

List of works of Tamaz Isakadze

№	Name of the scientific work	printed or handwritten	Publishing house, magazine (issue year) or copyright certificate number	Number of pages	Co-authors of the paper
1	New design for improved compressor performance	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2014 No. 3(493) pp. 49-53.	5	T. Megrelidze, V. Gvachliani, G. Gugulashvili, G. Beruashvili
2	Two-stage refrigeration cycle with one rotary compressor, regenerative economizer and refrigerant vapor injection	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2014 No. 4 (494) pp. 28-33.	6	T. Megrelidze
3	Cascade type thermoelectric refrigerator	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2014 No. 4 (494) p. 33-37.	5	T. Megrelidze, G. Gugulashvili G. Megrelidze
4	A method of increasing the efficiency of the sorption type helioenergetic refrigerator	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2015 No. 3(497) p. 102-108	7	T. Megrelidze, G. Gugulashvili
5	Dry ice refrigerator is an innovative method of reducing car energy consumption	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2015 No. 3(497) p. 109-113	5	T. Megrelidze, G. Gugulashvili

6	compression refrigerator Increasing the efficiency of the car evaporative condenser	printed	International scientific conference on technological processes and equipment problems of the food industry. (collection of works) Tbilisi Technical University 2015 p.185-189	5	Megrelidze T.I., Gugulashvili L.T.
7	refrigerator Increasing the efficiency of machines and heat exchangers through modernization	printed	International scientific conference on technological processes and equipment problems of the food industry. (collection of works) Tbilisi Technical University 2015 p. 194-199	6	Megrelidze T.I., Gugulashvili L.T.
8	Liquid ring in the working chambers of the liquid ring compressor Determination of condition conditions	printed	International scientific conference on technological processes and equipment problems of the food industry. (collection of works) Tbilisi Technical University 2015 p. 219-224	6	Megrelidze T. I., Gugulashvili G.L., Beruashvili G.Sh.
9	Study of adhesive properties of food masses containing pectin	printed	International scientific conference on technological processes and equipment problems of the food industry. (collection of works) Tbilisi Technical University 2015 p. 117-121	5	Goletiani G.S., Gugulashvili L.
10	Solar powered Experimental study of absorption-diffusion refrigeration machine	printed	International Scientific Practical Conference on Innovative Technologies for the Production of Functional Purpose Food Products (Collection of Works) Kutaisi Technical University 2015 p.487-490	4	Megrelidze T. I., Gugulashvili L.
11	Power supply for household refrigerator cars	printed	87th international conference of students (collection of works) Tbilisi Technical University 2015	1	-

	Reduction by the method of intensification of cooling of condensers.				
12	Environmentally safe hydropower New construction of the device	printed	International Scientific Conference Sustainable Energy: Challenges and Development Prospects (collection of reports) Kutaisi 2015 p. 307-310	4	Megrelidze T. Gugulashvili L., Sadaghashvili E., Pirveli.G, Gugulashvili G.
13	Testing of ship's refrigeration equipment directly under craft conditions	printed	II International Conference "Innovative Challenges of Maritime Industry: Maritime Transport, Engineering Technologies, Logistics, Tourism" Batumi 2016 p. 90-94	5	T. Megrelidze, Z. Shubladze, c. Gugulashvili,
14	A new design of the fan for working in the refrigerating chamber	printed	International Scientific-Practical Conference "Modern Engineering Technologies and Environmental Protection" Kutaisi 2016 p. 298-300	3	T. Megrelidze, e. Sadaghashvili, c. Gugulashvili, c. Beruashvili
15	Restoring the drying ability of the working agent of the new drying unit by an innovative method	printed	Tbilisi. Technical University Scientific refereed journal Science and Technology 2016 No. 1(721) pp. 67-71	5	T. Megrelidze, G. Pirveli, G. Gugulashvili, G. Beruashvili,
16	Transcritical refrigeration systems	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2016 No. 3(501) p. 92-96	5	T. Megrelidze,
17	Energy savings in natural gas liquefaction with a two-stage vapor refrigerator on a car compressor drive	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2016 No. 3(501) p. 97-103	7	T. Megrelidze
18	Innovative methods of increasing the efficiency of casing heat exchangers	printed	International scientific conference dedicated to the 70th anniversary of the establishment of the "Equipment of	4	T. Megrelidze, G. Goletiani,

