

CURRICULUM VITAE

Ketevan Kupatadze Demirtas

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Ecological Chemistry, Chemistry; Didactic of Chemistry; History of chemistry;

Research Interests

1. Education

№	Years	Name of the University/Institute, Country	Academic Degree	Major / Specialty
1	1998-2003	Sulkhan-Saba Orbeliani Tbilisi State Pedagogical University	Doctor in Pedagogical sciences	The methodics of Chemistry teaching
2	1994-1996	Sulkhan-Saba Orbeliani Tbilisi State Pedagogical University	Post Graduate courses of General Professions	journalist
3	1993-1996	Sulkhan-Saba Orbeliani Tbilisi State Pedagogical University	Post graduate courses; Candidate in Pedagogical sciences	The methodics of Chemistry teaching
4	1988-1993	Sulkhan-Saba Orbeliani Tbilisi State Pedagogical University	Faculty of Natural Sciences/ Master	Chemistry and Biology

2. Work Experience

№	Years	Position	Department / Unit	Organization
1	2018 up today	Full Professor	Faculty of Natural Science and Engineering	Ilia State University
1	2013 - 2018	Associate Professor	Faculty of Natural Science and Engineering	Ilia State University
2	2007-2013	Assistant Professor	Faculty of Art and sciences	Ilia State University
3	2004-2007	The head Post-graduate Courses	Post-graduate Courses	Sulkhan-Saba Orbeliani Tbilisi State Pedagogical

				University/ <i>Ilia Chavchavadze State University</i>
4	2004-2007	Professor	Faculty of Natural Science	Sulkhan-Saba Orbeliani Tbilisi State Pedagogical University/ Ilia State University
5	1999-2004	Docent	Faculty of Natural Science	Faculty of Natural Science
6	1997-1999	Teacher	Faculty of Natural Science	Faculty of Natural Science

3. Participation in Research Projects (over the last 5 years)

№	Years	Position / Responsibility	Project Title	Donor Organization
1	2020-2024	Regional Co-director	NetwoRk for AlErting And managing publiC safety and resilience - REACT	NATO SPAS
2	2020-2023	Senior Researcher	PONTOS (Done with “Green Alternative”)/ Copernicus Assisted Environmental Monitoring Across the Black Sea Basin – PONTOS	Joint Operational Programme “BLACK SEA BASIN”
3	2013-2015	Project Regional Scientific Coordinator	WASTEnet – A Black Sea Network Promoting Integrated Natural Wastewater Treatment Systems	Joint Operational Programme “BLACK SEA BASIN 2007-2013”
4	2011-2012	Methodist in chemistry	Student Active Learning in Science	Tempus
5	2010	Project Scientific Coordinator	Popular lectures around Georgian schools	Rustaveli Foundation, GNSF.
6	2008-2009	Project Scientific Coordinator	Realization of Obviousness Principle in the Process of teaching Chemistry (<i>Synthesis of virtual Programs according Chemistry Course of Basic Schoosl</i>)	Rustaveli Foundation #007-08 ,
7	2001-2002	Methodist in chemistry	Virtual Biochemistry	Medical Styate University

4. List of Publications in the International Peer Reviewed Journals(over the last 5 years)*

№	Publication Title	Journal title, series, volume issue (publication date): page(s) or, book / monograph title, edition #, series publisher, city, year published
1	REVIEW OF AIR POLLUTION RESEARCH RESULTS ON THE EXAMPLE OF TBILIS	Southern Journal of Science, #36, 2023, p. 09-20
2	STUDY ON EUTROPHICATION CHANGE AND THEIR CONSEQUENCES IN PALIASTOMI LAKE	Journal Tchê Química, # V.20, #44, ISSN 2179-0302 pp.450-457. 2023 https://www.tchequimica.com/Periodico44.pdf
3	Investigation of Redox Processes in Paliastomi Lake https://www.igi-global.com/book/environmental-technological-aspects-redox-processes/322794	Handbook of Research on Environmental and Technological Aspects of Redox Processes. Chapter 18. 2023. ISBN13: 9798369305126 ISBN10: N/A EISBN13: 9798369305140
4	Water and Society in Georgia From Historical Perspectives	Handbook of Research on Water Science and Society, IGI Global Publishing House, Author of Chapter/ 2022. Chapter 28 p.620-634. https://www.igi-global.com/chapter/surface-water-chemical-composition-monitoring-in-several-villages/299900
5	Surface water chemical composition monitoring in Several villages: Case study of Khakheti Region, Georgia	Handbook of Research on Water Science and Society, IGI Global Publishing House, Author of Chapter / 2022. Chapter 26, p.587-598. https://www.igi-global.com/chapter/surface-water-chemical-composition-monitoring-in-several-villages/299900
6	Regarding One Efficient Method of Disseminating Information for Chemistry Teaching (One Example Environmental	Orbital-Chemistry Journal. V. 13; #1 (January-March), 2021. P. 79-89.

