

Published works in 1973-2023 years Vladimir Gordeladze Associate Professor of the Department of chemistry, of Faculty of Chemical Technology and Metallurgy, Georgian Technical University

Articles/Monographs				
№№	Name of scientific works	Publisher, magazine (number, year) or copyright certificate number	Number of Printed Pages	Author/co-author's last name
1	2	4	5	6
1	Production and research of fusible primer enamels enamels	Theses of reports of the Republican meeting. Riga, 1973, pp.79	1	A.Sarukhanishvili T.Eristavi N.Bakradze
2	Preparation of low-temperature low-alkaline primer enamels based on rocks	All-Union scientific and technical meeting on enamelling of metals. Kharkov, 1974, pp.73	1	A.Sarukhanishvili N.Bakradze Sh.Japaridze
3	Low-temperature rock-based enamels	Scientific and Technical Conference. Thesis of Reports. Dnepropetrovsk, 1975, p.p. 91	1	A.Sarukhanishvili
4	Low temperature enamels for household gas appliances	Theses of reports of the All-Union seminar. Kishinev, 1975, pp.11	1	A.Sarukhanishvili T.Eristavi
5	Rheological properties of manganese-containing low-temperature ground enamels polishes	Theses of reports of the All-Union Scientific and Technical Meeting on enamels and enamelling of metals. Chelyabinsk, 1976, pp.11	1	A.Sarukhanishvili
6	Low-temperature rock-based primer enamels	Information Sheet №19, MB SSSR GSSR, 1975	1	A.Sarukhanishvili N.Bakradze Sh.Japaridze
7	Influence of barium and boron oxides on some properties of light-melting, ground enamels	XX republican scientific and technical conference of professorial and teaching staff of GPI and production workers, Part I. Tbilisi, 1976, pp.296.	1	A.Sarukhanishvili K.Kutateladze
8	Light-melting enamels based on manganese-carbonate ore and the rheology of their slurries	"Glass and Ceramics" №8. Moscow, 1979, pp.3-14	2	A.Sarukhanishvili
9	Clayless enamel slurry	Theses of Reports of the All-Union Scientific and Technical Council. Dnepropetrovsk, 1980, pp.89-90	2	—
10	Low-temperature firing	Proceedings of the Ural	5	A.Sarukhanishvili

	enamels based on complex raw materials	MCHM "New types of enamel ware and technological processes of its manufacture". Sverdlovsk, 1983. pp.47-51		V.Pavlova
11	Synthesis and investigation of enamel coatings based on arsenic anhydride production wastes	Scientific and Technical Committee "Prospects of development of production of arsenic and its compounds". Kutaisi, DSP, 1983. pp.17	1	A.Sarukhanishvili I.Kvezereli-Kopadze N.Tskhakaia
12	Study of the effect of enamel composition on the rheology of clay-free slurry	GTU proceedings, №8/290, 1985. pp.48-51	4	A.Sarukhanishvili
13	Introduction of glass coatings on copper alloys and development of halftone glass powders	№04-253/87, report on the economic contract. №01870019726, inv. №0289.002540. Tbilisi, 1988, pp.34	34	A.Sarukhanishvili L.Ebanoidze A.Bandzava N.Shishinashvili
14	Glass enamel coatings are resistant seawater	Physical chemistry and technology of refractory inorganic materials. materials. Interuniversity collection. Scientific Works, DSP. Leningrad, 1989, pp.109-112	4	A.Sarukhanishvili I.Zedginidze T.Labadze
15	Clay-free enamel slurries and their practical applications	XV International enamellees congress. Praha, 1989	3	A.Sarukhanishvili M.Razmadze
16	Clay-free enameling slip-casting materials and their practical applications	The vitreous enameller. Volume 4 ¹ , №2. 1990. pp.43-47	5	A. Saruckanishvili M. Razmadze
17	Die Anwendung tofreier Emails chlicker	Mitteilvngen. Des vereins dereins deutscher emailfach-levte e.v. Band 38/1990, Het. 7, juli, seite 93-94	2	A. Saruckanishvili M. Razmadze
18	Ground enamel	Copyright certificate. №442160, bulletin №33, 1974	2	A.Sarukhanishvili N.Bakradze M.Basilashvili
19	Enamel	Copyright certificate. №482405, bulletin №32, 1975	2	A.Sarukhanishvili T.Eristavi Sh.Japsridze
20	Enamel	Copyright certificate. №487855, bulletin №38, 1975	2	A.Sarukhanishvili T.Eristavi Sh.Japsridze
21	Ground enamel	Copyright certificate. №487856, bulletin №38, 1975	2	A.Sarukhanishvili T.Eristavi Sh.Japsridze

