujadze N., Matchavariani L.)
- Water Reservoir Life Extension and Methods to Specify Water Balance. Journal RTA: "Reliability: Theory and Applications", USA, ISSN: 1932-2321, #6(81), Part-2, Vol. 19, Dec. 2024, 661- 668 (Matchavariani L., Metreveli G.)
- A Comparative Study of Carbon Sequestration in Different Types of Forest. Proceedings of 24 International Multidisciplinary Scientific GeoConference SGEM2024 – Section: Forest Ecosystem, Publisher STEF92 Technology, DOI 10.5593/sgem2024/3.1/s14.40, ISSN: 1314-2704, ISBN 978-619-7603-42-2, Bulgaria, Sofia, 2024, Vol. 2024(3.1), 339-345 (Khujadze N., Matchavariani L.)
- The Map of Agronomic-botanical Areas of Georgia as a Source of a Retrospective Picture of Traditional Nature Management. Proceedings of the 14th International Conference on GEOMATE 2024, ISBN: 978-4-909106056 C3051, Pattaya, Thailand, 13-15 November 2024, 544-549 (Nikolaishvili D., Matchavariani L., Arsenashvili A., Salukvadze E., Tsitsagi M)
- Dynamics and Structural Characteristics of an Uneven-Aged Pure Pine Stand. Proceedings of the 14th International Conference on GEOMATE 2024, ISBN: 978-4-909106056 C3051, Pattaya, Thailand, 13-15 November 2024, 526-531 (Khujadze N., Matchavariani L.)
- Mapping of Erosion by Wind with RS Data and GIS (case study of Dedoplistskaro Municipality, Georgia). Georgian Geographical Journal (GGJ), 2024, 4(1), 47-56 (Tsitsagi M., Matchavariani L., Tsitsagi A.)
- Public Voices in Environmental Decision-Making in Georgia. European Journal of Sustainable Development, ISSN: 2239-5938, 2024, 13(1) (Chichua M., Matchavariani L.)
- Landscapes Dynamics of Samtskhe-Javakheti, Georgia. International Journal of GEOMATE, ISSN: 2186-2982(P), Japan, April 2023, Vol. 24(104), 62-68 (Tskhavardze M., Nikolaishvili D., Matchavariani L., Lagidze L., Trapaidze V.)
- Positive and Negative Aspects of Water Reservoirs. Proceedings of 22nd International Multidisciplinary Scientific GeoConference SGEM2022, Vol. 22, Issue 3.1, Bulgaria, 2022, 145-152 (Matchavariani L., Metreveli G., Gulashvili Z.)
- Mining-Related Metal Pollution and Ecological Risk Factors in South-Eastern Georgia. Sustainability, Switzerland, 2022, vol.14, issue 9, 5621 (Avkopashvili M., Avkopashvili G., Avkopashvili I., Asanidze L., Matchavariani L., Gongadze A., Gakhokidze R.) <https://doi.org/10.3390/su14095621>
- Soils. Chapter 12 in the book: The Physical Geography of Georgia (Eds. N. Bolashvili, V. Neidze). Geography of the Physical Environment. Springer, Cham, Switzerland, 2022, 133-140 (Matchavariani L.)
- Methodology for the implementation of problems caused by reservoirs on the Seashore. RTA: Reliability: Theory and Applications, USA, #4(70), Vol. 17, 2022, 227-234 (Matchavariani L., Metreveli G.)
- Assessment Scheme of Water Reservoirs' Impact on Groundwater. International Journal of GEOMATE, Japan, 2022, 22(90), 110-117 (Matchavariani L., Metreveli G., & Gulashvili Z.)
- Monograph (in Georgian): Positives and Negatives of Water Reservoirs. ISBN: 978-9941-9784-6-3, Tb., Samshoblo, within the SRNSF Scientific Publication Grant (SP-21-070), 2022, 200 p. (Metreveli G., Matchavariani L.)
- Investigation of Water-Reservoirs Impact Mechanism on Groundwater and Indicator Scheme of Assessment. Proceedings of the 7th Int. Conf. on Structure, Engineering & Environment (SEE), Pattaya, Thailand, 2021, Nov. 10-12, 452-457 (Matchavariani L., Metreveli G., Gulashvili Z.)
- Role of Water Reservoirs in the Seashore Dynamics. Proceedings of the 21st International Multidisciplinary Scientific GeoConference SGEM2021, 3.1, Bulgaria, 2021, 285-292 (Matchavariani L., Metreveli G., Gulashvili Z.)
- Estimation of Climatic Background and its Regional Parameters. Proceedings of the 20th International Multidisciplinary Scientific GeoConference SGEM2020, vol. 20(4.1), Bulgaria, 2020, 423-432 (Matchavariani L., Metreveli G., Gulashvili Z.)
- Multi-Temporal Image Analysis for Alazani River (Georgia) Meandering Change Detection. Proceedings of the 20th International Multidisciplinary Scientific GeoConference SGEM2020, vol.20(1.1), Bulgaria, 2020, 669-676 (Tsitsagi M., Matchavariani L., Ghambashidze G., Nikolaishvili D., Nikolaishvili E.)