*It is mandatory to provide a resume of the paper in English in case it isn't published in international peer reviewed journals and the language of publication was other than English (i.e. Georgian, Russian, etc). This refers to principal investigators publications only.

	Chemistry)	
7	Handbook of Research on Emerging Developments and Environmental Impacts of Ecological Chemistry	IGI Global Publishing House, Author of Chapter #25; 2020; https://www.igi-global.com/book/handbook-research-emerging-developments-environmental/231905 https://www.igi-global.com/chapter/ecological-chemistry-through-popular-scientific-articles/251601
8	MONITORING OF THE CHEMICAL COMPOSITION OF IORI RIVER	Journal Tchê Química, # V.17, #35, pp.346-354. 2020. http://www.journal.tchequimica.com/
9.	THE HISTORY OF CHEMISTRY AND PHARMACY DEVELOPMENT IN EARLY AND MEDIEVAL GEORGIA	Journal Tchê Química, # V.16, #31, pp.784-891. 2019. http://www.deboni.he.com.br/Periodico31.pdf
10.	RESEARCHING SOME OF THE PARAMETERS OF KURA (“MTKVARI”) RIVER IN TWO NEIGHBOURING COUNTRIES – GEORGIA AND TURKEY, IN TERMS OF ENVIRONMENTAL CHEMISTRY	Journal Tchê Química, # V.16, #31, pp.450-457. 2019. http://www.deboni.he.com.br/Periodico31.pdf
11.	STUDY OF ALAZANI RIVER AND SURFACE WATER COMPOSITION IN SOME VILLAGES OF KAKHETI REGION OF GEORGIA	SOUTHERN BRAZILIAN JOURNAL OF CHEMISTRY, V.26. #26. 2018. http://www.dumlupinar.edu.tr/index/sayfa/363/prof-dr-remzi-goren
12.	POPULAR SCIENCE ARTICLES FOR CHEMISTRY TEACHING	Orbital: The Electronic Journal of Chemistry;2016; Vol.9. #3 http://www.orbital.ufms.br/index.php/Chemistry/issue/archive

	ECOLOGICAL CHEMISTRY FROM THE POINT OF VIEW OF DIDACTICS	EDUCATION SCIENCE. V.1. #1. http://jes.org.ge/number/10/article/41/
13.	ХИМИЯ В НАУЧНО-ПОПУЛЯРНЫХ СТАТЬЯХ	ОБЩЕСТВО И ЛИЧНОСТЬ: ГУМАНИСТИЧЕСКИЕ ТЕНДЕНЦИИ В РАЗВИТИИ СОВРЕМЕННОГО ОБЩЕСТВА (ПАМЯТИ ПРОФЕССОРА Е.Н. ШИЯНОВА); МАТЕРИАЛЫ V МЕЖДУНАРОДНОЙ НАУЧНО-ПРАКТИЧЕСКОЙ КОНФЕРЕНЦИИ; Сборник научных статей преподавателей, обучающихся вузов, научно-практических работников. Стр . 208-212.
14.	Overview of Peculiarities of Natural Science and Chemistry Teaching in the Second Half of Nineteenth and in Early Twentieth Century in Georgia	PERIÓDICO TCHÊ QUÍMICA, 2017, #28 http://www.deboni.he.com.br/Revista_solo/en/revista.htm
15.	The Overview of Chemical knowledge in Eighteenth Century Georgia according to the Chemistry Book by King Vakhtang VI	Orbital: The Electronic Journal of Chemistry;2016; Vol.8. #3 p. 204-210. http://www.orbital.ufms.br/index.php/Chemistry/issue/view/45/showToc
16.	NATURAL TREATMENT SYSTEMS FROM THE POINT OF DIDACTICS (WITH DR. B. KIZILOZ)	PERIÓDICO TCHÊ QUÍMICA, 2016, #26 http://www.deboni.he.com.br/Revista_solo/en/revista.htm
17.	THE IMPACT OF "WASTENET PROJECT" ON	PERIÓDICO TCHÊ QUÍMICA, 2015, #23 http://www.deboni.he.com.br/Revista_solo/en/revista.htm

