

Georgian National Academy of Sciences

Tbilisi State University Petre Melikishvili Institute of Physical and Organic Chemistry



Personal Data (CV)

Surname	Tsitsishvili	Name	Vladimer
Address (work, home)	5, A.Politkovskaia str., Tbilisi Petre Melikishvili Institute of Physical and Organic Chemistry Apt. 174; 2, Dm Uznadze str., Tbilisi	Date and place of birth	17.03.1947 Tbilisi
Citizenship	Georgia	Telephones	+995(32) 295 61 26 (home) Office: +995(32) 254 15 68 Mob: +995(599) 98 81 98
E-mail	v.tsitsishvili@gmail.com		

Education

Education	Institution	Time of study
Secondary	Tbilisi Public School #41	1954-1965
Higher	Tbilisi State University, Faculty of Physics, specialty "Experimental Physics", certificate C No 436382	1965-1970
Postgraduate ship, work for doctor's thesis	Institute of Elementorganic Compounds (Moscow), USSR Academy of Sciences	1971-1973
	USA Environmental Protection Agency, course in "The Principles of Environmental Assesment"	2000

Knowledge of Languages

Foreign languages	Level of mastery (free, medium, with help of dictionary)
Russian	Free
English	Medium
German	with help of dictionary

Scientific or Academic Degree and Rank

	Powered by name	Date of conferment
Candidates Dissertation	Study of molecular dynamics and structure in a system dextran-water by pulse NMR methods, specialty "Physics of magnetic phenomena"	21.04.1976
Doctoral Dissertation	Nuclear magnetic relaxation in heterodynamical systems, specialty "Physical chemistry"	17.07.1988
Corresponding Member of the Academy	Membership in the Georgian National Academy of Sciences, Department of Chemistry and Chemical Technology	28.12.2001
Member of the Academy		20.06.2019

Work Experience

Date	Institution	Position
2018 to date	Petre Melikishvili Institute of Physical and Organic Chemistry at Tbilisi State University	Head of Scientific Council, Chief Scientific Researcher
2006-2017	Petre Melikishvili Institute of Physical and Organic Chemistry	Director
1990-2006	P.Melikishvili Institute of Physical and Organic Chemistry of Georgian Academy of Sciences	Head of Lab of Physical Chemistry
1978-1990	I.Kutateladze Institute of Pharmacochimistry of Georgian Academy of Sciences	Head of Republic Center of Nuclear Magnetic Resonance Spectroscopy
1970-1978	Institute of Cybernetics of Georgian Academy of Sciences	Researcher at Department of Chemical Cybernetics

Teaching Activity

Date	Institution	Position
1991-2005	Tbilisi State University	Professor at Department of Physical Chemistry, a course of lectures on Quantum Chemistry
1996-2006	International Black Sea University	Professor, a course of lectures on General Chemistry

Work Abroad

Form of work	Date	Place and Institution
Delivering a lecture course at a foreign higher educational institution	March – April 1993	UK – Manchester Metropolitan University, Faculty of Science & Engineering, University of Edinburgh
Long-term mission to research institutions	February – May 1981 February – March 1983	Germany – Central Institute of Physical Chemistry (Berlin), Faculty of Physics of Leipzig University
	March – May 1993	UK – Davy-Faraday Lab (London)

Sphere of Scientific Interests

Physical Chemistry:
Application of modern physical and mathematical approaches in theoretical chemistry;
Study of structure and properties of inorganic and organic, including biologically active compounds by nuclear magnetic resonance, IR, and other spectroscopic methods;
Synthesis, study, and evaluation of application possibilities of porous materials with molecular-sieve, sorption, ion exchange, and catalytic properties;
Physical-chemical ecology: environmental impact assesment of energetical, industrial, transport, and other projects, elaboration of mitigation measures and response strategies

Publications

Total number of publications – 475 (1972 – November 2019)

Monograph

Year	
2018	Vladimer Tsitsishvili, Mzia Tsitsagi, Imeda Rubashvili, Ketevan Ebralidze. Extraction of Valuable Products from Agro-Industrial Waste Materials. Lambert Academic Publishing, ISBN 978-613-9-90696-3, 90 p. https://www.researchgate.net/publication/331471292