22	Enamel	Copyright certificate №554224, bulletin №14, 1977	2	A.Sarukhanishvili T.Eristavi G.Juravliov
23	Enamel	Copyright certificate №542737, bulletin №2, 1977	2	A.Sarukhanishvili T.Eristavi
24	Enamel	Copyright certificate №551281, bulletin №11, 1977	2	A.Sarukhanishvili V.Berdzenishvili L.Anosonian
25	Enamel	Copyright certificate bulletin №674404 (T), bulletin (not to be published in the open press) 1974,	5	A.Sarukhanishvili D.Ushakov M.Kovner
26	Enamel coatings	Copyright certificate №442160, bulletin №33, 1974	3	A.Sarukhanishvili I.Kvezereli-Kopadze M.Tskhakaia
27	Enamel	Copyright certificate №1211234, (A), bulletin №6, 1986	2	A.Sarukhanishvili I.Kvezereli-Kopadze
28	Enamel	Copyright certificate №1369198 (A1), 1987, for official use	3	A.Sarukhanishvili I.Zedginidze
29	Enamel	Copyright certificate №1311174 (A), 1987, for official use	3	A.Sarukhanishvili I.Berdzenishvili M.Razmadze
30	Enamel	Copyright certificate №1491823, (A1) bulletin №25, 1989	2	A.Sarukhanishvili M.Razmadze
31	Complex introduction of priming and coating enamels and development of low- temperature (below 750°C) enamels for tableware	№720/74, report on the economic contract. №74011223, inv. №B592380. Tbilisi, 1976	104	A.Sarukhanishvili T.Eristavi
32	Use of local natural resources in the production of steel enamelled dishes	№149/77, report on the economic contract. №78057659, inv. №B769306. Tbilisi, 1980	85	A.Sarukhanishvili K.Kutateladze T.Matoian
33	Development and issuance of initial data for design of frit smelting production in the system of the Ministry of Mestprom of the GSSR	№04-380/84, report on the economic contract. №01840017533, inv. №0285.0020168. Tbilisi, 1984	37	A.Sarukhanishvili I.Berdzenishvili M.Lalashvili A.Khachidze
34	To develop and master more perfect technological processes of enamelling of Metal.	Report of the research work. Reg.№01,84,0051309, inv.	40	A.Sarukhanishvili I.Berdzenishvili

	products, providing improvement of operational properties.	Nº0286.0021344 . Tbilisi, 1985		K.Kvezereli-Kopadze I.Zedginidze A.Khachidze
35	Artistic enamels for ferrous metals	Nº04-479/85, report on the economic contract. Nº01850034365, inv. Nº0287.0022686. Tbilisi, 1986	40	A.Sarukhanishvili K.Kvezereli-Kopadze M.Lalashvili L.Ebanoidze
36	Introduction of glass coatings on copper alloys and development of halftone glass powders	Nº04-253/87, report on the economic contract. Nº01870019726, inv. Nº0289.002540. Tbilisi, 1988	34	A.Sarukhanishvili L.Ebanoidze A.Bandzava N.Shihinashvili
37	Corrosion protection of metal by enamelling	International Conference "Chemistry and Chemical Technology: Advances and Perspectives". Tbilisi, 1997. pp.30-31	2	A.Sarukhanishvili I.Zedginidze M.Razmadze I.Berdzenishvili I.Beli L.Bragina
38	Features of rheological properties of manganese-containing enamel slugs	GTU proceedings Nº6 (445). Tbilisi, 2002. pp.19-24	6	-
39	Enamelling non-ferrous metals	Georgian Ceramic Association Journal "Ceramics" Nº1 (11), Tbilisi, 2004. pp.15-17 ISSN 1512-0325	3	-
40	Enamel on the basis of waste from Chiatura ore processing	Georgian I International Scientific-Practical Conference an exhibition of Tbilisi, 2004. pp.16	3	A.Sarukhanishvili
41	Enamel based on manganese-containing carbonate ores	GTU proceedings (458). Tbilisi, pp.34-36	4	A.Sarukhanishvili
42	Some physico-chemical basics of making easily molten enamel	Georgian Ceramic Association Journal "Ceramics" Nº1 (11). Tbilisi, 2006. pp.24-27 ISSN 1512-0325.	4	E.Kavtaradze
43	Assessment of the possibility of obtaining, synthesis and properties of silicate glass materials based on complex raw materials	International Conference on Chemistry and Chemical Technology. Erevan, 2007, pp.23-24	2	A.Sarukhanishvili T.Cheishvili
44	Low-temperature enamels for non-ferrous metals	Georgian Ceramic Association Journal "Ceramics" Nº1 (11). Tbilisi, 2007. pp.12-15	4	T.Antadze

