

RESUME

1. **Family Name:** Bakradze
2. **First Name:** Elina
3. **Date of Birth:** 9.12.1982
4. **Citizenship:** Georgia
5. **Tel.:** 591404064; 599500884
6. **Education:**

<i>Educational Institution</i>	Technical University of Georgia, for the Doctoral Study – ‘‘Geo-Ecological Monitoring of the Rivers Mashavera and Poladauri Catchment Areas’’ (PhD)
<i>Period: from (month/year) to (month/year)</i>	2009 -2014
<i>Degree or Diploma</i>	Diploma – Doctoral Academic Degree Doc № 000530

<i>Educational Institution</i>	The Ivane Javakhishvili state University in the specialty of chemical Expertise
<i>Period: from (month/year) to (month/year)</i>	2004-2006
<i>Degree or Diploma</i>	Diploma -Master’s Academic Degree in Organic chemistry and the qualification of Chemical Expertise; M № 000096

<i>Educational Institution</i>	The Ivane Javakhishvili state University in the specialty of chemical Expertise
<i>Period: from (month/year) to (month/year)</i>	2000-2004
<i>Degree or Diploma</i>	Diploma – Bachelor’s Academic Degree in Chemistry, the qualification of Chemist-Expert; B № 11454

<i>Educational Institution</i>	INTERNATIONAL HOUSE WORLD ORGANISATION
<i>Period: from (month/year) to (month/year)</i>	1999-2000
<i>Degree or Diploma</i>	Diploma - TOEFEL

7. Other training:

<i>Educational Institution</i>	TAIEX Workshop on Persistent Organic Pollutants Waste Management
<i>Period: from/to</i>	Slovakia April 20-23 2016
<i>Description of studies:</i>	multi country meeting Providing an overview of the EU legislation related to HBCD and BDEs

<i>Educational Institution</i>	Bratislava Water Research Institute
<i>Period: from/to</i>	Slovakia December 17-24 2016
<i>Description of studies:</i>	Analyses of Current monitoring activities in Slovakia

<i>Educational Institution</i>	National Environmental Agency
<i>Period: from/to</i>	Georgia, January 2016
<i>Description of studies:</i>	Training on Ion Chromatography ICS 2100

<i>Educational Institution</i>	Thermo
<i>Period: from/to</i>	Georgia, October , 2015
<i>Description of studies:</i>	Training on Ion Chromatography

<i>Educational Institution</i>	Estonian Ministry of Environment in co-operation with the Estonian Centre of Eastern Partnership, supported by SIDA
<i>Period: from/to</i>	Georgia, 2-3 November , 2015
<i>Description of studies:</i>	Seminar ‘’ reforming Georgian environmental sector’’

<i>Educational Institution</i>	Norsk Energi
<i>Period: from/to</i>	2015 July

<i>Description of studies:</i>	Knowledge Sharing Workshop in the frame of the program Sustainable Hydropower Development in Georgia. workshop on Environmental and Social Planning for Management of Hydropower Projects.
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<i>Educational Institution</i>	MILESTONE
<i>Period: from/to</i>	2015 May
<i>Description of studies:</i>	Microwave Extraction System

<i>Educational Institution</i>	Strengthening of the Metrology and Standardization Infrastructure According to the Best Practices in the EU Member States"
<i>Period: from/to</i>	January 15-16, 2014
<i>Description of studies:</i>	Introduction into the audit methodology according to ISO 19011: 2011 “Guidelines for Auditing Management Systems”

<i>Educational Institution</i>	EPIRB and Human Dynamics
<i>Period: from/to</i>	2013
<i>Description of studies:</i>	Introduction to the procedures and techniques required for international accreditation and quality control for water laboratories ISO 17025

<i>Educational Institution</i>	Training for Legal and Administrative Capacity Strengthening in pesticide site investigation, risk assessment and management options, UNDP; REC Caucasus; GEF; Ministry of Environment Protection.
<i>Period: from/to</i>	2012
<i>Description of studies:</i>	in pesticide site investigation

<i>Educational Institution</i>	Environmental public Health
<i>Period: from/to</i>	August 2012
<i>Description of studies:</i>	University Minnesota school of Public Health