			Food Industry Enterprises" Chair, Tbilisi 2016 p.172-175		
19	Entropy-statistical study of classic and economizer refrigeration cycles	printed	International scientific conference dedicated to the 70th anniversary of the establishment of the "Equipments of Food Industry Enterprises" Chair, Tbilisi 2016 p.178-185	8	-
20	Tubular heat exchangers in refrigeration equipment	printed	International scientific conference dedicated to the 70th anniversary of the establishment of the "Equipment of Food Industry Enterprises" Chair, Tbilisi 2016 p. 190-195	6	T. Megrelidze, G. Goletiani, Z. Shubladze, G. Beruashvili
21	Replacing the rotary compressor drive with an inverter drive	printed	International scientific conference dedicated to the 70th anniversary of the establishment of the "Equipment of Food Industry Enterprises" Chair, Tbilisi 2016 p. 204-207	4	-
22	Refrigeration compressors. Methodological guidelines for performing laboratory work.	manual	Technical University of Georgia 2015 p. 1-166	166	T. Megrelidze, G. Goletiani, G. Gugulashvili
23	Refrigeration screw and scroll compressors.	manual	Technical University of Georgia 2015 pp. 1-122	122	T. Megrelidze, G. Gugulashvili,
24	Refrigerated vehicles Methodical guidelines for practical work	manual	Technical University of Georgia 2015 pp. 1-92	92	T. Megrelidze, G. Gugulashvili,
25	Basics of designing refrigeration units.	manual	Technical University of Georgia 2016 pp. 1-204	204	T. Megrelidze, Z. Japaridze, G. Goletiani, G. Gugulashvili, G. Beruashvili,

26	Basic technological issues of air conditioning	manual	Technical University of Georgia 2016 pp. 1-227	227	T. Megrelidze, G. Goletiani, G. Beruashvili, G. Gugulashvili, Z. Lazarashvili
27	Cascade type innovative refrigerator machine	printed	Technical University of Georgia refereed journal Science and Technology No. 1 (724) p.93-99	7	T. Megrelidze G. Gugulashvili
28	Universal split air conditioner working in an extended range of ambient air temperature	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2017 No. 1(503) pp. 87-92.	7	T. Megrelidze G. Gugulashvili
29	Vibrating bed drying machine for loose materials with a working agent pulsator	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2017 No. 3(505) p. 126-132	7	T. Megrelidze G. Gugulashvili
30	Universal cabinet refrigerator-conditioner	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2017, No. 3(505), p. 133-137	6	T. Megrelidze G. Gugulashvili
31	Carbon Dioxide Refrigerated Vehicles	printed	89th international conference of students (collection of works) Tbilisi Technical University 2017	1	-
32	New technology of food-medicinal plant raw materials processing	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2018. No. 1(507) p. 56-64	9	T. Megrelidze G. Gugulashvili
33	Cascade type thermoelectric car refrigerator	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2018. No. 1(507) p. 64-72	9	T. Megrelidze G. Gugulashvili
34	Propane-powered absorption refrigerator	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical	8	T. Megrelidze G. Gugulashvili

			University. 2018, No. 2(508), p. 47-53		
35	Refrigerant evacuation vehicle of innovative design	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2018, No. 2(508), p. 54-59	6	T. Megrelidze G. Gugulashvili
36	Utilization and recycling of car tires using cryogenic techniques	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2018 No. 3(509) p. 142-147	6	T. Megrelidze G. Gugulashvili
37	Vacuum pump of innovative construction	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2018, No. 3(509), pp. 136-141	6	T. Megrelidze G. Gugulashvili
38	Drying of agricultural products using liquid nitrogen	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2018, No. 4(510), pp. 68-73	6	T. Megrelidze G. Gugulashvili
39	Use of sublimation drying to preserve the quality of food products	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2018, No. 4(510), p. 88-93	6	T. Megrelidze G. Gugulashvili
40	Modern practice of servicing refrigeration systems	Lecture course	Technical University of Georgia 2018 p.1-147 CD-4966	147	T. Megrelidze G. Goletiani G. Gugulashvili
41	Refrigeration machinery installation and technical. service	Lecture course	Technical University of Georgia 2018 p.1-136 CD 4847	136	T. Megrelidze G. Goletiani G. Gugulashvili
42	Thermal calculation of refrigerator cars	Lecture course	Technical University of Georgia 2018 p.1-64 CD-4946	64	T. Megrelidze, G. Goletiani, G. Gugulashvili, G. Beruashvili