Publications in high IF editions & indexed in CrossRef, Google Scholar, etc. from 2008	
1-2.	G.Tsitsishvili, V.Tsitsishvili, N.Dolaberidze, M.Alelishvili, M.Suladze. Natural Zeolites: Potential Application (https://www.researchgate.net/publication/324438583). V.Tsitsishvili, G.Tsitsishvili, N.Dolaberidze, M.Alelishvili, D.Chipashvili, G.Tsintsikaladze, G.Sturua, M.Nijaradze, N.Gigolashvili, N.Mirdzveli. Characterization of Georgian Natural Zeolites (https://www.researchgate.net/publication/324438601). In: <i>Compounds and Materials with Specific Properties</i> , New-York: Nova Science Publishers, 2008, pp. 115-131.
3.	Г.В.Цицишвили, В.Г.Цицишвили. Пористость и топология цеолитных структур. ХФТП (Украина), 2011, т. 2, № 3, с. 329-331.
4.	A.Bozhadze, V.Mshvildadze, V.Vachnadze, V.Tsitsishvili, A.Bakuridze. Analytical Studies of (+)Chelidonine, Protopine, and l-Stilopine in <i>Chelidonium majus</i> Growing in Georgia Using High-Performance Liquid Chromatography. <i>Chem. Nat. Comp.</i> , 2011, v. 47, No 3, p. 477-480. https://www.researchgate.net/publication/251414058
5-7.	Ts.Ramishvili, V.Tsitsishvili. Short Dictionary on Nanochemistry and Nanotechnology. <i>Nano Studies</i> , Part I – 2011, v. 3, p. 115-150 https://www.researchgate.net/publication/286061120 ; Part III – 2013, v. 8, p. 231-252 https://www.researchgate.net/publication/269517802 ; Part IV – 2014. V, 10, p. 149-162. https://www.researchgate.net/publication/286060952
8.	I.Rubashvili, V.Tsitsishvili. Quantitative Estimation of Volatile N-Nitrosamines in Tobacco Smoke Using Validated GC-MS Method and its Uncertainty Evaluation, Illustrated by Determination of N-Nitrosomethylethylamine. <i>Bull. Georgian Nat. Acad. Sci.</i> , 2015, v. 9, no 1, p. 85-92. http://science.org.ge/old/moambe/vol9-1.html
9.	L.Eprikashvili, V.Tsitsishvili, M.Zautashvili, T.Kordzakhia, M.Dzagania, N.Pirtskhalava. Influence of the Soil-Free Substrate on the Biometric Parameters of Bean and Barley Germination. <i>Bull. Georgian Nat. Acad. Sci.</i> , 2015, v. 9, no 1, p. 139-144. http://science.org.ge/old/moambe/vol9-1.html
10.	A.Dolidze, I.Mikadze, N.Kavtaradze, T.Uchaneishvili, L.Dolidze, V.Tsitsishvili. Research of Long-Term Pollution by Petroleum Products with GC/MS. <i>Bull. Georgian Nat. Acad. Sci.</i> , 2015, v. 9, no 2, p. 79-83. http://science.org.ge/old/moambe/vol9-2.html
11.	I.Beshkenadze, S.Urotadze, V.Tsitsishvili, N.Zhorzholiani, M.Gogaladze, G.Begheluri. Application of Methionine-Containing Complexes and their Composites with Clinoptilolite in Poultry Nutrition. <i>Bull. Georgian Nat. Acad. Sci.</i> , 2015, v. 9, no 2, p. 110-115. http://science.org.ge/old/moambe/vol9-2.html
12.	L.Eprikashvili, M.Zautashvili, T.Kordzakhia, N.Pirtskhalava, M.Dzagania, I.Rubashvili, V.Tsitsishvili. Intensification of bioproductivity of agricultural cultures by adding natural zeolites and brown coal into soils. <i>Annals of Agrarian Science</i> (2016), http://dx.doi.org/10.1016/j.aasci.2016.05.004
13.	S.Urotadze, V.Tsitsishvili, N.Osipova, T.Kvernadze. Laumontite – Natural Zeolite Mineral of Georgia. <i>Bull. Georgian Nat. Acad. Sci.</i> , 2016 v. 10, # 1, p. 32-37. http://science.org.ge/bnas/t10-n1/05-Urotadze.pdf
14.	Ts.Ramishvili, V.Tsitsishvili, R.Chedia, E.Sanaia, V.Gabunia, N.Kokiashvili. Preparation of Ultradispersed Crystallites of Modified Natural Clinoptilolite with the Use of Ultrasound and Its Application as a Catalysts in the Synthesis of Methyl Salicylate. <i>American Journal of Nano Research and Applications</i> , 2017, v. 5, No 3-1, p. 26-32. https://www.researchgate.net/publication/313478939
15.	Ts.M.Ramishvili, V.G.Tsitsishvili, N.G.Kokiashvili, V.M.Gabunia, N.M.Inanashvili. Modified Forms of Natural Zeolites – Clinoptilolite and Heulandite as an Effective Catalysts for Synthesis of Acetylsalicylic Acid. <i>Asian Journal of Science and Technology</i> , 2017, v. 08, is. 06, p. 4985-4995. https://www.researchgate.net/publication/332157470
16.	N.Khetsuriani, K.Karchkhadze, V.Tsitsishvili, K.Goderdzishvili. Production of Biodiesel Using Supercritical Fluids Technology. <i>Chemical Problems</i> , 2017, no 1, p. 21-25. https://www.researchgate.net/publication/330040627
17.	N.Khetsuriani, V.Tsitsishvili, E.Topuria, A.Mikaia. Study of Polycyclic Aromatic Hydrocarbons of Norio Oil by GC-MS Method. <i>Bull. Georgian Nat. Acad. Sci.</i> , 2017, v. 11, no 1, p. 52-57. http://science.org.ge/bnas/t11-n1/08_Khetsuriani.pdf
18.	V.Tsitsishvili, I.Ivanova, Ts.Ramishvili, N.Kokiashvili, T.Bukia, I.Dobryakova, G.Kurtsikidze. Catalytic Conversion of Linalool on Micro-Mesoporous BEA-type Zeolite. <i>Bull. Georgian Nat. Acad. Sci.</i> , 2017, v. 11, no 3, p. 79-87. http://science.org.ge/bnas/t11-n3/10_Tsitsishvili.pdf
19.	V.Tsitsishvili, N.Dolaberidze, S.Urotadze, M.Alelishvili, N.Mirdzveli, M.Nijaradze. Ion Exchange Properties of Georgian Natural Zeolites. <i>Chemistry Journal of Moldova</i> , 2017, v. 12, No 1, p. 95-101. DOI: http://dx.doi.org/10.19261/cjm.2017.413
20.	N.M.Dolaberidze, V.G.Tsitsishvili, N.A.Mirdzveli, M.O.Nijaradze. Synthesis of LTA Type Zeolites from Georgian Clinoptilolite. <i>Him. Fiz. Tehnol. Poverhni</i> , 2017, v. 8, #3, p. 346-352. http://dx.doi.org/10.15407/hftp08.03.346
21.	I.Rubashvili, M.Tsitsagi, K.Ebralidze, V.Tsitsishvili, L.Eprikashvili, M.Chkhaidze, M.Zautashvili. Extraction and