<i>Educational Institution</i>	Assessment of Traceability of Measurements, Internal Quality Control, Proficiency Testing and
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	Measurement of Organic Compounds
<i>Period: from/to</i>	FINNLAND 2012
<i>Description of studies:</i>	QA/QC Organic Compounds

<i>Educational Institution</i>	University of MINNESOTA, of Public Health Division of Environmental Health sciences
<i>Period: from/to</i>	August 2012
<i>Description of studies:</i>	Environmental public health training

<i>Educational Institution</i>	Assessment of Traceability of Measurements, Internal Quality Control, Proficiency Testing and Measurement Uncertainties in Testing Labs (ISO/IEC 17025)
<i>Period: from/to</i>	26-28 of march 2012
<i>Description of studies:</i>	(ISO/IEC 17025)

<i>Educational Institution</i>	UNDP/GEF Project
<i>Period: from/to</i>	27-30 March 2012
<i>Description of studies:</i>	Rapid Ecological Assessment- Environmental Flows-Bio-Monitoring

<i>Educational Institution</i>	University of MINNESOTA, of Public Health Division of Environmental Health sciences
<i>Period: from/to</i>	2-3 September 2010
<i>Description of studies:</i>	Environmental Health

<i>Educational Institution</i>	Environmental Institute
<i>Period: from/to</i>	6 – 13 June Slovakia 2010
<i>Description of studies:</i>	“General requirements for the competence of testing and calibration laboratories” ISO 17025 QA/QC

<i>Educational Institution</i>	Georgia by the Slovak experts
<i>Period: from/to</i>	2010
<i>Description of studies:</i>	ISO 17025 QA/QC

<i>Educational Institution</i>	Federal Ministry of Economic Cooperation and Development (BMZ) on behalf of the Government of the
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	Federal Republic of Germany.
<i>Period: from/to</i>	5-6 July, 2010
<i>Description of studies:</i>	Communication management

<i>Educational Institution</i>	University of MINNESOTA, of Public Health Division of Environmental Health sciences
<i>Period: from/to</i>	March 31 – 3 April, 2009
<i>Description of studies:</i>	Environmental Characterization (Ground Water & surface water) and risk Assessment at hard rock mine sites

<i>Educational Institution</i>	European school of Management ESM-Tbilisi.
<i>Period: from/to</i>	27.02.08 – 2.04.08
<i>Description of studies:</i>	Program on management and have proper certificate.

<i>Educational Institution</i>	2nd Biannual and Black Sea SCENE EC project joint conference, Sofia, Bulgaria
<i>Period: from/to</i>	2008
<i>Description of studies:</i>	Reporting

<i>Educational Institution</i>	Tourism and Resort Department
<i>Period: from/to</i>	27, 2008
<i>Description of studies:</i>	"Tourism and climate changes".

<i>Educational Institution</i>	Georgian Finnish Project Development of Environment monitoring and Management Systems in Georgia
<i>Period: from/to</i>	18 – 20 March, 2008
<i>Description of studies:</i>	Quality management for Environmental Laboratories

<i>Educational Institution</i>	EUROPEAN CSCHOOL OF MANAGMENT ESM- TBILISI
<i>Period: from/to</i>	February 27 – 2 April, 2008
<i>Description of studies:</i>	Program in management

<i>Educational Institution</i>	SYKE Study tour “Water resources management”
<i>Period: from/to</i>	2- 16 June 2008 Estonia and Finland
<i>Description of studies:</i>	Developing of the Environmental

	monitoring and management systems
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<i>Educational Institution</i>	UNEP, GPA, BSERP
<i>Period: from/to</i>	12- 13 June, 2007
<i>Description of studies:</i>	National Workshop for Georgia in Support of Capacity – Building of National and Local Authorities responsible for the Implementation of the Revised Black sea Protocol Against Pollution from Land-Based Sources and Activities to the Bucharest Convention

<i>Educational Institution</i>	The SPAMGO training centre
<i>Period: from/to</i>	21 -27 May 2007
<i>Description of studies:</i>	PROJECT MENEGMENT

<i>Educational Institution</i>	The SPAMGO training centre
<i>Period: from/to</i>	29 November, 2007
<i>Description of studies:</i>	Environmental Management Systems

<i>Educational Institution</i>	The SPAMGO training centre
<i>Period: from/to</i>	14 -27 May 2007
<i>Description of studies:</i>	Water and Sanitation

8. Membership in Professional Organizations:

- Technical assessor depending on ISO 17025 of the LEPL "The Unified National Body of Accreditation - Accreditation Centre" of Georgia;
- Associate Member of European consulting network;
- Member of the European Geosciences Union.