43	Cryogenic technique	Lecture course	Technical University of Georgia 2018 p.1-117 CD 4846	117	T. Megrelidze G. Goletiani G. Gugulashvili
44	Theoretical foundations of refrigerator cars	Lecture course	Technical University of Georgia 2018 p.1-124 CD-4707	124	T. Megrelidze, G. Goletiani, G. Gugulashvili, G. Beruashvili
45	Refrigeration technology of food products	Lecture course	Technical University of Georgia 2018 pp. 1-95 CD-4968	95	T. Megrelidze, G. Goletiani, G. Gugulashvili, G. Beruashvili
46	Practical work in air conditioning	Lecture course	Technical University of Georgia 2018 p.1-46 CD-5157	46	T. Megrelidze, G. Goletiani, G. Gugulashvili,
47	Heat transfer devices of refrigerator cars	Lecture course	Technical University of Georgia 2018 p.1-126 CD-4708	126	T. Megrelidze, G. Goletiani, G. Gugulashvili, G. Beruashvili
48	An innovative tunnel-type device for thawing and drying frozen fish	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2019, No. 2(512), pp. 89-95	7	T. Megrelidze, G. Gugulashvili
49	Innovative design two-stage rotary compressor	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2019, No. 2(512), pp. 96-102	7	T. Megrelidze, G. Gugulashvili
50	Possibility of two-stage compression of the refrigerant in the piston compressor cylinder	printed	Technical University of Georgia refereed journal Science and Technology No. 2 (731) pp. 45-51	7	L. Gugulashvili E. Sadaghashvili, G. Gugulashvili
51	New method of food product drying	printed	Technical University of Georgia refereed journal Science and Technology No. 2 (731) p. 73-78	6	G. Gugulashvili L. papava, E. Sadaghashvili,

					M. Razmadze
52	Hydroaerosol technology of cold processing of fruits and vegetables	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2019, No. 3(513), pp. 54-60	7	G. Goletiani G. Gugulashvili
53	An innovative diagnostic modulator for the reciprocating compressor of a household refrigerator	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2019, No. 3(513), p. 61-67	7	G. Goletiani G. Gugulashvili
54	An innovative method of drying the refrigerator circuit	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2019 year N4 (514). p. 118-123	6	T. Megrelidze, G. Gugulashvili
55	A new device for complete removal of moisture from the air	printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2019 year N4 (514). p. 124-131	8	T. Megrelidze, G. Gugulashvili
56	The possibility of making a beverage similar to Paraguayan mate tea from the Caucasian rhododendron	printed	Proceedings of the international scientific practical conference "Actual problems of food production and modern technologies" Kutaisi February 20-21, 2020 286-290 p.	5	T. Megrelidze, S. Buchukuri- Sologhashvili,
57	The possibility of simultaneously compressing two working agents in a single-piston compressor	Printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2020. N2 (516). p. 117-124	8	T. Megrelidze, G. Gugulashvili
58	The possibility of two-stage compression of the refrigerant in the piston compressor cylinder	Printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2020. N2 (516). p. 125-132	8	T. Megrelidze, G. Gugulashvili
59	Theoretical bases of cooling, freezing and storage of food products	Lecture course	Technical University of Georgia 2018 p.1-124 CD-6309	86	L. Kobakhidze T. Megrelidze G. Gugulashvili

60	New household air conditioner with air humidification function	Printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2020. N3 (517). p. 88-94	7	T.Megrelidze, G.Gugulashvili
61	POSSIBILITY OF OBTAINING A CAUCASIAN DRINK FROM RHODODENDRON WITH A TASTE AND AROMAS SIMILAR TO MATE TEA	Printed	Integration of education, science and business in the current environment: summer debates: additional abstracts. II International Scientific and Practical Internet Conference, September 17-18, 2020 – Dnipro, 2020. – 562 p.	3	Gvachliani V., Gugulashvili G.
62	Combined, Thermoelectric cookware to maintain the quality of products for military personnel	Printed	Sokhumi State University Ivane Javakhishvili Tbilisi State University CHEMICAL AND TECHNOLOGICAL ASPECTS OF BIOPOLYMERS Tbilisi 2020 184-189	6	G.S. Goletiani
63	Use of cryoagent to eliminate oil and products pollution	Printed	Sokhumi State University Ivane Javakhishvili Tbilisi State University CHEMICAL AND TECHNOLOGICAL ASPECTS OF BIOPOLYMERS Tbilisi 2020 195-198	4	G. L.Gugulashvili, L.V. Tabatadze
64	Innovative technology of Caucasian Rhododendrons tea making	Printed	Sokhumi State University Ivane Javakhishvili Tbilisi State University CHEMICAL AND TECHNOLOGICAL ASPECTS OF BIOPOLYMERS Tbilisi 2020 47-53	7	G. L. Gugulashvili
65	Innovative technology of making tea ~Mate~.	Printed	Annals of Agrarian Science. Vol. 18. 2(2020). pp. 216-219.	4	T.Megrelidze, G.Gugulashvili
66	The Possibility of Obtaining Tea Such As Paraguayan Mate From	Printed	European Science Review. # 1-2(2020). JanuaryFebruary. Vienna 2020. pp. 73-77.	5	T.Megrelidze, L.Tabatadze, G.Gugulashvili,