		ISSN 1512-0325.		
45	Green enamel for adventurous coatings	Georgian Ceramic Association Journal "Ceramics" №1 (11), Tbilisi, 2008. pp.10-12 ISSN 1512-0325	3	N.Vardoshvili
46	Mineralogical and chemical properties of Patardzeuli and Tskarostavi clays of the Kakheti region	Collection of materials of the II International Conference of the Association of ceramists of Georgia. Tbilisi, 2009. pp.125-127	3	G.Loladze
47	Theory and practice of using a number of complex raw materials in the adoption of non-metallic, inorganic composites	Monograph. GTU, Tbilisi, 2009. CD1507	170	A.Sarukhanishvili
48	Rheology of enamel shlicer based on manganese-containing frits	Proceedings of the International Scientific and Practical Conference "Innovative technologies and modern materials". Kutaisi, 2010. pp.340-341.	2	N.Rachvelishvili
49	Investigation and application of solder obtained by thermal fusion of materials consisting of nanoscale particles of two different types	Nanochemistry-nanotechnologies. Collection of materials of the first international conference Tbilisi, 2010. pp.79-94	6	A.Sarukhanishvili V.Vachnadze
50	Possibility of utilisation of Chiatura ore beneficiation waste to enamel	International scientific-technical conference "Environmental Protection and sustainable development", works, GTU. Tbilisi, 2011. pp.110-112	3	N.Rachvelishvili
51	The issue of obtaining facing glass materials using waste granite, volcanic ash and glass grinding materials	Georgian Ceramic Association Journal "Ceramics" №2 (25). Tbilisi, 2011. pp.38-41 ISSN 1512-0325.	4	T.Cheishvili G.Loladze
52	On the possibility of calculation $\Delta H_{f,298}^0$ and a S_{298}^0 number of borates	International-scientific conference "innovative technologies and materials". Collection of scientific works. Tbilisi, 2011, pp.23-32	10	A.Sarukhanishvili N.Rachvelishvili
53	To the issue of obtaining enamel frit from a multi-mineral composition	Georgia Chemical Journal, №11 (2). Tbilisi, 2011. pp.164-169	6	A.Sarukhanishvili N.Rachvelishvili

