

List of scientific and educational works

2008-2023 years

Maia Mshvildadze

#	Title of scientific works	printed or handwritten	Publishing house, journal N (number, year) or copyright certificate number	Number of printed plates or pages	Last name of the co- author
1	2	3	4	5	6
1	INFLUENCE OF ALUMINIUM OXIDE NANOPOWDER IN THE COMPOSITION OF CARBIDES ON THE STRUCTURE AND OPERATIONAL PROPERTIES OF THE MATERIAL	printed	SILK ROAD2. International Scientific Research Congress September 26-27, 2023 Igdir University, Igdir, Türkiye in person and online		Z.Kovziridze , N. Nizharadze M. Mshvildadze G. Tabatadze V. Kinkladze Ts. Danelia
2	Influence of man-made additions of organic nature on the process of blowing clay rocks	printed	International Scientific Conference "Chemistry-Achievements and Prospects" dedicated to the 90th anniversary of the birth of academician Givi Tsintsadze, Tbilisi, April 20,2023. ISBN		Guraspashvili, M. Mshvildadze, T. Cheishvili
3	The receiving and study of celsian electrotechnical ceramics with innovation one stage simplified technologies in the BaO-Al ₂ O ₃ -SiO ₂ System.	printed	National Intellectual Property Center of Georgia - patent certificate № 8713, 2022.08.08		Z. Kovziridze

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4	High Temperature Multifunctional Heteromodulus Nano Composite for Armor Plates, Turbine Disk and Fan, Refractory and Wear-Resistant Aggregates	printed	MOAMBE, BULLETIN OF THE GEORGIAN NATIONAL ACADEMY OF SCIENCES, Tbilisi. Georgia. vol. 16, no. 3, 2022. ISSN - 0132 - 1447	Pp.32-37.	Z.Kovziridze, N.Nijaradze, G. Tabatadze, T. Cheishvili, M. Mshvildadze, N.Kutsiava, M.Balakhashvili, N. Darakhvelidze, S. Gvazava
5	Preparation of multifunctional ceramic composite materials on a silicon matrix. Cheap raw materials and simplified innovative with technology.	printed	International Conference on Global Practice of Multidisciplinary Scientific Studies Dedicated to the 100th Anniversary of "Georgian Technical University-GTU". June 24-26, 2022/Tbilisi. Georgia. ISBN: 978-625-8323-63-4 IKSAD GLOBAL PUBLISHING HOUSE pp.1065-1076		Z.Kovziridze , N. Nizharadze, M. Balakhashvili, M. Mshvildadze, G.Tabatadze, N.Darakhvelidze
6	The receiving and study of celsian ceramics on the bases of local raw materials with innovation single stage simplified technologies in the $BaO-Al_2O_3-SiO_2$ System for electronical and electrotechnical industry.	printed	2 nd Edition Academia International Webinar on Materials Science and Engineering Materials Spectrum 2022 London. November 18-19		Z.Kovziridze R.Mchedlishvili, V.Kinkladze, G.Nacvlshvili, N.Darakhvelidze , N. Kuciava, M. Balakhashvili, N.Nizharadze.

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7	Ceramic Nanocomposites in the B ₄ C-SiC-Si-Al-Al ₂ O ₃ –Carbon fiber System with Different Percentages of β-SIALON.	printed	2 nd Edition Academia International Webinar on Materials Science and Engineering Materials Spectrum 2022 London. November 18-19		Z.Kovziridze N.Nijaradze, G. Tabatadze, T. Cheishvili, M. Balakhashvili, N. Darakhvelidze
8	The Receiving and Study of Celsius Electrotechnical Ceramics with Innovation One Stage Simplified Technologies in the BaO-Al ₂ O ₃ -SiO ₂ System”	printed	European Journal of Applied Sciences (EJAS). Vol.10. Issue 6. December 2022. Pp. 88-101 https://doi.org/10.14738/aivp.106.13295 This work is licensed under a Creative Commons Attribution 4.0 International License . DOI: https://doi.org/10.14738/aivp.106.13295		Zviad Kovziridze Natela Nizharadze, Maia Mshvildadze, Gulnazi Tabatadze, Maia Balakhashvili, Nino Darakhvelidze.
9	Obtaining high fire resistance backing material clinker using local raw materials- dolomite, quartz ore sand (Georgia) and production waste.	printed	Ceramics in Europe 2022. Krakov. 10-14 July. 2022. Abstract Book Pp.61.		Zviad Kovziridze, Natela Nizharadze, Nino Darakhvelidze, Maia Balakhashvili, Guliko Tabatadze, Maia Mshvildadze
10	Obtain and study high fire resistance material with simplified innovation technologies for cement furnace kilns.	printed	7 th Asia Pacific International Modern Sciences Congress November 4-5, 2022 / Jakarta, Indonesia STIE GANESHA College of Economics. Proceedings Book pp.378		Z.Kovziridze, N. Nizharadze, M. Balakhashvili, M. Mshvildadze, G. Tabatadze, N.Darakhvelidze

