List of scientific works

Professor Grigol Khelidze

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N⁰	Title of scientific work	tific work ed or hand writt number, year) or copyright		Number of printed pages	Last name of the co-author		
1	2	3	4	5	6		
1	Determination of seismic pressure of water in a simple HPP pressure system taking into account flow interruption and cavitation (in Russian)	print ed	Union Conference of Young Scientists and Specialists "Construction of HPPs in Mining Conditions", theses of reports, Poti, 1982	2			
2	Methodology for calculating hydraulic shock in pipelines in the presence of volumetric cavitation (in Russian)	print ed	Proceedings of the XX Congress of the International Association of Hydraulic Research, Moscow, 1983, vol. III, p. 407-413	7	G. Mamradze J. Killasonia		
3	Investigation of the dynamic interaction of the stem element with the water area by the method of electrohydrodynamic analogy (in Russian)	print ed	A collection of scientific works of the Scientific Research Institute of Energy and Energy Buildings of Georgia. Studies of hydraulics and water management of buildings. 1984, pp. 14-18	5	G. Mamradze		
4	Numerical method of determining the seismic pressure of water taking into account the permeability of the liquid in the inlet section of the pressure pipeline (in Russian)	print ed	Deposited in Informenergo, bibliographic badger (Union Institute of Scientific and Technical Information), deposited scientific works, 1984., #6, p.152	8			
5	Determining the dynamic parameters of the elastically supported arch dam by the variational stem method for different levels of reservoir treatment (in Russian)	print ed	Quality and reliability of building materials and structures in seismic construction. Union School of Young Scientists and Specialists Seminar. Theses of reports, Batumi, 1984.	2	A. Verkhovich		
6	Determining the seismic pressure of water in the pressure pipeline taking into account the compressibility of water in the inlet cross-section at the time of setting the boundary condition as a spatial problem (in Russian)	print ed	Deposited in Infor¬mener-Go. Bibliographic index (Union Institute of Scientific and Technical Information) deposited scientific works. 1986., #25, p.177	6	G. Mamradze		

1	2	3	4	5	6
7	Determining the degree of influence of fluid compressibility on the boundary condition in the inlet section during hydraulic shock (in Russian) Consideration of undissolved air in	print ed print	Deposited in Informaner. Bibliographical Badger-Nebel (Union Institute of Scientific and Technical Information) deposited scientific works. 1986., #6, p.188 Materials of the union conference	7	
	water during hydraulic shock with flow interruption and cavitation (in Russian)	ed	of young specialists "Construction of hydropower plants in high mountain conditions", Tskaltubo, 1986., p. 70		
9	Determination of dynamic (seismic) water loads in HPP pressure pipelines taking into account flow interruption and cavitation (in Russian)	print ed	Union Scientific and Technical Information Center. Algorithms and Software Newsletter #6, 1986, p.17	15	
10	Dynamic (seismic) water load report program taking into account flow interruptions, cavitation and initial air entrapment in HPP pressure pipelines (in Russian)	print ed	Union Scientific and Technical Information Center. Algorithms and Programs Newsletter #10, 1987, p.20	20	
11	Flow energy extinguishing device (in Russian)	print ed	USSR copyright certificate #1392189., 30.04.88 Bulletin #16	5	L. Kvaratskelia
12	Determination of seismic pressure of water in complex pressure systems of HPPs and HPPs taking into account flow interruption, cavitation and initial air content (in Russian)	print ed	fig. Collection of the third scientific works of the Scientific Research Institute of Energy and Energy Buildings. Studies on issues of energy development, seismic resistance and dynamic reliability of energy facilities under construction in mining conditions. Moscow, Energoatomizdat, 1988, pp. 97- 100	3	G. Mamradze
13	How to draw the front part of the tunnel portal (in Russian)	print ed	fig. USSR Copyright Certificate #1444469, 15.12.88, Bulletin #46		V. Ilushin G.Chumburidze N. Twaliashvili
14	About the effect of air not dissolved in water on dynamic water loads in HPP and HPP pressure systems (in Russian)	print ed	fig. Sat. Collection of works of the Science and Research Institute of Energy and Energy Buildings. Hydraulic studies in solving the problems of using water resources of mountain rivers. Moscow, 1989, pp. 121-130	9	G. Mamradze
15	Deep water intake (in Russian)	print ed	USSR Copyright Certificate #1500726, 15.08.89, Bulletin #30		V. Ilushin V. Lomtatidze L.Kvaratskhelia