	The Caucasian Rhododendron.				K.Kintsurashvili, T.Kopaliani
67	Mobile refrigeration systems. course of lectures.	Lecture course	Technical University of Georgia e-version. Summer 2020 100 p. Stu library CD-6479	100	L. Kobakhidze
68	Refrigeration units for undergraduate qualification thesis	Lecture course	Technical University of Georgia e-version.tb. 2020 90 p. Stu Library CD-6478	50	L. Kobakhidze
69	Service of food and refrigeration equipment	Methodological instructions for performing laboratory work.	Tbilisi. Stu. 2018 - 35 p. Stu Central Library CD 6349	35	G. Goletiani, Z. Lazarashvili, G. Gugulashvili
70	Innovative technology of rapid cooling of vegetable products with gaseous nitrogen	Printed	Technical University of Georgia Scientific and Technical Journal "Transport and Mechanical Engineering": N3(49)2020 p.100-105	6	G. Goletiani G. Gugulashvili M.Tsagareishvili
71	A refrigerating machine using water as a refrigerant	Printed	Technical University of Georgia Scientific and Technical Journal "Transport and Mechanical Engineering": N3(49)2020 p.106-111	6	G. Goletiani G. Gugulashvili M.Tsagareishvili
72	On the issue of industrial use of Rhododendron caucasicum Pall. and Rhododendron pontikum L.	Printed	Annals of Agrarian Science. Vol. 19. 1(2021). pp. 63-67.	5	V.Gvachliani, , G.Gugulashvili
73	The possibility of using fine shavings and dust of some herbal raw materials with the help of new capsules	Printed	Scientific and technical journal "Construction" No. 3 (56) 2020. 42-46 p. Tbilisi 2020	5	S. Buchukuri-Sologhashvili, V. Ghvachliani, G. Gugulashvili
74	Drying of Caucasian rhododendron using gaseous nitrogen	Printed	Scientific and technical magazine "Transport and Machine Building" No. 1 (50) 2021. 160-167 p. Publishing House "Transport and Machine Building" Tbilisi 2021.	8	S. Buchukuri-Sologhashvili, V. Ghvachliani, G. Gugulashvili

75	results laboratory studies of Caucasian Rhododendron samples obtained by different technological ways.	Printed	. 1st International Scientific and Practical Internet Conference The impact of COVID-19 Pandemic on Development of modern world: threats and opportunities~. September 9-10, 2021-Dnipro, Ukraine, 2021 pp. 101-103.	3	V. Gvachliani, G. Goletiani, Z. Lazarashvili, G. Gugulashvili
76	Mobile refrigeration systems. course of lectures.	Lecture course	Technical University of Georgia e-version. Tb. 2021 100 p. Stu library CD-6738	100	—
77	Refrigeration units for undergraduate qualification thesis	Lecture course	Technical University of Georgia e-version.tb. 2021 54 p. Stu Library CD-6739	54	—
78	Carbon Dioxide Recovery Using a Rank-Khilsch-Vicher Tube During cold processing of food products	Printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2021. N3 (521). p. 109-114	6	G. Gugulashvili
79	The effect of cooling operation mode on the energy efficiency of the refrigerator car	Printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2021. N3 (521). p. 102-108	7	G. Gugulashvili
80	Fundamentals of technological air conditioning (methodical instructions for performing laboratory work)	Lecture course	Technical University of Georgia e-version.tb. 2021 54 p. Stu Library CD-6351	54	G. Goletiani, Z. Lazarashvili, G. Gugulashvili.
81	Caucasian rhododendron crushing-fixing machine	Printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2021. N3 (522). p. 13-18	6	V. Ghwachliani G. Gugulashvili