9. Language skills: (1 to 5 scale with 5 the highest grade)

<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
<i>Georgian (native)</i>	5	5	5
English	5	5	5
Russian	5	5	5
Spanish	2	3	2

- 10. Computer Skills:** Operating systems Windows, MS Word *XP*, MS Excel *XP*, Access, PowerPoint, Internet and E-mail; MS Project, EMS – Electronic management system, etc;
- 11. Current position:** Ministry Of Environment and Natural resources Protection of Georgia The LEPL National Environmental Agency, Head of the Atmospheric Air water and soil analyses laboratory.
- 12. Years of Experience at current employment:** 10 years (since 2005 till present)

13. Key Qualification:

- Coordinates the activities of the laboratory;
- Carries out methodical management of the chemical analysis;
- Provides international methods for chemical analysis - assimilation, translation;
- Experience in the surface, precipitation, atmospheric air and other matrices analyses by Chromatography, spectrometer and other equipments, determination, subsequent data Processing and reporting;
- Ensures quality control Depending the ISO 17025 in the laboratory of the Department;
- Experience in river monitoring: Analyses sampling, data management and reporting;
- Academic Education in field of Chemistry (master's academic Degree, Doctor's academic degree (PhD));
- Experience in Participation in international projects;
- Experience in Participation in international projects as an National Expert;
- Experienced in the field of in the field of Environment, Water, the Soil atmospheric air and atmospheric sedimentation pollution, also plants essence of an anthropogenous origin, research of their processes of migration and absorption;
- Has Experience in Assessment of the Black Sea Pollution, Assessment of environmental pollution by the statistical analysis;
- Has developed and tested new advanced methodologies for determination of concentration of hazardous substances in water depending on International standards;
- Has prepared the QC manual Depending on the ISO 17025 and Standard operation procedures for the laboratory purposes, Quality plan;
- She is familiar with modern sampling techniques for analysing organic contaminants including POPs in water, sediments, particles and organisms; clean-up methods and high resolution determination and risk assessment. She spent his last 12 years with a group of environmental analytical chemists.
- Is invited in National Accreditation Body as a technical assessor depending on ISO 17025.
- Has received Deferent Kind of certificates of performance of laboratory interlaboratory comparisons tests on: "Trace Inorganic and Organic Analysis"
- Regional Consultant in Development of fresh water strategy in the Caucasus Ecoregion (Georgia, Armenia, Azerbaijan).

- Invited in LEPL "The Unified National Body of Accreditation - Accreditation Centre" of Georgia as Technical assessor depending on ISO 17025 (General requirements for the competence of testing and calibration laboratories);
- Co-author of the WWF Freshwater Strategy for the South Caucasus Region addressing Armenia, Azerbaijan and Georgia 2013;
- Has experience working as a lector in field of chemistry;
- Water quality expert - in the project of Regional Cooperation for Black Sea River Basins Environment Protection from Agricultural Polluters, REPAIR- 2013.
- Country research assistance -REC Caucasus, members of a team contracted by Florida International University as part of the USAID-funded Global Water for Sustainability Program (GLOWS). GLOWS is working here in Georgia on water resources management (WRM) and water supply, sanitation, and hygiene (WASH) programming in the Alazani basin Kakheti region 2014.
- December 17, 2015 won grant competition announced by the Shota Rustaveli National Science Foundation for young scientists (Grant Agreement N YS15_1.2.1.5_57) " Study of the pollution level of Alazani valley artificial reservoirs and their adjacent area" – project manager.
- Co author of the report ‘‘Rioni River Environmental Action program’’ 2015 May in the frames of the project REPAIR.