16	Seismic stressed-deformed state of	print	Deposited in Informenergo,	6	J. Killasonia
	underground hydropower plants placed	ed	bibliographic index (Union		
	in an anisotropic rock massif (in		Institute of Scientific and		
	Russian)		Technical Information) Deposited		
			Scientific Works, 1987, #11, p.176		
17	Algorithm for determining the plane	print	All-Union Scientific and	15	J. Killasonia
	stress-deformed state of underground	ed	Technical Information Center.		N. Albutashvili
	hydrotechnical structures taking into		Algorithms and Programs		
	account the heterogeneity, anisotropy		Newsletter #8, 1988, p.14		
	and internal seismic pressure of the				
	ground massif (in Russian)				
18	3 Stress-deformation analysis of	print	Hydrotechnical construction, #9,	6	J. Killasonia
	hydrotechnical tunnels (in Russian)	ed	1990 p. 16-18		N. Albutashvili
1	2	3	4	5	6
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17	Investigation of crack formation by the	print	Seismic resistance of energy	0	J. Killasonia
	finite element method in the	ed	facilities. Interdepartmental		N. Albutashvili
	constructions of underground		collection of B. Vedeneev house.		
	hydrotechnical facilities and		"Vniig" 1990, pp. 181-184		
	surrounding mining massifs during				
	seismic impact (in Russian)				
20	Prognostic computer model of the	print	resp. science Tech. conference	4	J. Killasonia
	deformations of the mountain massif	ed	"Problems of using natural		N. Albutashvili
	surrounding the reservoir		resources in the mining industry,		

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			energy and transport", works,		
			Tbilisi, 1995, p. 62-64		
21	Modern state of the problem of	print	Bulletin of the Georgian Academy	6	J. Killasonia
	predicting deformations of soil arrays	ed	of Sciences, vol. 154, #3, 1996. p.		
	and current tasks (in English)		394-396		
22	Determining the spatial stress-deformed	print	Energy, #2, 1997, pp. 74-78	5	
	state of the soil array using mechanical	ed			
	rheological models				
23	Mathematical modeling of the	print	fig. Wimaco Publishers,	32	J. Killasonia
	deformations of the mountain massifs	ed	Haifa-Carmiel, Israel, 1997		
	surrounding the reservoirs (in English)				
24	Algorithm for calculating the spatial	print	Proceedings of the International	7	J. Killasonia
	stress-deformed state of the mining	ed	Symposium "Problems of		
	massif taking into account depth creep		Mechanics of Continuous Bodies",		
	and seismic impact		Stu, Tbilisi, 1997, pp. 1-7		
25	Investigating the stability of coastal	print	Energy, #4, 1997, pp. 13-18	6	J. Killasonia
	slopes of the Zhinvali reservoir taking	ed			N. Albutashvili
	into account the Seismic effect				
26	Numerical analysis of the stress-	print	Energy, #4, 1997, pp. 42-47	6	J. Killasonia
	deformed state of the coastal slopes of	ed			
	the reservoir taking into account the				
	variation of water levels in the				