	Analysis of the Major Carotenoids of Agro-Industrial Waste Materials Using Sequential Extraction Techniques and High Performance Liquid Chromatography. Eurasian Journal of Analytical Chemistry, 2018, v. 13, no 3, p. 1-14. https://doi.org/10.29333/ejac/82931
22.	M.Tsitsagi, M.Chkhaidze, K.Ebralidze, I.Rubashvili, V.Tsitsishvili. Sequential Extraction of Bioactive Compounds from Tangerine (Citrus Unshiu) Peel. Annals of Agrarian Science, 2018, v. 16, no 2, p. 236-241. https://doi.org/10.1016/j.aasci.2018.02.007
23.	V.Tsitsishvili, N.Zhorzholiani, K.Amirkhanashvili. Synthesis and Crystal Structure of Trimecaine Hexachlorostannate(IV) Monohydrate. International Journal of Scientific Engineering and Science, 2018, v. 2, is. 2, p. 42-46. https://www.academia.edu/36284704
24.	V.Tsitsishvili, N.Osipova, T.Kvernadze, N.Burkiashvili. Combined Filter for Water Treatment. Elixir Org.Chem., 2018, v. 117, p. 50342-50345. https://www.researchgate.net/publication/324137469
25.	G.Tsitskaladze, V.Tsitsishvili, Sh.Melikidze, T.Sharashenidze, M.Zautashvili, M.Burjanadze, P.Tsitskaladze. Chemical-Technological Characterization of Some Georgian Medieval Arch Bridge Mortars. Elixir Materials Science, 2018, v. 117, p. 50420-50424. https://www.researchgate.net/publication/324746299
26.	I.Rubashvili, N.Karukhnishvili, Kh.Makharadze, V.Tsitsishvili. Development and Validation of Quantitative Determination and Sampling Methods for Acetaminophen Residues on Pharmaceutical Equipment Surfaces. Bull. Georgian Nat. Acad. Sci., 2018, v. 12, no 1, p. 107-112. http://science.org.ge/bnas/t12-n1/17_Rubashvili.pdf
27.	Ts.M.Ramishvili, V.G.Tsitsishvili, I.I.Ivanova, T.J.Bukia, G.O.Kurtsikidze, N.G.Kokiashvili. Catalytic Conversion of Geraniol on Micro- and Micro-Mesoporous Beta-Type Zeolite. International Journal of Recent Scientific Research, 2018, v. 9, is. 3, p. 25454-25460. DOI: http://dx.doi.org/10.24327/ijrsr.2018.0903.1861
28.	N.M.Dolaberidze, M.O.Nijaradze, N.A.Mirdzveli, V.G.Tsitsishvili. Synthesis of Ferrierite from Georgian Perlite. New Materials, Compounds & Applications, 2018, v. 2, No 2, p. 139-145. https://www.researchgate.net/publication/330169168
29.	N.M.Dolaberidze, V.G.Tsitsishvili, B.T.Khutsishvili, N.A.Mirdzveli, M.O.Nijaradze, Z.G.Amiridze, M.N.Burlanadze. Silver- and Zinc-Containing Bactericidal Phillipsites. New Materials, Compounds and Applications, 2018, v. 2, No 3, p. 247-260. https://www.researchgate.net/publication/330168405
30.	N.Khetsuriani, E.Topuria, M.Chkhaidze, V.Tsitsishvili. Polycycloalkane Hydrocarbon in Taribani Oil. World Science, 2018, v. 9(37), p. 33-41. https://doi.org/10.31435/rsglobal_ws/30092018/6132
31.	M.Tsitsagi, M.Chkhaidze, K.Ebralidze, I.Rubashvili, V.Tsitsishvili. Sequential Extraction of Bioactive Compounds from Tangerine (Citrus Unshiu) Peel. Annals of Agrarian Science, 2018, 16(2): 236-241. https://doi.org/10.1016/j.aasci.2018.02.007
32.	V.Tsitsishvili, Ts.Ramishvili, I.Ivanova, I.Dobryakova, T.Bukia, N.Kokiashvili. Formation of Long-Chain and Macrocyclic Compounds During Catalytic Conversion of Geraniol on Micro- and Micro-Mesoporous BEA-type Zeolite. Bull. Georgian Nat. Acad. Sci., 2018, v. 12, no.3, p. 62-68. http://science.org.ge/bnas/t12-n3/10_Tsitsishvili.pdf
33.	N.G.Barbakadze, V.G.Tsitsishvili, T.V.Korkia, N.V.Jalabadze, R.V.Chedia. Synthesis of Graphene Oxide from Industrial Wastes. European Chemical Bulletin, 2018, 7(11): 329-333. https://doi.org/10.17628/ecb.2018.7.329-333
34.	Ts. Ramishvili, V. Tsitsishvili, I. Ivanova, N. Kokiashvili, T. Bukia, G. Kurtsikidze. Synergic Actions of Beta-type Zeolites and Ultrasonic Irradiation in the Conversion of Geraniol. Asian Journal of Chemistry, 2019, 31(2): 438-444. https://doi.org/10.14233/ajchem.2019.21670
35.	I.Rubashvili, M.Tsitsagi, V.Tsitsishvili, T.Kordzakhia, K.Ebralidze, M.Buzariashvili, M.Khachidze. Sequential Extraction and HPLC Analysis of Total Anthocyanins of Grape Skin. The Chemist, Journal of the American Institute of Chemists, 2019, 91(2): 33-41. https://www.researchgate.net/publication/331471614
36.	V.Tsitsishvili, N.Dolaberidze, N.Mirdzveli, M.Nijaradze, Z.Amiridze, N.Sinauridze, T.Kapanadze, K.Virsaladze. Transformation of Natural Analcime and Phillipsite during their Hydrothermal Recrystallization into Zeolites A and X. International Journal of Advanced Research, 2019, 7(2): 219-230, http://dx.doi.org/10.21474/IJAR01/8479
37.	V.Tsitsishvili, N.Dolaberidze, N.Mirdzveli, M.Nijaradze, Z.Amiridze, V.Gabunia, G.Tsitskaladze. Hydrothermal Transformation of Natural Analcime and Phillipsite. Bulletin of Georgian National Academy of Sciences, 2019, 13(1): 66-73. http://science.org.ge/bnas/t13-n1/09_Tsitsishvili.pdf
38.	Ts.Ramishvili, V.Tsitsishvili, I.Ivanova, T.Bukia, N.Kokiashvili, G.Kurtsikidze, I.Dobryakova. Catalytic conversion of linalool on micro- and micro-mesoporous BEA-type zeolites under microwaves irradiation. Bulletin of Georgian National Academy of Sciences, 2019, 13(3): 54-63. http://science.org.ge/bnas/t13-n3/09_Ramishvili.pdf