14. Experience:

<i>Period: from (month/year) to (month/year)</i>	2011 – now
<i>Location:</i>	Tbilisi, Georgia
<i>Name of Organization:</i>	National Environmental Agency, of Ministry Of Environment and Natural Resources Protection of Georgia
<i>Title:</i>	Head of the Atmospheric Air water and soil analyses laboratory (Division) of the Department of Environmental pollution Monitoring.
<i>Responsibilities:</i>	<ul style="list-style-type: none"> • Coordinates the whole technical activity of the laboratory; • Checks, elaborates/modifies and signs the test reports; • Carries out methodical management of the chemical analysis provided by the staff; • Provides for the accreditation requirements in terms of chemical analysis; • Provides international methods for chemical analysis - assimilation, translation; • Ensures quality control Depending the ISO 17025 in the laboratory; • Participates in international projects; • Develops and updates the Quality Manual; • Develops and checks the general and system

	<p>procedures;</p> <ul style="list-style-type: none"> • Responds to the implementation, maintenance and upgrading of the quality system of the laboratory; • Proposes the quality objectives of the laboratory; • Controls the quality documents and quality records developed at the laboratory level; • Trains personnel in the quality system requirements and documentation; • Maintains the evidence of nonconforming work at the level of the laboratory; • Produces the internal audit report; • is involved in cause of analysis, and are responsible for efficient implementation of corrective actions; • Participates in the management review of the quality system.
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<i>Period: from (month/year) to (month/year)</i>	2008- 2011
<i>Location:</i>	Tbilisi, Georgia
<i>Name of Organization:</i>	National Environmental Agency, of Ministry Of Environment Protection and Natural Resources of Georgia
<i>Title:</i>	Chief Chemist of the Department of Environmental pollution Monitoring.
<i>Responsibilities:</i>	<ul style="list-style-type: none"> • Quality Control Quality assurance, • inculcation of new methodologies regarding surface water; • Determination of the Biojenic elements by Chromatography in surface waters, rivers, lakes, seas, atmospheric sediments; • Implements quality control protection, provides complete documentation; • Participates in sampling in water sector; • Participates in international projects;

<i>Period: from (month/year) to (month/year)</i>	2006 - 2007
<i>Location:</i>	Tbilisi, Georgia
<i>Name of Organization:</i>	The Centre of the Monitoring and Prognostication of Ministry Of Environment Protection and Natural Resources of Georgia
<i>Title:</i>	Main Specialist of the Department of Environmental pollution Monitoring
<i>Responsibilities:</i>	<ul style="list-style-type: none"> • Performs chemical analysis in surface waters, lakes, seas and atmospheric air;

	<ul style="list-style-type: none"> • Works in chromatography; • Implements quality control protection; • inculcation of new methodologies regarding surface water; • Is responsible for device and the room; • Performs other duties assigned by the head of the laboratory;
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<i>Period: from (month/year) to (month/year)</i>	2007
<i>Location:</i>	Tbilisi, Georgia
<i>Name of Organization:</i>	the Centre of the Monitoring and Prognostication of Ministry Of Environment Protection and Natural Resources of Georgia
<i>Title:</i>	Senior Specialist of the Department of Environmental pollution Monitoring
<i>Responsibilities:</i>	<ul style="list-style-type: none"> • Performs chemical analysis in surface waters, lakes, seas and atmospheric air; • Works in chromatography; • Implements quality control protection; • participates in the international projects; • Performs other duties assigned by the head of the laboratory;

<i>Period: from (month/year) to (month/year)</i>	2005 -2006
<i>Location:</i>	Tbilisi, Georgia
<i>Name of Organization:</i>	The Centre of the Monitoring and Prognostication of Ministry Of Environment Protection and Natural Resources of Georgia
<i>Title:</i>	Probationer of the Department of Environmental pollution Monitoring
<i>Responsibilities:</i>	Acquaintance of the Environmental monitoring issues

15. Participation in International Projects:

Support to the trans-boundary management of the Kura river basin Phase I 2004-2006

TACIS – EU Project: Trans-Boundary River Management Phase II for the Kura River basin – Armenia, Georgia, Azerbaijan (2008);

ENPI Project: Trans-Boundary River Management for the Kura River basin Phase III – Armenia, Georgia, Azerbaijan (2012-2013)

NILU Norsk institute: Convention on Long -range Trans-boundary Air Pollution;

”Support of the Improvement of Quality Management System of Water Quality Monitoring and Information System as tool for the Decision Making Process in Water Policy in Georgia”

”THE BLACK SEA ENVIRONMENT RECOVERY PROJECT”

’DEMMS’ Georgian Finnish Project Development of Environment monitoring and Management Systems in Georgia;

NATO science program – “South Caucasus River monitoring project №977991SFP”

”Support of the Improvement of Quality Management System of Water Quality Monitoring and Information System as tool for the Decision Making Process in Water Policy in Georgia”

Georgian- Railway Investigation of Soil Pollution – COWI (A/S), Denmark, 2011.