	reservoir and the mountain massif on				
	the example of the Toki landslide				
27	Computer modeling of the catastrophic	print	Energy, #1(5), 1998, p.95-103	7	J. Kilasonia,
	landslide at Vaiont reservour	ed			N. Skhirtladze,
					T. Gvelesiani,
					A. Chanturia
28		• ,		5	
20	Methodology and software complex for	print	Israel Society of Civil Engineers	5	J. Kilasonia,
	forecasting large-scale deformations of	ed	Journal #1, 1998, pp. 46-48		
	the ground surrounding the reservoir				
	(in English)				
29	Mathematical modeling of large-scale	print	Proceedings of Iv. Javakhishvili	6	N. Skhirtladze,
	mining landslides and landslides (in	ed	Tbilisi State University Applied		A. Chanturia
	Russian)		Mathematics. Computer Sciences		
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			34		
30		• .	-	6	
50	For the determination of dynamic	print	Energy #3(11), 1999, pp. 74-78	0	
	water loads in pressure aquifers	ed			
31	For the rehabilitation of the main	print	Proceedings of the international	6	Sh. Gagoshidze
	buildings of the Kvemo Alazni	ed	conference on the hydraulics and		K. Mgeladze
	irrigation system		hydroenergetic issues of bed		P. Iakobashvili
	<u> </u>		processes, pipeline transport and		
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			Tbilisi 2000, pp. 113-115		
			, rr. 110 115		

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32	Experimental determination of	print	Proceedings of the international	6	G. Gigiberia
	filtration loss from pressure derivative	ed	conference on hydraulics and		
	tunnel		hydropower issues of bed		
			processes, pipeline transport and		
			hydrotechnical structures, Stu,		
			Tbilisi 2000, pp. 119-121		
33	On current issues of prediction of	print	Problems of design, construction	7	J. Kilasonia
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	surrounding large water reservoirs		facilities. Proceedings of the		
			International Symposium, GTU		
34	Water hummer in the pressure tract of	print	Energy 4(16), 2000, pp. 62-64	6	G. Kirmela-
	the hydroelectric power plant during	ed			shvili
	the movement of the multi-phase				
	hydro-mixture				
35	A computer model for predicting large-	print	Energy #1-2(17-18) 2001. p. 93-99	8	J. Kilasonia
	scale deformations of mining massifs	ed			
	surrounding large reservoirs and ways				
	of its development (in Russian and				
	English)				
36	Hydroelectric power station with	print	Energy, #3(19), 2001 p.116-117	2	V. Jamardja-
	variable rate	ed			shvili

37				6	
57	Determination of filtration losses in	print	International Symposium	0	G. Gigiberia
	pressure derivative tunnels by means of	ed	"Problems of Reliability and		
	a natural experiment (in Russian)		Safety of Water-Conveying		
			Structures", St. Petersburg, 2002,		
			A33, p.59-65		
38	Concept and technologies of hydrogen	print	International Scientific Engine-	2	V. Jamardja-
	energy for the countries of the Black	ed	ering Conference "Latest Techno-		shvili
	Sea basin		logies-XXI". Department of Ener-		N. Kalabegi-
			gy, Abstracts of reports		shvili
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39	Issues of computer modeling of	print	Geodynamic studies of large dams	6	J. Kilasonia
	rheological processes in mountain	ed	Proceedings of the international		,
	massifs surrounding large reservoirs (in		symposium "Geodynamic risk for		
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			pp. 68-73		
40	About the results of the technical	print	Energy, scientific-technical	5	L. Spasik-Gril,
	examination of the main water-use	ed	journal, jubilee collection		K. Mgeladze,
	dams of Georgia		dedicated to the 10th anniversary		T. Lakirbaya,
			of the establishment of the		K. Bolkvadze,
			Georgian Academy of Energy,		Sh. Gagoshidze
			Tbilisi, 2004, pp. 128-133		
41	Engineer and Society	print	"Technical University" publishing	20	L. Shatakishvili
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42	Study of interruption of the flow of	print	The 13th international	8	G. Kirmelashvi-
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	mixture in pressure pipelines and		transportation of mixtures with		
	measures to prevent it (in English)		solid components, Tbilisi, 2006,		
			pp. 157-165		
43	Determining the economic efficiency	print	Energy, engineering-technical	6	A. Gioshvi-Li,
	of a prospective hydropower facility in	ed	magazine, #3(47), 2008, p.70-73		R. Pataraya
	the schemes of energy use of rivers		6		