	THE ECOLOGY OF TURKEY AND GEORGIA	
18.	Dogal Aritma Teknolojileri (WITH DR. B. KIZILOZ)	IMOKOCAELI. 2014.pp.59-63.
19.	History of Chemistry and Scientific Tourism as a Means to Increase Students Motivation to Learn Chemistry	Journal Tchê Química. #22. August 2014. http://www.deboni.he.com.br/Revista_solo/en/revista.htm
20.	ENVIRONMENT ALLY FRIENDLY NAPHTOINDOLE CONTAINING AZO DYES	Tchê Química ; 2014. Volumes 10/11 - Números 20/21 - ISSN 2179-0302 ; http://www.periodico.tchequimica.com/
21.	HOW TO MAKE LESSONS OF CHEMISTRY MORE UNDERSTANDING AND EASY (ON AN EXAMPLE OF CONCRETE PROGRAM)	PERIÓDICO Tchê Química. 2013. Vol.10N.19 http://www.periodico.tchequimica.com/
22.	Information Technologies in Service of Chemistry Teaching	Rivista CnS: Speciale n.3-2012. p.191-195. Societa Chimica Italiana.
23.	Using a Computer Program to Illustrate the Lessons of Chemistry. The Result- Motivated Pupils	Fall 2012 CCCE Newsletter. 2012. http://www.ccce.divched.org/P6Fall2012CCCENL
24.	Theoretical investigation of the isomerization of glucose into fructose within the	Journal of Biological Physics and Chemistry (JBPC), 2011. V.11, #2. p.60-63.

	scope of mathematical and quantum chemistry	
25.	Theoretical Investigation of Gakhokidze's Rearrangement of Carbohydrates within the Scope of Mathematical Chemistry and Quantum Chemistry.	Journal of Biological Physics and Chemistry . V.3. 2010.
26.	Quantum-Chemical and mathematic-chemical investigation of intermolecular oxidation-reduction rearrangement in carbohydrates.	Proceedings of the Georgian national Academy of Sciences, 2011. V.37, #1-2.p.93-95

5. Participation in International Forums/Conferences

№	Year	Event title	Venue	Presentation title
1	2023	Erasmus+	Osman gazi University , Turkiye	Green Chemistry and blue economics
2	2022	Ecological and Environmental Chemistry-2022. http://eec-2022.mrda.md/ http://eec-2022.mrda.md/wp-content/uploads/2016/02/EEC-2022-FINAL-Program.pdf	online	SURFACE WATER STUDY IN SEVERAL VILLAGES OF KAKHETI REGION OF GEORGIA
3	2022	http://eec-2022.mrda.md/wp-content/uploads/2016/02/EEC-2022-Abstract-Book-Vol-1-Final.pdf Ecological and Environmental Chemistry-2022.	online	Georgia WATER AND SOCIETY IN GEORGIA FROM HISTORICAL ANGLE;
4	2022	NATO SPS project seminar	Venice, Italy	Investigation of Atmospheric air (Tbilisi case study)
5	2022	www.22 scon.org	online	OVERVIEW OF AIR MONITORING IN TBILISI (CAPITAL OF GEORGIA) FOR THE PERIOD 2018-21
6	2021	Pittcon	online	Overview of Environmental Chemistry Teaching
7	17-19 July, 2019	Euro-variety in Chemistry Education	Prato Center, Monash University	Popular Science articles as the auxiliary method for chemistry teaching for non-chemist students
8	8-9 May, 2019	Workshop for Turkish Teachers	Science popularization center, Eskishehir , Turkey	“Colorful Chemistry”