Methodological Literature

Years	
2010	V.Tsitsishvili, T.Lobjanidze, M.Gverdsiteli. Application of the theory of symmetry in chemistry. Tbilisi: "Universal" (in Georgian)

Participation in Scientific Symposiums, Conferences... (from 2008)

	Time and place of the forum	Contribution (if reported not in English) with DOI of abstract or presentation
1.	International Conference "The Importance of Ecology and Nature Protection in the Sustainable Development Perspectives", 20-21.11.2008, Erevan, Armenia	1. Sorbents for Cleaning Water Polluted with Monocyclic Organic Toxicants 2. Utilization of Polymeric Waste Materials
2.	7 th International Mamedaliev conference on oil chemistry, 21-25 September 2009, Baku , Azerbaijan	The biological markers in some Georgian crude oils (О биологических маркерах в некоторых грузинских нефтях)
3.	Scientific Conference "Natural and Synthetic Biologically Active Compounds", 30 March 2010, Tbilisi	Biological activity of natural and synthetic zeolites and their use in medicine (ბუნებრივი და სინთეზური ცეოლითების ბიოლოგიური აქტივობა და მათი გამოყენება მედიცინაში) https://doi.org/10.13140/RG.2.2.13245.10721
4.	International Conference "Batumi – Spring – 2010", 7-9 May 2010, Batumi	Zeolite Medical Preparations https://doi.org/10.13140/RG.2.2.13603.09761
5.	International Symposium devoted to the 80 th anniversary of Academician O.O.Chuiko "Modern Problems of Surface Chemistry and Physics", 18-21 May 2010, Kyiv , Ukraine	Use of Nano-Modified Clinoptilolite as a Addition to Building Materials; Some Physical and Chemical Characteristics of Scolecite http://dx.doi.org/10.13140/RG.2.2.33911.88481 ; Reception of Scintillating Material Powders by Modified Sol-Gel Method
6.	1 st International Conference "The Main Current Ecological Problems and Caucasus", 4-6.07. 2010, Tbilisi , Georgia	Green Chemistry and Heterogene Catalyse
7.	8 th International Conference on the Occurrence, Properties, and Utilization of Natural Zeolites "Zeolite 2010", 12-15.07. 2010, Sofia , Bulgaria	Use of Nanomodified Natural Zeolites as Additions to Building Materials https://www.researchgate.net/publication/331865105 Application of Laumontite for Wheat Crop Increase https://www.researchgate.net/publication/331865249
8.	2 nd International conference "Healph and Ecology", 3-5 September 2010, Batumi	Zeolitic drugs (ცეოლითური სამედიცინო პრეპარატები)
9.	2 nd International Caucasian Symposium on Polymers and Advanced Materials, 7-10 September 2010, Tbilisi	New Fine Dispersion Zeolite with Clinoptilolite Structure
10.	International scientific-technical conference "Environment protection and sustainable development", 10-11 November 2010, Tbilisi	Ecological Aspects of Zeolite Application (ცეოლითების გამოყენების ეკოლოგიური ასპექტები) https://www.researchgate.net/publication/331968026
11.	3 rd Conference in Applied Chemistry, Dedicated to the 100 th Anniversary of R.Agladze, Tbilisi , 2011	Economical and Ecological Aspects of Zeolite Application https://doi.org/10.13140/RG.2.2.17010.96967
12.	International Symposium "Modern Problems of Surface Chemistry and Physics", 11-13.05.2011, Kiev , Ukraine	Structure of New Zeolite Nanomaterials and Possibilities of their Application in Gas Chromatography
13.	8 th International Mamedaliev conference on oil chemistry, 2-5.10.2012, Baku , Azerbaijan	1. Separation of hydrocarbons and sulfur compounds in the medium and high-boiling petroleum fractions (Разделение углеводородов и сернистых соединений в средних и высококипящих фракциях нефтей); 2. Preparation of fuel briquettes from carbon-containing waste raw material resources of Georgia (Получение топливных

		брикетов из углерод-содержащих отходов сырьевых ресурсов Грузии)