		ISSN-1512-0686		
54	Use of the method of additivity of the system of structural ingredients for calculation of standard mole values of thermodynamic parameters of a number of borates	Georgia Chemical Journal, №11(3). Tbilisi, 2011, pp.308-311 ISSN-1512-0686	4	A.Sarukhanishvili N.Rachvelishvili
55	On the possibility of IR spectrometric evaluation of processes occurring during heat treatment of a multimineral composition	Georgia Chemical Journal, №11 (4). Tbilisi, 2011, pp.408-411 ISSN-1512-0686	4	N.Rachvelishvili A.Sarukhanishvili
56	Non-Clay-frees slurries	Georgia Chemical Journal, №12 (2). Tbilisi, 2012, pp.137-140 ISSN-1512-0686	4	N.Rachvelishvili A.Sarukhanishvili
57	Features of enamel, which is designed for steel, obtained from artificial material	Georgian Ceramic Association Journal "Ceramics", №2(30), Tbilisi, 2013, pp.32-36 ISSN 1512-0325.	5	N.Rachvelishvili A.Sarukhanishvili
58	On the possibility of calculating S_{298}^0 of a number of silicides on the basis of the additivity principle	International Conference on Chemistry and Chemical Technology. Collection of Materials. Erevan, 16-20 September 2013	4	A.Sarukhanishvili
59	Base enamels based on ground and glass cladding of Tskhaldubo origin	Georgia Chemical Journal, №13 (1). Tbilisi, 2013, pp.5-7 ISSN-1512-0686		G.Loladze V.Kobaladze
60	Influence of composition of manganese-containing enamels on rheological properties of non-clay frees slurries	International scientific-practical conference "innovative technologies and modern materials". Collection of works. Kutaisi, 2013, pp.138-140	3	G.Loladze N.Rachvelishvili
61	Thermodynamic evaluation of low-temperature processes in the system $\text{Na}_2\text{CO}_3\text{-SrCO}_3\text{-BaCO}_3\text{-H}_3\text{BO}_3\text{-SO}_2$	Georgian Ceramic Association Journal "Ceramics", 2(32). Tbilisi, 2014. pp.44-48 ISSN 1512-0325	5	A.Sarukhanishvili N.Andguladze
62	Likelihood of Forming Copper-Enamel Separating Surface Through Roasting	Journal of Technical Science Technologies. International Black Sea University. V.4	4	A. Sarukhanishvili M. Kapanadze M. Mshvildadze

		Issue 1. 2015. pp.27-30		T. Loladze
63	Possibility of predicting glass coatings for copper from a kind of compositions of the system $\text{Na}_2\text{O}-\text{SrO}-\text{BaO}-\text{B}_2\text{O}_3-\text{SO}_2$	II International Conference "Modern Technologies and Methods of Inorganic Chemistry and Materials Science", Collection of Reports. Tbilisi, 2015. pp.321-325	5	N.Andguladze A.Sarukhanishvili
64	Prediction of glass formation from a number of compositions of a five-component bore silicate system	GTU-Works, №1(495). Tbilisi, 2015, pp.51-57 ISSN 1512-0996	7	A.Sarukhanishvili N.Andguladze L.Ebanoidze
65	About the stresses arising from fusion with copper in multicomponent enamel	International Conference "Innovative technologies in metallurgy and materials science". Collection of works. N3 (497). Tbilisi, July 16-18 2015, pp.128-130	4	A.Sarukhanishvili
66	Synthesis of enamels in a five-component system	International scientific-practical conference "Modern Engineering Technologies and Environmental Protection". Collection of works. Part I. Kutaisi, May 19-20. 2016, pp.148-150	4	N.Andguladze A.Sarukhanishvili M.Kapanadze M.Mshvildadze
67	X Ray diffraction analysis of processes in specific enamels blend during heat treatment	Journal of technical science technologiis. Volume 6, Issue 1. Tbilisi, 2017, pp. 35-38	4	A.Sarukhanishvili N. Andguladze M. Mshvildadze T. Loladze
68	Calculation of thermal constants of garnet group minerals by the method of additivity of structural ingredients	Journal "Ceramics and advanced technologies"., 2(32), Georgian Ceramic Association. V.20. Tbilisi, 2018, pp.25-30 ISSN 1512-0325	6	A.Sarukhanishvili T.Kenchoshvili
69	Green adventurous coatings for enamel	International scientific - practical conference "Modern science and innovative practice. Collection of works. Georgia, Kutaisi, 16.10.2018, pp.76-81	6	A.Sarukhanishvili M.Kapanadze M.Mshvildadze N.Kebadze
70	Estimation of sodium, strontium, barium, boric acid	Works of Georgian Technical University.	7	A.Sarukhanishvili M.Kapanadze