9	18 January, 2019	Workshop for Georgian Teachers	Experimentorium, Tbilisi	“The Chemistry from kitchen”
10	19-20 December, 2018.	Workshop for Turkish Teachers	Science popularization center, Eskishehir, Turkey	“The Chemistry from kitchen”
11	17-21 December, 2018	International Congress “Environmental Studies”	Afyon, Turkey	„Water in Didactic“
12				
13	2017, 17-21 May	Water is Life-5th Summer School of the Prof. Dr. Fuat Sezgin Research Foundation for the History of Science, Istanbul	Istanbul, Turkey	Water in the representation of some alchemists and in the middle ages of Georgia
14	2017	The 6 th International Conference –Ecological and Environmental Chemistry.	Moldova, Chisinau	Ecological chemistry through popular scientific articles
15	2016	Bilim Tarihi seminer 01_Istanbul Medeniyet Universitesi	Istanbul, Turkey	The Overview of Chemical and Pharmaceutical knowledge in Georgia
16	2015	Fisrt International Scientific Conference on « Sustainable Solutions to Wastewater Management Maximizing the Impact of Territorial Co-operations», 19-21 June, 2015 Kavala, Greece.	Kavala, Greece	TEACHING NATURAL TREATMENT SYSTEMS TO INCREASING ITS POPULARITY (WITH DR. B. KIZILOZ)
17	2014	A BLACK SEA NETWORK PROMOTING THE INTEGRATED NATURAL WASTEWATER TREATMENT SYSTEMS. Workshop	Yerevan, Armenia	The Legislative Framework and Present Status on Wastewater Treatment in the Black Sea Basi
18	2013	24th International Congress of History of Science,	Manchester,	The history of chemistry in the service of education

		Technology and Medicine http://www.ichstm2013.com/index.html	England	http://www.ichstm2013.com/programme/guide/p/0259.html
19	2012	ICCECRICE 2012, Rome, Italy.	Rome, Italy	Information Technologies in Service of Chemistry Teaching
20	2009	E-Learning in Corporate, Government, Healthcare, and Higher Education. Canada	Vancouver, Canada	Virtual chemistry

6. Additional Information (International Awards, Fellowships, etc.)

- Video clip Women in Science: <https://www.youtube.com/watch?v=UDJBHQ46UNk>
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- By NATO SPS programme was named among three scientist women/
https://www.nato.int/cps/en/natohq/news_191495.htm?fbclid=IwAR3fKSbB4b5LI4KYcaF6E07S_HoPXIvB4TthalXAu6y7Y_utFS0ICAb9EVo
- Journal Tchê Química, Editor in chef , from 2023-till today;
<https://www.journal.tchequimica.com/>
- Received a letter of acknowledgment regarding article: RESEARCHING SOME OF THE PARAMETERS OF KURA (“MTKVARI”) RIVER IN TWO NEIGHBOURING COUNTRIES – GEORGIA AND TURKEY, IN TERMS OF ENVIRONMENTAL CHEMISTRY
- SCIREA Journal of Chemistry- Member of the scientific board; From 2019.
- SOUTHERN BRAZILIAN JOURNAL OF CHEMISTRY- Technical Editor from 2018.
- Was awarded with special medal of Scientific Academy of Moldova and chemical society of Moldova. Moldova, Chisinau, 2017, Mart.
- Journal Tchê Química -Member of the scientific board; From 2017, June. <http://www.journal.tchequimica.com>
- 2012-present Chemistry Expert in Journal “Mastsavlebeli” <http://www.mastsavlebeli.ge/>
- 2012- International Summer School Of Science, Bakuriani, chemistry lecturer.
- 2010-11 member of American Chemical Society.
- 2009-2010 expert for evaluation School textbooks and national curriculum in Chemistry (Government department of Education and Science);
- The Republic conference of the young Chemists of Georgia- VII. Organizer and the member of juries of III section. 2006.
- 2003-2011 A member of the Georgian Academy of Educational Sciences;
- Tack part in the seminar 2004-2005 Institute of Sivil society

Doctorate in the context of Bologna;

- 1991.-2005 A member of the Orbeliani state Pedagogical University scientific council;
- 1998-2000 _ President of Georgia Second Degree Scholarship;
- 1997-1998 _ President of Georgia Third Degree Scholarship;
- 1992-1993 _ P. Meliqishvili Scholarship;
- 1990-1992 _ Ushinski Scholarship;

1. Member of two dissertation council:

- a) Technical University dissertation council ch 01.02 #4
- b) Institute of Biochemistry and Biotechnology dissertation council B. 03. 04

7. Books:

1. "Aluminibus et Salibus... keep in Secret", Collection of popular scientific articles in Chemistry. 2017. Publishing house "Triasi".
2. Laboratory works in Biochemistry, 2004.
3. E-learning, 2003.
4. Is love a Chemistry? -Collection of scientific-popular articles in chemistry, 2014.

8. Computer educational program:

1. Virtual Biochemistry;
2. Virtual Chemistry;

9. Languages:

Russian-very good;

English-good;

French-A/B;

Turkish-B1-1;