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11	Prompting Innovative Teaching and Learning Methods at georgian Technical University	printed	International Scientific Conference "Leanguage and Education in International relations" 14-16 October, 2022 Tsaghadzor, Armenia	p. 32	T. Loladze; M. Kapanadze
12	Obtaining and Study Smart Composites in the B ₄ C-SiC-Si-Al-Al ₂ O ₃ – Carbon Fiber System	printed	Advances in Materials Physics and Chemistry . Vol.12 No.11, November 2022	p21	Z.D.Kovziridze, N.S. Nizharadze, G.Tabatadze T. Cheishvili' N.Kutsiava; M.Balakashvili, N. Daraxhvelidze; S. Gvazava
13	Research on Coposite Stable to Corrosive Media in SiC-AL ₂ O ₃ -Si ₂ ON ₂ System	printed	Recent Developments in Engineering Research Vol.5. March, 2022	pp. 15-28	Z.D.Kovziridze, N.S. Nizharadze, G.Tabatadze, E.Nikoleishvili, Z. Mestvirishvili
11	Antimony production in antient Georgia	printed	The international Scientific-Practical Conference "Natural Resources of Georgia and Prospects of Sustainable Development of Productive Forces" dedicated to the 100 th of the Georgian Technical University, Tbilisi, November 17-18, 2021.	pp.154-157	M. Kapanadze, N. Keadze, T. Loladze

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15	Electrochemical synthesis of anti-corrosion composite coating (NiPAI ₂ O ₃)	printed	"Ceramics" magazine of the Association of Ceramicists of Georgia Vol.23. 2(46). 2021.	p. 22	M. Donadze, M. Msvildadze, Sh. Zurabishvili, N. Makhaldiani, V. Tediashvili
16	Obtaining of β -Si-Al-O-N nanocomposite with alumothermal and nitrogen processes	printed	Journal of Ceramic Science and Technology. 2021. Germany. Impact factor.		N.Nijaradze N.Darakhvelidze M.Balakhshvili Z. Mestivirishvili G.Tabatadze V.Qinqladze M.Mshvildadze
17	Ceramic Smart Nano Composite in the SIAION-SiC-Al ₂ O ₃ System	printed	2nd Online International Conference On Materials Science and Nanomaterials. 2021. 13-14 August. USA. Washington. Online. Webinar		N.Nijaradze, T. Cheishvili, G. Tabatadze, M. Mshvildadze, Z. Mestvirishvili, M. Balakhshvili. V. Kinkladze, N. Darakhvelidze.
18	Popular physical chemistry course (phase equilibria. non-electrolyte solutions)	printed	Help Guide. "Technical University" 2021	Pp. 113.	A. Sarukhanishvili, M. Kapanadze, N. Keadze
19	Popular Physical Chemistry Course (Physical Chemistry of Aggregate States of Matter)	printed	Help Guide. "Technical University"2019	p 172	A. Sarukhanishvili, M. Kapanadze, N. Keadze
20	Popular Physical Chemistry Course (Atom, Molecule)	printed	Help Guide. "Technical University"2017	p 156	A. Sarukhanishvili, M. Kapanadze, N. Keadze