1	2	3	4	5	6
44	Effect of air compression on the elastic	print	Energy, engineering-technical	6	G. Kirmelashvi-
	modulus of flow in pipelines of	ed	magazine, #3(47), 2008, p.78-81		li
	pressurized hydraulic transport				
	installations				
45	Estimation of abrasive wear intensity of	print	Intellectual, International Scienti-	5	L. Shatakishvili
	hydroturbine	ed	fic Journal, #8, 2009, p. 148-152		
46		print	GTU, Tbilisi, 2009, 111 p	111	I. Lomidze, P.
	Hydropower installations. Part I	ed			Samsonashvli

47	Hydropower resources, priorities and	print	EEnergy sector capacity building	4	I. Lomidze, L.
40	perspectives of their utilization	ed	project. Kutaisi Ak. Tsereteli State University. International Scientific Conference "Energy: Regional Problems and Development Prospects". May 21-22, 2010, Kutaisi, Georgia. Collection of reports., p. 109-112.		Shatakishvili, Z. Chubinidze
48	Development of recommendations supporting the energy security strategy of Georgia, taking into account the growth of energy demand in the future	print ed	EEnergy sector capacity building project. Kutaisi Ak. Tsereteli State University. International Scientific Conference "Energy: Regional Problems and Development Prospects". May 21-22, 2010, Kutaisi, Georgia. Collection of reports., p. 320-324.	4	I. Lomidze, D. Namgala- dze, G. Arabidze, T. Arshba, T. Alania
49	Possibilities of utilizing the energy- cooling potential of Georgian rivers through the construction of small hydropower plants	print ed	Energy, engineering-technical magazine, #3(55), 2010, p. 24-26	6	R. Pataraya
50	Rational use of water resources through the development of small hydropower.	print ed	International Scientific Conference "Environmental Protection and Sustainable Development" Proceedings "Technical University" 2010	2	i. Lomidze, L. Shatakishvili
51	Safety of hydroelectric power stations with dams in Georgia (in English)	print ed	www.energyonline.ge; Issue 5,june 2011.	4	R. Pataraya, I. Noniev
52	Opinions about the promotion of socio- economic development of the northern R mountainous regions of Georgia by utilizing small hydropower resources. (on the example of Kazbegi district)	print ed	"Hydroengineering" magazine #1- 2(11-12) Tbilisi 2011 p.70-76	7	i. Lomidze b. Barkalaya, L. Shatakishvili
53	Analysis of mining reservoir mining process and its influence on the energy potential of the reservoir	print ed	Energy, engineering and technical magazine, #1(61), 2012, p.29-32	4	M. Basharuli
54	Strengthening of the spillway slab of the surface spillway of Jinvali HPP.	print ed	"Energy" #3(63). 2012 Tbilisi p. 62-67	6	A. Kubanei- shvili, I. Noniev, A. Yuriatin
55	Mtkvari River Energy Use St. Selection of priority HPP within Tbilisi and for construction	print ed	"Energy" #4(64). 2012 Tbilisi p. 51-53.	3	T. Lortkipani- dze, K. Pataraya
56	On the issue of establishing sanitary and environmental releases from hydroelectric power stations	print ed	Georgian Engineering News, #2, 2013, p. 99-101 3	3	i. Lomidze, R. Pataraya, T. Arshba

57	For issues of prediction of abrasive	print	"Intelecti"	magazine,	#2(46),	4	i. Lomidze,
	wear of hydroturbines	ed	Tbilisi, 2013	•			A. Kantaria