KuraAras FSP/ 70228 UNDP- GEF Project, “Reducing Transboundary Degradation of the Kura Aras River Basin” – water quality expert at national level.

Georgian waters – Capacity building on the water monitoring and management in Georgia, 2010-2013 (Georgia Waters)

WWF Caucasus Programme Project for development Fresh water strategy in the Caucasus Ecoregion (Georgia, Armenia, Azerbaijan) 2012 – Regional Expert.

(INRMW) Integrated Natural Resources Management in Watersheds of Georgia 2011- 2014. Meeting - Seminar on "Surface Water Researches in laboratory conditions “for the eco camp Eco - Club Alliance, in the Mtirala National Park Areas.

Integrated Natural resources Management in watersheds (INRMW) of Georgia Program –provision of Environmental Quality screening Consulting services March 10.2012- September 30.2012

PIMS 2271 Reducing Transboundary Degradation in the Kura Aras river basin, Demonstration Project 2012-2013 - Expert on Hydrochemistry.

Project # 00076584: Title: Disposal of POPs Pesticides and Initial Steps for Containment of Dumped POPs Pesticides in Georgia 2012 - Key expert; Chemist/Chemical expert;

Reducing Transboundary Degradation in the Kura Aras river basin 2013;

Environmental Protection of International River Basins 2013-2014;

Regional Cooperation for Black Sea River Basins Environment Protection from Agricultural Polluters, REPAIR 2013-2014;

2014 - Creation of Measures to Mitigate the Alazani Valley Saline Soil Degradation on the Background of Modern Climate Change - Shota Rustaveli National Science Foundation N AR 136/9-110/11.

2014 -country research assistant USAID-funded Global Water for Sustainability Program (GLOWS) - Water Resources Management Sustainability Index Tool (WRM SIT) for Alazani river basin – Kakheti region.”

2014-2016 expert -"Strengthening of the water protection through the controlling system of the effluent quality and monitoring of the water bodies at risk in Georgia" Grant Co-operation agreement; project SAMRS/2014/VP/01/06.

2015 expert -Review and update of the national implementation plan for the Stockholm Convention on Persistent Organic Pollutants (POPs) in Georgia.

2015 expert on water column chemistry QA/QC direction - EMODnet Chemistry;

2015 water expert - The UNECE Strategic Environmental Assessment (SEA)Pilot Project on National Waste Management Strategy and Action Plan in Georgia.

2016- 2018 years - Scientific head of the Grant (Grant Agreement of 17 December 2015 N YS15_1.2.1.5_57) for Young Scientists "Study of the pollution level of Alazani valley artificial reservoirs and their adjacent area" Grant was announced by Shota Rustaveli National Science Foundation.

2013- 2016 Water Quality Expert - in The project REPAIR Regional Cooperation for Black Sea River Basins Environment Protection from Agricultural Polluters).

2014-2016 - expert – (data gathering, processing, quality control / quality assurance) of the project "Creating a database" program, the EU representative is the European Commission (Directorate-General for maritime affairs and fisheries).

16. Publications and Conferences:

Has published more than -36 scientific articles and papers:
(basics of them are)

2005 13-14 December - The VI Scientific Conference of young Chemists of Georgia which was published by the Chemical Society of Georgia in the State University of Tbilisi. (Pages 47-48);

2006 – International Conference – Enikolopov's readings, 4-6 October 2006 erevan Armenia New carbofunctional siliconorganic oligomers./Samakashvili S., Baqradze E., Sanshiashvili N., Lekishvili N.,/

2008 - "Some Aspects of Changes of The Black Sea Water Pollution" /G.Kuchava/, /M.ArabiZe/, /E.Bakradze/ National Environmental Agency CONFERENCE: "SOME ASPECTS OF CHANGES OF THE BLACK SEA WATER POLLUTION IN GEORGIA" (2000-2008)(Elina Bakradze, Marine Arabidze, George Kordzakhia, Gulchina Kutchava Elina Bakradze – The Centre for Monitoring and Prognostication 150, David Agmashenebeli av., 0112, Tbilisi, Georgia page 38-42;