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21	CHEMISTRY TECHNOLOGY OF THE PRODUCTION OF BRILLIANT ARCHAEOLOGICAL GLASSES	printed	International scientific conference dedicated to the 300th anniversary of the birth of Erekle the Second, 2021	p 6	M. Kapanadze
22	Estimation of processes running during thermal treatment in some compositions of Na_2CO_3 - SrCO_3 - BaCO_3 - H_3BO_3 - SiO_2 system by means of IR spectroscopy.	printed	Georgian Engineering News, ISSN 1512-0287, Vol. 89, 2019	pp 104-107	V. Gordeladze, M. Gibradze, M. Kapanadze, T. Loladze, N. Keadze
23	Determination of sodium, strontium, barium, boric acid and silicon dioxide carbonates by IR spectroscopy through	printed	International scientific-methodological conference "Chemistry-achievements and perspectives" dedicated to the 85th anniversary of academician Givi Tsintsadze's birth. collection of works, 2018	p 3	V. Gordeladze, M. Kapanadze, A. Sarukhanishvili, N. Keadze
24	Enamel for green aventurine coating	printed	International Scientific-Practical Conference "Modern Science and Innovative Practice". Collection of works of Akaki Tsereteli State University, 2018	p 5	V. Gordeladze, M. Kapanadze, A. Sarukhanishvili, N. Keadze

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25	X ray diffraction analysis of processes in specific enamel blend during heat treatment	printed	Journal of Technical Science and Technologies, IBSU. ISSN 2298-0032, Vol. 5, №1. 2017	P 6	A. Sarukhanishvili, V. Gordeladze, N.Andguladze, M.KapanaZe, T.Loladze
26	PREPARATION OF COMPOSITES BY NITRO ALUMINOTHERMIC PROCESSES, OVER B-SIALON MATRIX IN THE SIALON-SiC-AL ₂ O ₃ SYSTEM	printed	Journal of Electronics Cooling and Thermal Control , Vol.6 No.2, Pub. Date: June 15, 2016, Impact Factor. Downloads-735. Views-887 (May 2017)	P 16	Z.Kovziridze, N.Nizharadze, N.Darakhvelidze, G. Tabatadze, Z. Mestvirishvili, E. Nikoleishvili
27	Compozite Stable to Corrosive Media in SiC-AL ₂ O ₃ -Si ₃ N ₄ System	printed	Journal of Electronics Cooling and Thermal Control, Vol. 3 No. 2. 2013. Pp. 74-84 Delaware, USA. Impact Factor. Download-2019. Views-4057 (May 2017).	P 11	Z.Kovziridze, N.NicharadzeG. Tabatadze, E. Nikoleishvili, Z. Mestvirishvili
28	Metal-Ceramic Smart Composite in Ti(C,N)-Ni-Mo-W System	printed	Journal of Electronics Cooling and Thermal Control , Vol.6 No.2, Pub. Date: June 7, 2016, Impact Factor Downloads-1037. Views-1149 (May 2017)	p1	Z.Kovziridze, N.NizharadzeG.Tabatadze, E.Nikoleishvili,
29	Effect of antioxidant on the properties of carbonaceous dolomite-serpentinite composite	printed	Journal of Association of Ceramicists of Georgia "Ceramics" Vol.19. 1(37). 2017. G	pp 14-20	Z. Kovziridze, N. Nizharadze, M. Balakhashvili, G. Tabatadze
30	X ray diffraction analysis of processes in specific enamel blend during heat treatment	printed	Journal of Technical Science and Technologies, IBSU. ISSN 2298-0032, Vol. 6, №2. 2017	p 6	A. Sarukhanishvili, V. Gordeladze, N.Andguladze, m.Kapanadze, T.Loladze

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31	Innovative Solution of Utilization of the Clay Slates Accumulated in the Gorge of the River Duruji	printed	Journal of Technical Science and Technologies, IBSU. ISSN 2298-0032, Vol. 5, №2. 2016	p 6	A. Sarukhanishvili, R. Skhvitardze, E. Shapakidze, M Kapanadze, T.Loladze, D. Eristavi, I. Giorgadze, S.Verulava
32	Synthesis of enamels in the five-component borosilicate system	printed	International scientific-practical conference "Modern engineering technologies and environmental protection". A collection of works2016	p 2	N. Andghuladze, A. Sarukhanishvili, V. Gordeladze, M. Kapanadze
33	Obtaining fired and unfired refractory products based on local raw materials	printed	The Journal of the Association of Ceramicists of Georgia "keramika" Vol.18. 2(36). 2016. G	p 8	Z. Kovziridze, N. Nizharadze, M. Balakhashvili, G. Tabatadze
34	Technology, inspection, control of ceramic, polymer and bionanomedical composites	printed	Methodical instructions for performing laboratory work, published by "Technical University" 2015	p 37.	Z. Kovziridze, N. Nizharadze, G. Tabatadze, E. Nikoleishvili.
35	Likelihood of Forming Copper-Enamel Separating Surface Through Roasting	printed	Journal of Technical Science and Technologies #4 (1) 2015	p 4	V.OGordeladze, A.Sarukhanishvili, M.Kapanadze, T.Loladze