14.	International conference on oil chemistry dedicated to 100 th anniversary of academician L.Melikadze, 1-2 November 2012, Tbilisi	<ol style="list-style-type: none"> 1. Study of active centers of decationexchanged zeolites in the oxidative conversion of methanol (Изучение активных центров декационированных цеолитов в окислительном превращении метанола); 2. Separation of aromatic hydrocarbons and sulfur compounds in the medium and high-boiling petroleum fractions (Разделение ароматических углеводородов и сернистых соединений в средних и высококипящих фракциях нефтей); 3. Study of oil deposits of Georgia (Исследование нефтей месторождений Грузии) 4. The positive effect of natural analcime on soil contaminated with waste oil products (ნარჩენებით დაბინძურებულ ნიადაგზე ბუნებრივი ანალციმის ზემოქმედების დადებითი ეფექტი) https://doi.org/10.13140/RG.2.2.12816.66565
15.	Scientific-practical conference “Advanced technologies and environmental protection”, 2012, Kutaisi	<ol style="list-style-type: none"> 1. Application of nanozeolite materials like sorbents and ion exchangers; 2. Reaction of condensation of 4-hydroxycoumarin with some aromatic aldehydes
16.	International scientific-practical conference “Advanced technologies and modern materials”, 6-7 January 2013, Kutaisi	Possibility of creation of zeolite medical preparations
17.	17 th International Zeolite Conference “Zeolites and porous materials: bridging the gap between nanoscience and technology”, 7-12 July 2013, Moscow , Russia	Synthesis of acetylsalicylic acid without solvent on modified form of natural zeolite clinoptilolite http://izc17.com/wp-content/uploads/2013/05/Final_programme.pdf
18.	All-Russian Conference on fundamental issues of adsorption with the participation of foreign scholars, 9-13 September, 2013, Tver , Russia	Chemical modification of clinoptilolite as a method of obtaining new zeolite materials (Химическое модифицирование клиноптилолита как метод получения новых цеолитных материалов)
19.	3 rd All-Russian Scientific Conference (with international participation) “Successes of Synthesis and Complexation”, 21-25 April 2014, Moscow , Russia	Hydrothermal synthesis of highly dispersed zeolite materials (Гидротермальный синтез тонкодисперсных цеолитовых материалов) https://www.researchgate.net/publication/324075052
20.	10 th International Mass Spectrometry Conference on Petrochemistry and Environmental PETROMASS 2014, 1-4 September 2014, Tbilisi	<ol style="list-style-type: none"> 1. Georgian Crude Oil and Bitumen Deposits https://doi.org/10.13140/RG.2.2.14074.95682 2. Past pollution with petroleum products – one of the major environmental problems in Georgia https://doi.org/10.13140/RG.2.2.22882.99529
21.	3 rd International Conference “Nanotechnologies” Nano-2014, 20-24 October 2014, Tbilisi	<ol style="list-style-type: none"> 1. Creation Of Bactericidal Nano-Zeolite Sorbent https://www.researchgate.net/publication/331976179 2. English–German–Russian–Georgian Electronic Dictionary (Glossary) in Nanochemistry, Nanophysics and Nanotechnology https://www.researchgate.net/publication/331976366
22.	2 nd All-Russian Conference with International Participation “Actual Problems of Adsorption Theory, Porosity and Selectivity”. 13-17 April 2015, Moscow , Russia	<ol style="list-style-type: none"> 1. Novel nanoporous material on the basis of natural clinoptilolite (Новый нанопористый материал на основе природного клиноптилолита); 2. Hydrothermal transformation of clinoptilolite to obtain fine-dispersed zeolite materials; 3. Ion-exchange properties and selectivity of natural zeolite laumontite towards cations of bivalent metals (Ионообменные свойства и селективность природного цеолита – ломонтита относительно катионов двухвалентных металлов)