	and silica carbonates by IR spectroscopy	Georgia, Tbilisi, III additional edition, 2019, pp.144-149		M.Mshvildadze N.Kebadze
71	Analysis of means of predicting processes occurring in silicate enamel	Georgia Chemical Journal, №1(19). Tbilisi, 2019, pp.25-30 ISSN-1512-0686		A.Sarukhanishvili M.Ghibradze
72	Analysis of temperature effects in five-component compositions by IR spectroscopy	Georgian Ceramic Association Journal "Ceramic and advanced technologies", 21,1(41). Tbilisi, 2019, pp.8-13	5	A.Sarukhanishvili M.Ghibradze
73	Method of additivity of structural ingredients for determination of thermodynamic properties of anhydrous silicates	Monograph Georgian Technical University Publishing House "Technical University", Tbilisi, 2019	216	A.Sarukhanishvili A.Gogishvili D.Eristavi
74	Using Georgia's natural resources to obtain vitreous coatings	International Conference "Environmental Protection and sustainable development" dedicated to the 80th anniversary of V.Eristavi. Collection of works. Tbilisi, 2020, pp.342-344	3	G.Loladze
75	Estimation of processes running during thermal treatment in some composition of Na_2CO_3 - SrCO_3 - BaCO_3 - B_2O_3 - SiO_2 system by means of IR spectroscopy	Georgian engineering news.GEN 2019, Tbilisi, GTU, pp.104-107	4	M.Gibradze M.Kapanadze M.Mshvildadze T.Loladze N.Kebadze
76	On the origin of the transition layer during copper enamelling	Georgia Chemical Journal, №1(19). Tbilisi, 2019, pp.110-113 ISSN-1512-0686	4	M.Ghibradze
77	Method of calculation of initial parameters for thermodynamic evaluation of obtaining various using chiatura manganum ore enrichment waste	Journal of the Georgian ceramists association "Ceramics and advanced technologies", V.25. 1(49), 2023, pp.39-48	10	N.Rachvelishvili T.Tsilosani
78	Thermodynamic analysis of possible reactions during CO_2 adsorption by sorbents derived from a natural resource	Publishing house of Georgian Technical University. Collection of scientific papers "Proceedings", №1(53), 2024	13	M.Kekelidze N.Mukhdgverdeli

Conferences/symposiums				
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1	2	4	5	6
1	Low-temperature enamels based on rocks	Scientific and Technical Conference. Theses of reports Dnepropetrovsk, 1975	1	A.Sarukhanishvili
2	Synthesis and study of enamel coatings based on arsenic anhydride production wastes	Scientific and Technical Conference "Prospects of development of arsenic and its compounds", Kutaisi, DSP, 1983	1	A.Sarukhanishvili I.Kvezereli-Kopadze N. Tskhakaia
3	Clay-free enamel slurries and their practical applications	XV International enamelees congress, Praha, 1989	3	A.Sarukhanishvili M.Razmadze
4	Anticorrosive protection of metal by enamelling	International Conference "Chemistry and chemical technology. Achievements and prospects". Tbilisi, 1997	2	A.Sarukhanishvili I.Zedginidze M.Razmadze I.Berdzenishvili I.Beli L.Bragina
5	Enamel on the basis of enamelling waste from Chiatura ore processing	I Georgian Scientific and Practical Conference and Exhibition with International Participation. Tbilisi, 2004	3	A.Sarukhanishvili
6	Evaluation of the possibility of production, synthesis and properties of silicate glass materials based on complex raw materials	International Conference on Chemistry and Chemical Technology. Erevan, 2007	2	A.Sarukhanishvili T.Cheishvili
7	Mineralogical and chemical properties of Patardzeuli and Tskarostavi clays of the Kakheti region	Collection of materials of the II International Conference of the Association of ceramists of Georgia. Tbilisi, 2009	3	G.Loladze
8	Rheology of enamel slurries based on manganese-containing frits	Proceedings of the International Scientific and Practical Conference "Innovative Technologies and Modern Materials". Kutaisi, 2010	2	N.Rachvelishvili
9	Investigation and application of solder obtained by thermal fusion of materials consisting of	Nanochemistry-nanotechnologies. Collection of materials of the first international conference	6	V.Vachnadze A.Sarukhanishvili