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36	On the stresses generated in multi-component enamel due to fusion of copper	printed	International conference "Innovative technologies in metallurgy and materials science" Proceedings of the Technical University of Georgia.#1 (483) 2015	p 4	V. Gordeladze, A. Sarukhanishvili, M. Kapanadze
37	Calculation of standard molarenthalpy and Gibbs free energy of formation anhydrous silicates	printed	Journal of Technical Science and Technologies #4 (1) 2015	p 4	A.Sarukhanishvili, E.Matsaberidze, M.Kapanadze, T.Loladze
38	Supply of dolomite from Skuri to Barrebo for the production of high fire-resistant composites	printed	„Ceramics" Journal of the Association of Ceramicists of GeorgiaVol.17. 2(34). 2015. G	p 7	Z. Kovziridze, N. Nizharadze, M. Balakhashvili, G. Tabatadze
39	OBTAINING MANGANESE FEROALLOYS FROM SPECIAL COMPOSITION CONCENTRATES AND PRODUCTS	printed	INNOVATIVE TECHNOLOGIES IN METALLURGY AND MATERIALS SCIENCE 16-18 JULY, 2015	p 4	K. Tsereteli
40	Popular physical chemistry course (conception and development of the discipline A brief history chemical thermodynamics)	printed	Supplementary Book "Technical University"2014	p 119	A. Sarukhanishvili, Bibileishvili, M. Kapanadze, E. Nikoleishvili

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41	About the rational use of Chiaturi manganese ores	printed	Business engineering, №1, 2014	p 5	N. Tsereteli, K. Tsereteli
42	Obtaining sialons by nitro-aluminum thermal processes	printed	"Ceramics" Journal of the Association of Georgian Ceramicists # 2 (32), 2014	p 9	Z. Kovziridze, N. Nizharadze, G. Tabatadze, T. Cheishvili, N. Darakhvelidze, Z. Mestvirishvili, E. Nikoleishvili
43	Investigation of metallurgical properties of new concentrates obtained from Chiaturi manganese deposit	printed	Business engineering 2014, №24	p 4	N. Tsereteli, K. Tsereteli
44	Obtaining of Nanocomposites in SiC-SiAlON and Al ₂ O ₃ -SiAlON System by Alumothermal Processes	printed	Journal of Electronics Cooling and Thermal Control, 2014, 4, *Published Online December 2014 in SciRes. http://www.scirp.org/journal/jectcSA , Delaware	p 12	Z. Kovziridze, N. Nizharadze, G. Tabatadze, T. Cheishvili, Z. Mestvirishvili, E. Nikoleishvili, N. Darakhvelidze
45	The nature of the interaction of boron-free, fluoride-free enamel from to surface of steel	printed	Proceedings of the Technical University of Georgia. #1 (487) 2013	p 6	I. Zedgenidze, A. Sarukhanishvili, M. Kapanadze
46	Production of high-refractory clinker on the basis of new deposits of dolomite and serpentinite	printed	Proceedings of the international scientific-practical conference. Kutaisi, 6-7 ivnisi, 2013	p 4	Z. Kovziridze, N. Nizharadze, M. Balakhashvili
47	Improvement of Boron Carbide Mechanical Properties in B ₄ C-TiB ₂ And B ₄ C-ZrB ₂ Systems	printed	Journal of electronics cooling and thermal control, vol.3 No.2, 2013. Delaware, USA	p 5	Z. Kovziridze, N. Nizharadze, G. Tabatadze, E. Nikoleishvili, Z. Mestvirishvili
48	Composite stable to corrosive media in SiC-Al ₂ O ₃ -Si ₂ ON ₂ system	printed	Journal of electronics cooling and thermal control, vol.3 No.2, 2013. Delaware, USA	p 6	Z. Kovziridze, G. Tabatadze, N. Nizharadze, E. Nikoleishvili, Z. Mestvirishvili