2nd BIENNUAL AND BLACK SCENE EC PROJECT JOINT CONFERENCE SOME ASPECTS OF CHANGES OF THE BLACK SEAWATER POLLUTION IN GEORGIA(2000-2008) (Elina Bakradze, Marine Arabidze, George Kordzakhia, Gulchina Kutchava, Sofia, Bulgaria 6-9 October;

2010 - "The modern Ecological characteristic of the river Liakhvi basin" - /N.Buachidze, /L.Intskirveli, E. Bakradze, G.Kutchava/ Journal "Scientific and Technologies, Georgia" 2010 N 10 - 12;

"Some Aspects of Changes of the Black Sea Pollution" - /E. Bakradze, G.Kuchava, M.Arabidze /Works of Georgian Technical University Hydro meteorological institute vol. 116, 2011 year;

Hydrochemical Monitoring of the Liakhvi River. /Buachidze, K.Bilashvili, L.Intskirveli, G.Kuchava, E.Bakradze, N.Beglarashvili, L.Shavliashvili/. - Collected Papers, New Series №3 (82) "Environment and Global Warming", Proceeding of International Conference, Tbilisi, p.330-334, 2011.

G.P.Kuchava, E.M.Bakradze, M.A.Arabidze, M.G.Chigitashvili About modern a condition of monitoring of river. Hens for 2007-2008. Works of Technical University #3 (481), Art. 12-18, Tbilisi 2011

The modern condition of monitoring of the river Kura for 2007-2008. /G.Kuchava, E.Bakradze, M.Arabidze, M.Chigitashvili/ - Georgian Technical University, №3(481), p.12-17, 2011.

L. Intskirveli, N.. Buachidze, M.. Arabidze, c. Kuchava, E.. Bakradze, N.. Dvalishvili, M.. Tabatadze "Water quality determination in the Kura River basin using of the integrated of hydro-chemical parameters" the Technical University, Institute of Zoology of Hydrometeorology, vol.# 117, 128-131 2011

Papers of the International Conference Determination of the Quality of River Kura Basin Waters Using Integral Hydrochemical Indexes. /L.Intskirveli, N.Buachidze, M.Arabidze, G.Kuchava, E.Bakradze, N.Dvalishvili, M.Tabatadze/. - Transactions of the Institute of Hydrometeorology at the Georgian Technical University, vol.117, "Pressing Problems in Hydrometeorology and Ecology", Tbilisi, p.128-130, 2011.

International Scientific - Technical Conference Proceedings ISSN1512-0902, Technical University, Institute of Hydrometeorology the river. Kura basin water quality parameters using the integrated hydrochemical indicators / - L. Intskirveli, N. Buachidze, M. Arabidze, G. Kuchava, E. Bakradze, N. Dvalishvili , M. Tabatadze / Tbilisi 2011

GTU Student -80 open international Scientific conference, section Geology, Field of the theme:"River Mashavera and Poladauri Modern Geo-Ecological Characterization" Awarded by Diploma of III place, 2012 may;

Hydrochemical investigations of the Mashavera River and their results. /E.Bakradze, G.Kuchava, M.Arabidze, N.Buachidze, E.Shubladze/ - Georgian Engineering News #2 (62), p.106-108, 2012.

The modern geochemical characteristic of the rivers of Mashavera and Poladauri taking into account anthropogenic impact. /E.Bakradze, G.Kuchava, M.Arabidze, N.Buachidze, E.Shubladze/ - Georgian Engineering News #3 (63), p. 86, 2012;

The thesis - on the "Modern Geo- Ecological Characteristics of the rivers Mashavera and Foladauri" published in Georgian Technical university collected articles students 80-th International Scientific Conference page 78, 2012 year;

Clinoptilolite Use in Non-Irrigated Soils of Alazani Valley. /L.Shavliashvili,G.Kordzakhia, N.Naskidashvili, N.Tughushi, G.Kuchava, E.Bakradze/ - Georgia Chemical Journal, Vol.12, № 2, Tbilisi, p.186-188, 2012;

Co-Author: of Study towards the Development of a WWF Freshwater Strategy for the South Caucasus Region addressing Armenia, Azerbaijan and Georgia 2013;