82	A new device for the processing of Caucasian rhododendron	Printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2021. N3 (522). p. 21-27	7	S. Buchukuri Sologhashvili G. Gugulashvili
83	Biotechnological basis of tea production	Monograph	Technical University of Georgia Publishing House 2022	125	G. Goletiani V. Ghwachliani Z. Lazarashvili G. Gugulashvili
84	Food storage and transportation technology	Lecture course	Tbilisi: Stu. 2022 - 85 p. Stu's. Central Library CD-6915	85	-
85	"Refrigerated transport of food products"	Methodological instructions for performing laboratory work	Tbilisi: Stu. 2022 - 46 p. Stu's. Central Library CD 6916	46	-
86	Results of a biochemical study of rhododendron roots	Printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2022. N3 (525). pp. 55-61	7	V. Ghwachlian, G. Gugulashvili.
87	"Results of a biochemical study of a freeze-dried sample of Caucasian rhododendron"	Printed	Scientific refereed journal "Science and Technologies" No. 2(739) 2022. p. 55-60.	6	V. Ghwachlian, G. Gugulashvili
88	"Green tea leaf fixing and twisting device"	Printed	Proceedings of the 6th Georgian-Polish International Scientific Conference "Transport Bridge Europe-Asia". p. 52-56. Dedicated to the 100th anniversary of Stu. 2022 Tbilisi.	5	G. Goletiani, Z. Lazarashvili, G. Gugulashvili, M. Tikanashvili
89	Obtaining high-quality products by parallel processing of black and green tea	Printed	Scientific and technical journal "Transport and Machine Building" No. 2 (54) 2022. 167-175 p.	8	G. Goletiani, Z. Lazarashvili, G. Gugulashvili, M. Tikanashvili
90	Air coolers with microfiring of the inner surfaces of pipes	Printed	Scientific and technical journal "Transport and Machine Building" No. 2 (54) 2022. 160-167 p.	8	G. Goletiani, Z. Lazarashvili, G. Gugulashvili, M. Tikanashvili

91	"Designing a cold storage plant for food products"	Lecture course	Tbilisi: Stu. 2022 - 156 p. Stu's. Central Library CD 6914	156	G. Goletiani, Z. Lazarashvili, G. Gugulashvili
92	"Air conditioning in food production"	Lecture course	Tbilisi: Stu. 2022 - 122 p. Stu's. Central Library CD 6913	122	G. Goletiani, Z. Lazarashvili, G. Gugulashvili
93	An experimental study of the use of flexible capillary tubes in cryomedicine	Printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2022. N4 (526). p. 72-77	6	G. Gugulashvili
94	Grape crushing-transport equipment	Printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2022. N4 (526). p. 91-97	7	Z. Lazarashvili, G. Gugulashvili
95	Test results of an innovative thermoelectric device for intracavitary hypothermia	Printed	Scientific and technical-refereed journal Energy 3-4(103-104)/2022 p.65-71	7	L. Papava G. Gugulashvili
96	An innovative method of reducing energy demand in the air conditioning system of an artificial ice field	Printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2023. N1 (527). p. 96-101	6	G. Gugulashvili
97	A hybrid system for supermarkets using refrigerants with low global warming potential	Printed	Proceedings of Technical University of Georgia. Tbilisi. Technical University. 2023. N1 (527). p. 102-108	7	G. Goletiani, G. Gugulashvili
98	Drying device of innovative design, powered by a refrigeration unit	Printed	Scientific and Technical Journal "Transport and Mechanical Engineering" No. 1 (56) 2023. 68-72pp.	5	Vakhtang Kirtadze, Givi Goletiani, Givi Gugulashvili, Zurab Lazarashvili
99	Motor transport with refrigeration equipment	Printed	Proceedings of the Georgian Technical University. Tbilisi. Technical University. 2023.N2 (528).p. 55-62	8	Givi Gugulashvili, Zurab Lazarashvili