23.	International Scientific & Practical Conference “Innovative technologies for the production of food products of functional purpose“, 15 April 2015, Kutaisi	1. Zeolite filler for food-wrapping paper (კვების პროდუქტების შესაფუთი ქაღალდის ცეოლითური შემაკვებელი); 2. Technology for production of bactericid zeolite nanomaterials (ბაქტერიციდული ცეოლითური ნანომასალების მომზადების ტექნოლოგია)
24.	3 rd International Conference on Pharmaceutical Sciences “Looking towards the future, honoring the past“, 29-31 May 2015, Tbilisi	Applications of Zeolites in Medicine https://www.researchgate.net/publication/331975794
25.	International Nanotechnology Conference “NANO TECH FRANCE 2016” – 1-3.06.2016, Paris , France	Deoxygenation of Graphene Oxide by Metalorganic Compounds
26.	International Scientific Conference “Modern Researches and Prospects of their Use in Chemistry, Chemical Engineering and Related Fields“, 21-23.09.2016, Ureki , Georgia	1. New Generation Zeolitic Adsorbers https://doi.org/10.13140/RG.2.2.31586.17609 2. Modified Graphene Oxide by Alumoorganic Compounds https://doi.org/10.13140/RG.2.2.20709.65764 3. The Biosphere and Plant Chemical Pollution 4. Production of Biodizel Using Supercritical Fluids Technology https://www.researchgate.net/publication/331773059
27.	9 th International Mamedaliev conference on oil chemistry, 3-5.10.2016, Baku , Azerbaijan	1. MOR type synthetic zeolites (Синтетические цеолиты типа морденита) https://doi.org/10.13140/RG.2.2.16486.68160 2. Polycyclic aromatic hydrocarbons of Norio oil (Высокомолекулярные ароматические углеводороды Норийской нефти) https://doi.org/10.13140/RG.2.2.27182.15686
28.	3 rd Scientific Conference “Natural and Synthetic Biologically Active Compounds“, October 23-24 2016, Tbilisi	1. Detoxication properties of zeolites (ცეოლიტების დეტოქსიკაციური თვისებები) https://doi.org/10.13140/RG.2.2.25569.97120 ; 2. Synthesis of Chromium Chelates with Biologically Active Ligands https://doi.org/10.13140/RG.2.2.10240.28162 ; 3. Synthesis of LTA Zeolites with Secondary Porosity https://doi.org/10.13140/RG.2.2.11020.97925 ; 4. Extraction of Platyphyllin by Supercritical CO ₂ https://doi.org/10.13140/RG.2.2.30131.27685
29.	6 th International Conference “Ecological & Environmental Chemistry – 2017“, March 2-3 2017, Chisinau , Moldova	1. Ion Exchange Properties of Georgian Natural Zeolites https://doi.org/10.13140/RG.2.2.19441.53603 ; 2. Sequential Supercritical Fluid Extractions of Bioactive Compounds from Tangerine and Orange Peel
30.	16 th All-Russian Symposium with international participation “Actual problems of adsorption theory, porosity and sorption selectivity“, 22-26 May 2017, Moscow , Russia	1. Formation of finely dispersed NaA type zeolite during recrystallization of natural analcime (Образование тонкодисперсного цеолита типа NaA при перекристаллизации природного анальцима); 2. Possibility of Use New Zeolite Materials in Maxillofacial Surgery https://www.researchgate.net/publication/331936478
31.	Ukrainian Conference with International Partipation “Chemistry, Physics and Technology of Surface“, 24-25 May 2017, Kyiv , Ukraine	Preparation of Fine Dispersed Sodalite by Hydrothermal Modification of Natural Clinoptilolite
32.	2 nd All-Russia Conference (with international partipation) “Actual problems of adsorption and catalysis theory“, 28-30 June 2017, Ples , Russia	Phase transitions during crystallization of natural clinoptilolite (Фазовые переходы при кристаллизации природного клиноптилолита) https://www.researchgate.net/publication/324313625