Control Soil Erosion Measures on Mountain Slopes. Journal of Environmental Biology, 2020, vol. 41(2), 405-412 (Kereselidze D., Matchavariani L., Trapaidze V., Bregvadze G., Gaprindashvili G., Megrelidze I.)

Influence of Meteorological Factors on Ecological Conditions of the Atmosphere in Tbilisi, Georgia. Journal of Environmental Biology, 2020, vol. 41(2), 391-395 (Lagidze L., Matchavariani L., Svanadze D., Khomasuridze G.)

Metals Distribution in Soil Contaminated by Gold and Copper Mining in Georgia. Journal of Environmental Biology, vol.41(2), 2020, 310-317 (Avkopashvili M., Gongadze A., Avkopashvili G., Matchavariani L., Lagidze L., Asanidze L.)

Monograph: The Soils of Georgia (*Editor* Lia Matchavariani). World Soils Book Series, ISBN 978-3-030-18508-4, Springer, Switzerland, 2019, 179p. <https://www.springer.com/gp/book/9783030185084#otherversion=9783030185091>

The Soils of Georgia: Introduction. Chapter 1 in the book “The Soils of Georgia” (*Editor* Lia Matchavariani). ISBN 978-3-030-18508-4, eBook ISBN 978-3-030-18509-1, Springer, 2019, 1-6 (Matchavariani L.)

History of Soil Survey. Chapter 2 in the book “The Soils of Georgia” (*Editor* Lia Matchavariani). ISBN 978-3-030-18508-4, eBook ISBN 978-3-030-18509-1, Springer, 2019, 7-18 (Matchavariani L., B. Kalandadze)

Soil-Forming Factors. Chapter 3 in the book “The Soils of Georgia” (*Editor* Lia Matchavariani). ISBN 978-3-030-18508-4, eBook ISBN 978-3-030-18509-1, Springer, 2019, 19-50 (Matchavariani L.)

Soil Processes. Chapter 4 in the book “The Soils of Georgia” (*Editor* Lia Matchavariani). ISBN 978-3-030-18508-4, eBook ISBN 978-3-030-18509-1, Springer, 2019, 51-66 (Matchavariani L.)

Soil Distribution and Properties. Chapter 5 in the book “The Soils of Georgia” (*Editor* Lia Matchavariani). ISBN 978-3-030-18508-4, eBook ISBN 978-3-030-18509-1, Springer, 2019, 67-124 (Matchavariani L., Kalandadze B.)

Soil Pollution. Chapter 8 in the book “The Soils of Georgia” (*Editor* Lia Matchavariani). ISBN 978-3-030-18508-4, eBook ISBN 978-3-030-18509-1, Springer, 2019, 153-179 (Kalandadze B., Matchavariani L.)

Method for Hydrological Parameters: Definition of Silting Prism and Equilibrium Bed in Water Reservoirs. Proceedings of the 19th International Multidisciplinary Scientific GeoConference SGEM2019, vol. 19, Issue 3.1, Bulgaria, 2019, 363-368 (Metreveli G., Matchavariani L., Gulashvili Z.)

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