100	Possibility of making fresh jam from fruits and vegetables	Printed	Scientific refereed journal Science and Technology 2023 N 1 (741) pp. 85-90	6	Givi Goletiani, Givi Gugulashvili, Zurab Lazarashvili Eter Sadaghashvili
101	Air-cooled piston device	Printed	Scientific and Technical Journal "Transport and Mechanical Engineering" No. 2 (57) 2023. 34-39 pp.	6	Vakhtang Kirtadze, Givi Goletiani, Givi Gugulashvili, Zurab Lazarashvili
102	THERMOACOUSTIC REFRIGERATION SYST	Printed	ISC CHTAB 2023 2th International Scientific Conference on Chemical & Technological Aspects of Biopolymers 6-8 july pp.35	1	Givi Gugulashvili, Lali Tabatadze
103	RESULTS OF BIOCHEMICAL INVESTIGATION OF DRIED ROOTS OF CAUCASIAN RHODODENDRON	Printed	ISC CHTAB 2023 2th International Scientific Conference on Chemical & Technological Aspects of Biopolymers 6-8 july pp.55	1	G. Goletiani, Z. Lazarashvili G. Gugulashvili
104	Wind-powered generator	Printed	Scientific refereed journal Science and Technology 2023 N 2 (742) pp. pp.33-38	6	L.Papava M.Razmadze G.Gugulashvili
105	Grape press pneumatic press	Printed	Scientific refereed journal Science and Technology 2023 N 3 (743) pp. pp.72-77	6	Givi Goletiani, Givi Gugulashvili, Zurab Lazarashvili
106	Innovatively designed three-chamber household refrigerator	Printed	Scientific and Technical Refereed Journal Energy 2023 N4(108) pp.37-41	5	L.Papava M.Razmadze G.Gugulashvili
107	Oscillating drying device	Printed	Proceedings of the Georgian Technical University. Tbilisi. Technical University. 2024.N1 (531).p. 202-209	8	გივი გოლეტიანი, გივი გუგულაშვილი,

108	Air-cooled piston device	Printed	Proceedings of the Georgian Technical University. Tbilisi. Technical University. 2024.N1 (531).p. 211-217	7	Givi Gugulashvili, Zurab Lazarashvili
109	Thermoacoustic cooling system	Printed	Scientific and Technical Refereed Journal Energy 2024 N1(109) pp.60-65	6	L.Papava M.Razmadze G.Gugulashvili
110	Innovatively designed mobile air conditioner	Printed	Proceedings of the Georgian Technical University. Tbilisi. Technical University. 2024.N2 (532).p. 232-237	6	G. Gugulashvili
111	Innovatively designed three-circuit heating-cooling boiler	Printed	Proceedings of the Georgian Technical University. Tbilisi. Technical University. 2024.N2 (532).p. 238-243	6	G. Gugulashvili
112	Grape crushing and crushing equipment	Printed	Scientific refereed journal Science and Technology 2024 N 2 (745) pp. pp.39-42	4	Givi Gugulashvili, Zurab Lazarashvili
113	Musical instrument of innovative design	Printed	at the 7th International Scientific Conference «Foundations and Trends in Research» (September 5-6, 2024). Copenhagen, Denmark	1	Givi Goletiani, Givi Gugulashvili, Zurab Lazarashvili
114	The ability to maintain the quality of food products when transported across the Europe-Asia transport bridge.	Printed	8th Georgian-Polish International Scientific Conference “Transport Bridge Europe-Asia”. October 16-18, 2024, Tbilisi, Georgia. pp. 234-242.	9	A. Lazarashvili, G. Goletiani, Z. Lazarashvili, G. Gugulashvili.
115	Refrigerated container for storing fruits and vegetables	Printed	Scientific refereed journal Science and Technology 2024 N3 (746), pp. pp. 41-46	6	Z. Lazarashvili, G. Gugulashvili.
116	High-efficiency heat exchanger design for liquids	Printed	Proceedings of the Georgian Technical University. Tbilisi. Technical University. 2024.N3 (533).p. 214-219	9	Z. Lazarashvili, G. Gugulashvili.

117	Acoustic shock freezing device	Printed	Proceedings of the Georgian Technical University. Tbilisi. Technical University. 2024.N3 (533).p. 220-226	7	A. Lazarashvili, Z. Lazarashvili, G. Gugulashvili.
118	A system for creating a comfortable microclimate in the room	Printed	Proceedings of the Georgian Technical University. Tbilisi. Technical University. 2024.N4 (534).p. 172-180	9	Givi Goletiani, Givi Gugulashvili
119	Practical work in the automation of technological processes in food enterprises.	Printed	Tbilisi: GTU. 2025-33 p. GTU Central Library CD-7504	33	Givi Gugulashvili

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