	nanoscale particles of two different types	Tbilisi, 2010.		
10	Possibility of utilisation of Chiatura ore beneficiation waste to enamel	International scientific-technical conference "Environmental Protection and sustainable development". Tbilisi, 2011	3	N.Rachvelishvili
11	On the possibility of calculation $\Delta H_{f,298}^0$ and a S_{298}^0 number of borates	International-Scientific Conference "Innovative technologies and materials". Tbilisi, 2011	10	A.Sarukhanishvili N.Rachvelishvili
12	On the possibility of calculating S_{298}^0 of a number of silicides on the basis of the additivity principle	International Conference on Chemistry and Chemical Technology. Erevan, 16-20 September 2013	4	A.Sarukhanishvili
13	Influence of composition of manganese-containing enamels on rheological properties of non-clay frees slurries	International scientific-practical conference "Innovative technologies and modern materials". Kutaisi, 2013	3	G.Loladze N.Rachvelishvili
14	Possibility of predicting glass coatings for copper from a kind of compositions of the system $\text{Na}_2\text{O}-\text{SrO}-\text{BaO}-\text{B}_2\text{O}_3-\text{SO}_2$	II International Conference "Modern Technologies and Methods of Inorganic Chemistry and Materials Science", Tbilisi, 2015	4	N.Andguldze A.Sarukhanishvili
15	About the stresses arising from fusion with copper in multicomponent enamel	International Conference "Innovative technologies in metallurgy and materials science". Tbilisi, July 16-18 2015	4	A.Sarukhanishvili
16	Synthesis of enamels in a five-component system	International scientific-practical conference "Modern Engineering Technologies and Environmental Protection". Kutaisi, May 19-20. 2016,	4	N.Andguldze A.Sarukhanishvili M.Kapanadze M.Mshvildadze
17	Estimation of sodium, strontium, barium, boric acid and silica carbonates by IR spectroscopy	International Scientific and Methodological Conference "Chemistry, Achievements and Prospects" dedicated to the 85th anniversary of G.Tsintsadze. Georgia, Tbilisi, GTU, 2018	3	M.Mshvildadze M.Kapanadze A.Sarukhanishvili N.Kebadze

18	Green enamel for adventurous coatings	International scientific and practical concept - "Modern science and innovative practice". Sakartvelo, Kutaisi, 2018	3	M.Mshvildadze M.Kapanadze A.Sarukhanishvili N.Kebadze
19	Using Georgia's natural resources to obtain vitreous coatings	International Conference "Environmental Protection and sustainable development" dedicated to the 80th anniversary of V.Eristavi. Tbilisi, 2020	3	G.Loladze
20	Aspects of utilisation of clinofitilolitic tuff diatomite and as sorbents of natural resources of Georgia	International Scientific and Methodological Conference "Chemistry, Achievements and Prospects" dedicated to the 90th anniversary of Acad. G. Tsintsadze. Georgia, Tbilisi, GTU, 2023	2	E.Uchaneishvili N.Mukhadgverdeli
21	Ways to reduce harmful gases during cement clinker production in gas chimneys	International Scientific and Methodological Conference "Chemistry, Achievements and Prospects" dedicated to the 90th anniversary of Acad. G. Tsintsadze. Georgia, Tbilisi, GTU, 2023	2	G.Loladze N.Mukhadgverdeli

Books				
№№	Name of scientific works	Publishing, place, date	Number of Printed Pages	Author/co-author's last name
1	2	4	5	6
1	Enamel and Enamelling	GTU, Tbilisi, 1983	103	A.Sarushanishvili
2	Physical chemistry, a collection of exam tests	Georgian Academy of Sciences, Georgia, 1989	10	Ts.Nachebia N.Ratiani Ts.Tsinauri
3	Enamel and enamelling technology	GTU, Tbilisi, 2004	239	A.Sarukhanishvili
4	Jibbs free energy minimization method	GTU, Tbilisi, 2007	81	A.Sarushanishvili A.Gogishvili D.Eristavi
5	Methods and means of control in technology of enamels	GTU, Tbilisi, 2013	52	A.Sarukhanishvili
6	Physical chemistry, a collection of exam tests	GTU, Tbilisi, 2017	52	V.Gordeladze A.Sarukhanishvili N.Andguladze M.Tserodze L.Ebanoidze

Trainings

Iowa State University, Center of Excellence in Teaching and Learning, Georgian Technical University, PDC CETL „Learning results and assessment“, Georgia, 2015-12-10

Iowa State University, Center of Excellence in Teaching and Learning, Georgian Technical University, PDC CETL „Modern Methodologies in Teaching and Learning“, Georgia 2015-06-15