GEORGIAN MAJOR TRANSBOUNDARY RIVERS ECO-BIO-CHEMICAL CONDITIONS AND THEIR CLASSIFICATION. N.BUACHIDZE, L. INTSKIRVELI, G. KUCHAVA, E. BAKRADZE, N.BEGLARASHVILI, L.GVERDTSITELI. TRANSACTIONS OF THE INSTITUTE OF HYDROMETEOROLOGY AT THE GEORGIAN TECHNICAL UNIVERSITY vol. №119, p.238-243 **2013**;

THE CHEMICAL COMPOSITION OF AN ARTIFICIAL RESERVOIR IN SALINE SOILS OF ALAZANI VALLEY./Shavliashvili L.W., Kordzakhia G.I., Kuchava G.P., Buachidze N.S., Bakradze E.M., Talakvadze V.V./Transactions of the Institute of Hydrometeorology, Georgian Technical University. -2013. -V.119. -pp.253-256 **2013**;

Alazani field of artificial reservoirs chemical composition of the soils / L. Shavliashvili, G. Kordzakhia, G. Kuchava, N.Buachidze, E.Bakradze, V.Talakivadze / - Hydro-meteorology Institute of Zoology, the anniversary edition, Georgia vs. .119, p .. 285-289, **2013**;

The overall ecological status of the water quality of rivers Mashavera, Khrami and Debed / E.Bakradze, G.Kuchava, M.Arabidze, N.buachidze, I.Kordzaia, L.Papachashvili / Georgian Engineering News N3, page 38- 40, **2013**.

International Scientific Journal ‘‘ANNALS OF AGRARIAN SCIENCE’’ Use of Klinoptilolith in Agriculture L.Shavliashvili, G. Kordzakhia, N. Naskidashvili, N. Tugushi, G. Kuchava, E. Bakradze – page 36-28, vol. 11, No.3 -2013

Характеристики загрязнения прибрежной зоны Черного моря Грузии в 2011 году, Арабидзе М.А., Кучава Г.П., Бакрадзе Э.М., Барамидзе И.Н. Национальное Агентство по Окружающей Среде, Министерство Охраны Окружающей Среды и Природных Ресурсов Грузии - в печати 2013

Ежегодный отчет глава - ЧЕРНОЕ МОРЕ Коршенко А.Н, Кочетков В.В., Панченко А.В., Любимцев А.Л., Клименко Н.П., Шибаева С.А., Мезенцева И.В., Коновалов С.К., Кондратьев С.И., Троценко Б.Г., Щерева Г., Арабидзе М.А., Барамидзе И.Н., Кучава Г.П., Бакрадзе Э.М. - в печати 2013

Technical University of Georgia, International Scientific - Technical Conference on Current Problems of Hydrometeorology and ecology, Alazani field of artificial reservoirs chemical composition of the soils / L. Shavliashvili, G. Kordzakhia, G. Kuchava, N.Buachidze, E.Bakradze, V.Talakivadze / May 28-30, 2013, Tbilisi.

Tbilisi State University Works N5 [84] migration of the easily soluble salts in The Alazani Valley soils in conjunction with climate / L. Shavliashvili, G. Kordzakhia, N.Tughushi, G. Kuchava, E. Bakradze / p. :189-193, 2013.

International Conference "Modern Problems of Geography" migration of the easily soluble salts in The Alazani Valley soils in conjunction with climate Tbilisi State University, November 7-9, 2013

Co-author of the book -" Problems of Ecology", Tbilisi 2014year.

Determination of water quality of the Kura River Basin Autors: N. Buachidze, I. Intskirveli, G. Kuchava, E. Bakradze. – The Georgian Nature researcher's Union " Orqisi ". N1, 2014 year.

Determination of Agricultural crops Productivity by Squares Method – L. Shavliashvili, G. Kordzakhia, E.Elizbarashvili, G. Kuchava, E. Bakradze / Reports presented at the scientific Conference Dedicated to the 80th Anniversary of M. Nodia Institute of Geophysics. Advanced Problems in Geophysics, International Conference, Tbilisi page 125-128, 2014.

L.Shavliashvili, G.Kordzakhia, E.Elizbarashvili, G.Kuchava, E. Bakradze Determination of Agricultural crops Productivity by squares Method Institute of Geophysics "Advanced problems in Geophysics Tbilisi p.125-128 2014.

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