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58	Determination of Efficiency of hydroturbines taking into account abrasive wear	print ed	Kutaisi Ak. Tsereteli State University. International Scientific Conference "Energy: Regional Problems and Development Prospects". May 25-26, 2013, Kutaisi, Georgia. Collection of reports., p. 47-49.	3	i. Lomidze, L. Shatakishvili, A. Kantaria
59	Quantitative assessment of hydro turbine abrasive wear and anti-wear measures on the example of Racha HPP	print ed	Georgian Engineering News, No. 3, Tbilisi, 2014, pp. 44-47	5	i. Lomidze, A. Kantaria
60	Investigation of hydroabrasive wear in Francis hydroturbines	print ed	"Energy", Engineering-Technical Journal, No. 4(72), Tbilisi, 2014, p. 54-58	6	i. Lomidze, Z. Chubinidze, A. Kantaria
61	Small hydroelectric power stations - a contributing factor of local and regional development	print ed	Kutaisi Ak. Tsereteli State University. International Scientific Conference "Sustainable Energy: Challenges and Development Prospects". June 18, 2015, Kutaisi, Georgia. Collection of reports., p. 272-276	4	L. Shatakishvili, N. Kikachei- shvili
62	Small hydropower - existing development and development prospects	print ed	Proceedings of the Technical University of Georgia No. 2(496), Tbilisi, 2015, pp. 86-95	10	I. Lomidze, Y. Bijamov
63	Calculating the cost of water spent by the fish pass during the changing level of the upper basin	print ed	Kutaisi Ak. Tsereteli State University. IV international scientific conference "Energy: regional problems and development prospects". 29.10. 2016 Kutaisi, Georgia. Collection of reports., p. 299-302	4	L. Shatakishvili, N. Kikachei- shvili
64	Determining the water consumption corresponding to the unit capacity by natural measurements, in different operating modes of Bakhvi 3 HPP	print ed	Kutaisi Ak. Tsereteli State University. IV international scientific conference "Energy: regional problems and development prospects". 29.10. 2016 Kutaisi, Georgia. Collection of reports., p. 104-108	5	i. Lomidze, Z. Chubinidze, P. Samsona- shvili
65	Hydro-energetic and hydro-mechanical devices of hydroelectric power stations	print ed	"Technical University", Tbilisi, 2017, 150 p	150	I. Lomidze, P. Samsona- shvli
66	Hydrological foundations of hydro- power	print ed	"Technical University", Tbilisi, 2017, 130 p	130	B. Ukleba

1	2	print ed	4	5	6
67	About the expediency of the re- evaluation of the hydro-energy resources of the rivers of Georgia	print ed	Georgian Engineering News. 3'17 No. 3, 2017. pp. 61-65	5	I. Lomidze, B. Pipia
68	Environmental water consumption and its main determining factors	print ed	Georgian Engineering News. 3'17 №3, 2017. G pp. 65-67	2	I. Lomidze, Kh. Chokheli, M. Mardaley- Shvili
69	Assessment of water content of Georgian rivers taking into account existing hydrological data	print ed	"Energy", Engineering-Technical Journal, No. 2(86), Tbilisi, 2018, p. 40-44	5	I. Lomidze, B. Pipia
70	Principles of determination of external protective water consumption of Georgian rivers for hydropower facilities	print ed	"Energy", Engineering-Technical Journal, No. 2(86), Tbilisi, 2018, p. 49-54.	6	I. Lomidze, K. Pataraya, M. Mardalei- shvili
71	Cavitation and Abrasion Effects of the Flow on the Flow Part Elements of the Medium Pressure Francis Hydro Turbine	print ed	Proceedings of the Technical University of Georgia No. 2(508), Tbilisi, 2018, pp. 25-30	6	I. Lomidze
72	Determining the useful volume of day- to-day regulation of the hydroelectric plant	print ed	"Energy", Engineering-Technical Journal, No. 3(87), Tbilisi, 2018, p. 34-38.	5	T. Arshba, Kh. Chokheli
73	Impact of Climate Change on the Flow of Georgian Rivers (in English)	print ed	GTU AND UNIFG 1ST JOINT R&D INTERNATIO-NAL CONFERENCE – DY-NAMICS AND RECENT TRENDS OF VARY INDUS-TRIES IN EU AND GEORGIA: ICTS ADOP-TION IN SUPPLY CHAIN MANAGEMENT, JORDI 2018, pp.89-91	1	B. Pipia
74	Quantitative Assessment of Environmental Water Discharge from Hydropower Stations in Accordance with River Flow Regimes (in English)	print ed	GTU AND UNIFG 1ST JOINT R&D INTERNATIO-NAL CONFERENCE – DY-NAMICS AND RECENT TRENDS OF VARY INDUS-TRIES IN EU AND GEORGIA: ICTS ADOP-TION IN SUPPLY CHAIN MANAGEMENT, JORDI 2018, pp. 87-89	1	M. Mardaleishvili
75	Monitoring of geologically dangerous areas and principles of preventive measures on the example of the Zhinvali reservoir and the Darial valley	print ed	Proceedings of the Technical University of Georgia No. 3(509), Tbilisi, 2018, pp. 125-135	10	J. Kilasonia, G. Jaoshvili
76	Vane pumps UAC.: 621.674	print ed	"Technical University", Tbilisi, 2018, 287 p.	287	I. Lomidze, N. Kutateladze, D. Namgaladze, L. Shatakishvili