33.	23 rd International Symposium on Separation Sciences (ISSS 2017), 11-12 September 2017, Vienna , Austria	Extraction and Analysis of Carotenoids and Anthocyanins of Agro-Industrial Waste Materials
34.	9 th Annual Pharmaceutical Chemical Analysis Congress, 2-3 October 2017, Vienna , Austria	Quantitative determination of natural colorants of agro-industrial waste materials using supersritical extraction technique and high performance liquid chromatography
35.	International Scientific Conference “Chemistry of coordinational compounds: actual problems of analytical chemistry”, dedicated to the 85 th Anniversary of the Academician Rafiga Alirza Gizi Aliyeva, 16-17 November 2017, Baku , Azerbaijan	1. Zeolite Bactericidal Sorbents https://www.researchgate.net/publication/331802568 ; 2. Synthesis of Finely Dispersed Ferrierite from Georgian Perlite https://www.researchgate.net/publication/331802658 ; 3. New Zeolite Materials for Papermaking https://www.researchgate.net/publication/324438483 ; 4. Coordinational compounds of biometals with anesthetics (Координационные соединения биометаллов с анестезионными препаратами) https://www.researchgate.net/publication/324648399 ; 5. Spectrophotometry study of complex formation in system iron(III) – trimecaine (Спектрофотометрическое изучение комплексообразования в системе железо(III)-тримекаин)
36.	International Scientific-Practical Internet Conference “Modern Pharmacy – Science & Practice”, 5-20 December 2017, Kutaisi : Akaki Tsereteli State University, Faculty of Medicine	1. Synthetic Zeolites for Production of Bactericidal Sorbents https://www.researchgate.net/publication/331639096 ; 2. Utilization of Agro-Industrial Wastes by Modern Extraction Methods https://www.researchgate.net/publication/331802854 ; 3. Synthesis and Biological Potential of Coordination Compounds with Anesthetic Preparation https://www.researchgate.net/publication/331802864
37.	1 st South Caucasus Food Analytical Conference. 29-30 March 2018, Expo Georgia, Tbilisi	Sequential Extraction and Analysis of Bioactive Compounds from Tangerine (Citrus Unshiu) Peel https://doi.org/10.13140/RG.2.2.36042.62409
38.	XI International Mass Spectrometry Conference on Petrochemistry, Environmental and Food Chemistry “Petromass 2018”, April 15-18, 2018, Bled , Slovenia	1. Polycycloalcan Hydrocarbons in Taribani Oil https://doi.org/10.13140/RG.2.2.25242.29127 ; 2. GC-MS study of catalytic conversion of terpene alcohols on micro-mesoporous zeolites https://doi.org/10.13140/RG.2.2.23249.99684 ; 3. Development of Bioenergy in Georgia
39.	All-Russia Symposium with international participation “Physico-chemical problems of adsorption in nanoporous materials”, 21-25 May 2018, Moscow , Russia	1. Synthesis of Zeolites from Georgian Aluminum Silicates https://www.researchgate.net/publication/331951468 ; 2. Coordination Compounds of Thiocyanate Transition Metals with Lidocaine https://www.researchgate.net/publication/331951584
40.	Ukrainian conference with international participation „Chemistry, Physics and Technology Of Surface”, 23-24 May, 2018, Kyiv , Ukraine	1. Preparation of SOD Type Zeolite from Perlite; 2. Tetra-Acid Complexes of Trimecaine
41.	3 rd All-Russia Conference (with international participation) “Actual problems of theory for heterogeneous catalysts and adsorbents”, 26-30 June 2018, Ivanovo , Russia	1. Synthesis of NaX Zeolite from Natural Phillipsite https://www.researchgate.net/publication/331872622 ; 2. Catalytic Conversion of Terpene Alcohols on Micro-Mesoporous Zeolites Beta https://www.researchgate.net/publication/331872444
42.	3 rd International Conference “Inorganic Materials	Synthesis of Zeolite Materials from Georgian Natural