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49	Georgian dolomites and serpentinites for production of refractory materials	printed	Journal of the Association of Ceramicists of Georgia "Ceramics №2 (30), 2013	p 5	Z. Kovziridze, N. Nizharadze, M. Balakhashvili
50	Practical calculations using the laws of chemical thermodynamics	printed	Supplementary Book "Technical University" 2013	p 76	A. Sarukhanishvili, M. Kapanadze
51	Fluoride-free primers and their adhesion to steel	printed	The Journal of the Association of Ceramicists of Georgia "Ceramics" 1 (27). 2012	p 9	I.Zedgenidze, A.Sarukhanishvili, M.Kapanadze
52	Processes of sintering and mineral formation at firing of dolomite and serpentinite mix	printed	2nd International Conference for Students and Young Scientists on Materials Processing Science, Tbilisi, Georgia, 10-13 October 2012	p 10	Z.Kovziridze,N.Nich aradzeM. Balakhashvili, E. Nikoleishvili
53	Stability of manganese-containing alkaline silicate model glasses in acid environments	printed	International scientific-practical conference "Innovative technologies and environmental protection", collection of works,2012	p 3	M. Kapanadze, T. Cheishvili
54	Spectrometric study of reagents to study the chemical stability of glass.	printed	International scientific conference dedicated to the memory of academician T. Loladze . collection of scientific works. 2011	5p	M.Kapanadze; T. Tcheishvili
55	R2O-MnO-B2O3 glasses electrical conductivity	printed	International scientific conference, Current issues of applied physics », 2011	4p	N. Gambashidze T. Tcheishvili; M.Kapanadze; A. Sarukhanishvili

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56	Study of dolomite from the skuri deposit for receiving high refractory composite	printed	1st international conference for students and young Scientists on materials processing science, Tbilisi, Georgia 10-13 October 2010, Journal of Association of Ceramicists of Georgia "Ceramics". 1(24),	8p	M.Balakhashvili, Z. Kovziridze, N.Nizharadze, D. Gvenetadze
57	Effect of carbon additives and binders Dolomite serpentinite high-refractory composite properties	printed	"Ceramics" magazine of the Association of Ceramicists of Georgia. 1(22), 2010		Z. Kovziridze, N.Nizharadze D. Gventsadze M.Balakhashvili, A. Chitorelidze
58	Nature of surface conductivity of manganese-containing glasses	printed	International scientific-practical Conference "Innovative technologies and Modern materials », Works, 2010	2p	T.Tcheishvili; A.Sarukhanishvili; M.Kapanadze
59	Nature and properties of nano-sized films Manganese-containing glass surfaces	printed	International scientific-practical conference, innovative technologies and Modern materials », Works, 2010	2p	T.Tcheishvili; A.Sarukhanishvili; M.Kapanadze
60	the question of calculating $\cdot H_{0f,298}$, $\cdot G_{f,298}$ and So_{298} silicate compounds	printed	Chemical Journal of Georgia, #1, 2010	3p	A.Sarukhanishvili; M.Kapanadze E. Matsaberidze
61	Physical chemistry for beginners	printed	Help Guide. "Technical University "2009	230p	A.Sarukhanishvili; M.Kapanadze

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62	Theoretical foundations of synthesis of composite materials and products	printed	Methodical instructions for performing laboratory work, published by "Technical" University," 2009	44p	
63	Preparation of composites in SiC-Al ₂ O ₃ -B-Si system To work in aggressive media	printed	Journal of Association of Ceramicists of Georgia "Ceramics". 1(22), 2009	4p	Z. Kovziridze; N. Nizharadze V. Kinkladze
64	Physico-chemical calculations of glass According to the composition of properties	printed	Help Guide. "Technical University" 2008	82p	A.Sarukhanishvili; T. Tcheishvili T. Gvazava; T. Badzoshvili