77	Basics of applied hydroaeromechanics : UAC: 620.9:532	print ed	"Technical University", Tbilisi, 2018, 290 p	290	I. Lomidze, L. Shatakishvili, T. Kiziria
78	Assessment of the energy potential of Georgian rivers taking into account the climate change factor	print ed	"Energy", Engineering-Technical Journal, No. 1(89), Tbilisi, 2019, p. 71-75.	5	B. Pipia
79	Assessment of environmental water consumption for rivers of different hydrological regimes in Georgia	print ed	"Energy", Engineering-Technical Journal, No. 1(89), Tbilisi, 2019, p. 61-70	10	M. Mardalei- shvili
80	Georgian Small HPP (in English)	print ed	LAP LAMBERT Academic Publishing, Tbilisi 2019. ISBN-978-613-9-47663-3	214	LShatakishvili

1	2	3	4	5	6
81	Small hydropower of Georgia and prospects for its development (in Russian)	print ed	"Hydraulic engineering", scientific and technical journal №8, 2019, pp. 50-52. ISSN OO 16-9714	6	Noniev I.K., Shatakishvili L. A., Shainyan G.A.
82	Quantitative assessment of environmental water discharge from hydropower facilities considering various factors	print ed	Globalization and modern challenges of business, Proceedings of the III International Scientific Conference, Stu. Tbilisi 2019, pp. 421-425	4	L. Shatakishvili, N. Dzagania
83	The influence of climate evolution on the hydropower potential of Georgia	print ed	""Energy" engineering- technical magazine - series: "Modern problems of energy and ways to solve them". No. 3(91)/2019, Part II., Tbilisi. p. 109-113.	5	B. Pipia
84	QUANTITATIVE ASSESSMENT OF HYDROPOWER POTENTIAL BY THE IMPACTS OF CLIMATE TRANSFORMATION ON THE EXAMPLE OF THE RIVERS OF GEORGIA	print ed	RS Global WORLD SCIENCE № 10(50) Vol.1, October 2019, pp. 4-9 DOI: https://doi.org/10.31435/rsglo bal_ws	6	L. Shatakishvili, B. Pipia
85	Çà ðóáåæîì Îöåíêà àâàðèéíîñòè âîäîõðàíèëèùíûõ ãèäðîóçëîâ Ãðóçèè Çà ðóáåæîì Îöåíêà àâàðèéíîñòè âîäîõðàíèëèùíûõ ãèäðîóçëîâ Ãðóçèè Assessment of Accidents at Storage Hydro Power Plants in Georgia (in English)	print ed	Power Technology and Engineering. Content type:OriginalPaper Published: 09 October 2020 https://link.springer.com/jour nal/10749/volumes-and- issues/54-4	6	I. K. Noniev G. A. Shainyan