	Science. Modern Technologies and Methods” IMS 2018, October 8-11, 2018, Tbilisi	Aluminum Silicates DOI: 10.13140/RG.2.2.22568.42241
43.	4 th Scientific Conference “Natural and Synthetic Biologically Active Compounds”, 22-23 October 2018, Tbilisi	1. Mineral Drugs; 2. Crystal Structure of Trymecaine and its Hexafluorostannate(IV) Monohydrate DOI: 10.13140/RG.2.2.16578.43200; 3. Development and validation of methods for determination and sampling of Lisinopril and Hydrochlorothiazide residues in the aim of validation of decontamination; 4. Some aspects of extracting biologically active compounds from citrus peel; 5. Evaluation of the effectiveness of the silicon-containing humic preparation; 6. Creation of High-Sorption and Detoxistic Zeolite Sorbents
44.	5 th International Conference “Nanotechnologies”, November 19-22, 2018, Tbilisi	Synthesis of Graphene Oxide from Industrial Wastes
45.	Ukrainian Conference with International participation “Chemistry, Physics and Technology of Surface”, 2019, 15-27 May, Kyiv, Ukraine	Bactericidal adsorbents obtained by ion exchange modification of natural phillipsite
46.	2 nd International Eurasian Conference on Biological and Chemical Sciences, 28-29 June 2019, Ankara, Turkey	1. Micro-mesoporous FAU type zeolite for catalytic applications. 2. Characterization of Georgian natural phillipsites 3. Bactericidal activity of metal-containing phillipsites 4. Recovery of commodities from agroindustrial waste using sequential stepwise extraction method
47.	4 th All-Russian (with international participation) scientific symposium “Actual problems of theory and practice of heterogeneous catalysts and adsorbents”, 1-2 July 2019, Ivanovo-Suzdal, Russia	Creating a New Zeolitic Filler Based on Georgian Clinoptilolite-Containing Tuff
48.	6 th International Caucasian Symposium on Polymers and Advanced Materials, ICSP & AM 6, 17-20 July, 2019, Batumi	1. Recrystallization of Georgian Natural Aluminosilicates 2. Improvement of Biodiesel Quality with Nano-Compositions 3. Modification of Georgian Natural Zeolites
49.	VI International Conference “Chemistry & Chemical Technology”, 23-27 September 2019, Erevan, Armenia	Formation of Target Gel and Crystallization of Zeolite NaX
50.	International Conference “Achievements and perspectives of modern chemistry” dedicated to the 60 th anniversary from the foundation of the Institute of Chemistry, 2019, 9-11 October, Chisinau, Republic of Moldova	1. Modification of natural analcime 2. Sequential extraction of valuable products from citrus and apple wastes 3. Crystal structure of bis(lidocaine) tetrathiocyanonickelate(ii) dihydrate 4. New carbon precursors for synthesis of graphene and its oxides 5. Biomarkers of Georgian Petroleum

Organizational Work (Holding Congresses and Conferences, Editorial Work in the last ten years)

Years	Name
	Holding scientific forums in Georgia
2012	International conference on oil chemistry dedicated to 100 th anniversary of academician L.Melikadze, Tbilisi
2014	10 th International Mass Spectrometry Conference on Petrochemistry and Environmental PETROMASS 2014, Tbilisi
2016	International Scientific Conference “Modern Researches and Prospects of their Use in Chemistry, Chemical Engineering and Related Fields“ 21-23.09.2016, Ureki, Georgia
2016, 2018	1 st , 2 nd , 3 rd and 4 th Scientific Conference “Natural and Synthetic Biologically Active Compounds”, Tbilisi
	Membership in Organizing / Editorial Committee of forums abroad
2009, 2012, 2016	7 th , 8 th and 9 th International Mamedaliev conferences on oil chemistry, Baku (Azerbaijan)

2010	International Symposium “Modern Problems of Surface Chemistry and Physics”, Kiev (the Ukraine)
2018	11 th International Mass Spectrometry Conference on Petrochemistry and Environmental and Food Chemistry “Petromass 2018”, Bled (Slovenia)
	Editorial work
From 2006	Proceedings of the Georgian National Academy of Sciences, chemical series – Deputy Editor, from 2012 - Editor
2011-2014	Collection of works of the Petre Melikishvili Institute of Physical and Organic Chemistry, Editor
From 2013	Journal „Известия высших учебных заведений. Химия и химическая технология“ – member of international editorial board
	Journal „Georgian International Journal of Science and Technology“ – member of editorial board
From 2014	Bulletin of the Georgian National Academy of Sciences – member of editorial board

Inventions (Authors Certificate, Patents)

Years	Name
2009	Georgian Patent for utility model GE U 2009 1542 Y “Method of Modifying of Zeolite” http://opac.sciencelib.ge/cgi-bin/koha/opac-detail.pl?biblionumber=21865
2012	Georgian Patent GE P 2012 5377 B “High efficiency protective, adaptability increasing, immunity stimulating therapeutic and prophylactic agent”
2017	Georgian Patent for utility model GE U 2017 1956 “Application of Chelate Zinc in Vermiculture”

Scientific grants

Years	Name
2017-2019	Georgian National Scientific Foundation project FR-217868 “New approaches in the synthesis of geraniol, nerol and citral”
2018-2019	Georgian National Scientific Foundation project FR-17_187 „Study of process of fine-dispersed zeolite crystal formation and scientific substantiation of possibility of creation of new materials”
2019-2020	Georgian National Scientific Foundation project FR-18-2600 --"Scientific feasibility of creating nanocrystalline bactericidal sorbents on the basis of Georgian natural zeolites and the study of corresponding mechanisms".

Awards and Prizes, Honorary Title

Date	Name of Awards, Prizes, Honorary Title
2005	A.Tvalchrelidze prize of the Georgian National Academy of Sciences
2013	Order of Honour
2018	G.Tsitsishvili prize of the Georgian National Academy of Sciences

Family Status

Married (Nina Tsitsishvili, born 1948), 2 children – Helena (born 1972), Giorgi (born 1976)