86	About the environmental hydropower potential of Georgian rivers	print ed	"Energy". No. 1 (93). 2020. Tbilisi. p. 15-19. ISSN 1512-0120	5	B. Pipia M. Mardaleishvili
87	Ecological aspects of the arrangement of energy reservoirs	print ed	"Energy" engineering and technical magazine. No. 2/3 (94/95). 2020. Tbilisi. p. 5-15. ISSN 1512-0120	10	B. Pipia M. Mardaleishvili
88	Safety in hydropower and related environmental issues	print ed	II International Scientific- Eco-Technical Conference "Contemporary Problems of Energy" and ways to solve them", Tbilisi, Georgia, December 7-10, 2020. "Energy" engineering and technical journal. No. 4(96). 2020. Part II. Tbilisi. p. 75- 79. ISSN 1512-0120	5	I. Noniev, L. Shatakishvili, A. Mirtskhulava
89	Determining the flow of the river in the conditions of the deficit of hydrological data. On the example of Mtkvari HPP cascade	print ed	Proceedings of the Technical University of Georgia No. 4(518), Tbilisi, 2020, pp. 113- 125. ISSN 1512-0996 DOI:https://doi.org/10.36073/ 1512-0996	12	Kh. Chokheli, T. Arshba
90	Hydropower installations (second edition)	print ed	Publishing house "Technical University", Tbilisi, 2020 121 p. ISBN 978-9941-28-556-1	121	I. Lomidze, P. Samsonashvili
91	DAM SAFETY AND RELATED ENVIRONMENTAL ISSUES (in Russian)	print ed	Proceedings of the XXV International Scientific and Practical Conference International Trends in Science and Technology January 30, 2021, Warsaw, Poland. P. 11-14. DOI: https://doi.org/10.31435/rsglo bal_conf/30012021/7382	4	I. Noniev, L. Shatakishvili, A. Mirtskhulava
92	MULTIFACTORIAL FORECAST OF RIVER RUNOFF FOR RESERVOIR UNDER LIMITED INFORMATION CONDITIONS (in English)	print ed	5тн INTERNATIONAL CONFERENCE ON INNOVATIVE STUDIES OF CONTEMPORARY SCIENCES. January 14- 15,2022/ Tokyo-Japan. TOKYO SUMMIT-V. Proceedings Book, P. 329- 334. ISBN: 978-625-8423-91- 4. https://www.tokyosummit.or g/conference-book	5	Kh. Chokheli

93	To the Assessment of the Safety Risks of Dams in Georgia (in English)	print ed	Research, Study, Examination (Volume 3) // Collective monograph. Saarbrücken, Saarland, Germany; 2022, p.74-79. ISBN-10 : 6200472963 ISBN-13 : 978-6200472960.	6	I. Noniev, L. Shatakishvili, A. Mirtskhulava
94	Selection of working modes of the upper level reservoir, taking into account the effective functioning of the lower Bief HPPs, on the example of Rion HPPs.	print ed	Proceedings of the Technical University of Georgia No. 2(524), Tbilisi, 2022, pp. 96- 104. SCOPUS CODE 2105 <u>https://doi.org/10.36073/1512</u> <u>-0996-2022-2-96-104</u> ISSN 1512-0996	10	Kh. Chokheli
95	Determining of the river run-off and developing of the control methodology using the example of existing energy purpose water reservoirs (in English)	print ed	International Journal of Novel Research and Development (IJNRD)., ISSN: 2456-4184; Volume 7 Issue 4 April-2022, p. 808-817. DOI: 10.6084/m9.doione.IJNRD22 04098	10	Kh. Chokheli
96	Possibilities of implementing hydro- accumulating power plants in Georgia	print ed	"Energy" engineering and technical magazine. No. 3- 4(103-104). 2022. Tbilisi. p. 12-19. ISSN 1512-0120	8	B. Pipia, N. Kvirkvelia
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