

List of scientific works

**Anzor Abshilava**

No	Title of scientific works	printed Handwriting	Publishing house, magazine (issue, year) or copyright certificate number	Print quantity or number of pages	Last name of the co-author
1	2	3	4	5	6
1.	Development of schemes for the enrichment of liptobiolitic coals of the Tkibuli deposit in order to separate the rhabdopisite concentrate	Nab.	Scientific report Sab. Registration No. 76035452 , Tbilisi 1976	48	R. Sturua etc
2.	Introduction of a new reagent regime in order to obtain a carbonate floc concentrate with a lower clay content than Chiaturi CFF	Nab.	Scientific report no. Reg. No. 76035453, Tbilisi 1976	70	Z. Arabidze and others
3.	Prospects for the use of corrosion inhibitors to reduce the cost of grinding balls	Nab.	Scientific report no. Reg. No. 104308, Tbilisi 1976	63	d. Talakhadze and others
4.	Study of enrichment of Tkibuli liptobiolitic coals	Nab.	Transcaucasian Republic, Higher Education XIX scientific technology Conference materials publisher. SPI Tbilisi 1977	1.5	Z. Arab uncle
5.	Separation of tar fraction from liptobiolitic coals by thermal method	Nab.	thesis of SPI reports 1978	1	Z. Arab uncle
6.	Development of rational schemes for beneficiation of	Nab.	thesis of SPI reports 1978	2	T. Mkheidze Z. Arabidze

	liptobiolitic coals of Tkibul-Shaori deposit				
7.	Reducing the cost of balls in the grinding process by slowing down the oxidation of their surface	Nab.	thesis of SPI reports 1978 No. 6 (207)	4	R. Shafeev R. Sturua d. Talakhadze
8.	Use of corrosion inhibitors in ore preparation operations to reduce steel consumption	Nab.	science Account No. Registration No. 78044895, Tbilisi, 1978.	75	R. Sturua and others
9.	Development and implementation of foam extinguishing technology at CPF in order to reduce losses in the discharge of the compressor	Nab.	science Account No. Registration number 7 9039704 , Tbilisi 1979	30	R. Sturua and others
10.	Improving the technology of beneficiation of manganese ores, regeneration of fatty acid reagents and wastewater treatment	Nab.	science Account No. Registration number 7 9041963 , Tbilisi 1979	177	R. sturua d. Talakhadze; Z. Arab uncle etc
11.	MIIP- 27-36 brand mill operation and introduction of manganese tails rod grinding scheme at Chiaturi CPP	Nab.	science Account No. Registration No. 014212, Tbilisi 19 80	28	R. sturua d. Talakhadze and others
12.	Research on the beneficiation of Chiaturi manganese ores in order to obtain conditioned carbonate concentrates with a low content of oxidized manganese minerals	Nab.	three. Account No. Registration No. 01811014218 , Tbilisi, 1980	45	R. Sturua, D. Talakhadze and others
13.	Mineralogical study of partially oxidized ores of Chiaturi deposit and development of beneficiation technology	Nab.	three. Account No. Registration No. 01830047561, Tbilisi, 1981.	61	R. Sturua, D. Talakhadze and others

14.	Implementation of the technology of flotation enrichment of manganese fine sludges of CPF using flotation reagent - monoethanolamide	Nab.	three. Account No. Registration No. 01824010, Tbilisi, 1981.	78	R. Sturua and others
15.	Research on the flotation process of manganese sludges	Nab.	Works of SPI, Tbilisi, 1983. No. 2(259)	3	Z. Arab uncle d. Talakhadze
16.	Intensification of emulsification of poorly soluble reagents in water using the electrohydraulic effect	Nab.	"Manganets" magazine, Tbilisi, 1983. No. 1 (85)	4	R. sturua i. Ramishvili
17.	of conditioning water, pulp and solutions prior to mineral flotation		copyright certificate No. 1054972, Tbilisi 1983		R. Sturua, R. Shafeev, D. Talakhadze, V. It's crazy
18.	Method of pulp conditioning before foam separation and device for its rehabilitation		copyright certificate No. 1391713, Tbilisi 1986		V. Joffe R. Sturua and others
19.	Effect of flotation pulp conditioning intensity on the foaming process of manganese sludges	Nab.	"Manganets" magazine, Tbilisi, 1986. No. 4 (106)	p. 17-21	S. Polonsky; V. Katyshev
20.	Increasing the conditioning efficiency of large-grained manganese slurries based on the use of a radial perforation disk stirrer	Nab.	"Manganets" magazine, Tbilisi, 1986. No. 5 (107)	p. 22-25	S. Polonsky; V. Katyshev
21.	Study of regularities of secondary concentration and conditioning of mineral particles in pneumatic flotation machines	Nab.	Materials of the scientific-practical seminar "Column flotation machines", Irkutsk, 1986. p. 12-21	9	S. Leonov R. Sturua and others

22.	Intensification of the conditioning process of coarse pulp before froth separation	Nab.	Theses of the scientific-technical conference Sverdlovsky, 1986, p. 35-36	2	S. Polonsky; V. Katyshev
23.	conditioning process of coarse-grained flotation pulp using energy impact	Handwriting	Dissertation, for obtaining the degree of Candidate of Technical Sciences, St. Orjonikidze, 1986		
24.	Coarse flotation pulp conditioning equipment	Nab.	Proceedings of SPI, No. 9 (321), Tbilisi, 1987.	2	c. Nikoladze; Z. Arab uncle
25.	Development and implementation of barite-polymetallic ore enrichment technology	Nab.	three. Account No. Registration No. 01870049216, Tbilisi, 1987.	55	R. Sturua and others
26.	Development and implementation of a complex technology for beneficiation of zeolites and ores of Georgia	Nab.	three. Account No. Registration No. 01850054430 Tbilisi 1987	81	R. Sturua and others
27.	Development and implementation of perfect technology of barite-gold-bearing ores of Madneuli ore deposit	Nab.	three. Account No. Registration No. 01881009227 Tbilisi 1987	95	d. Talakhadze and others
28.	Pulp conditioning machine		Copyright certificate No. 1789277, Tbilisi, 1988.		R. Sturua and others
29.	Training program in the course of special and combined methods of beneficiation for students of the specialty "beneficiation of useful minerals"	Nab.	Polytechnic Institute Publishing House, Irkutsk, 1988	8	d. Talakhadze

30.	Concentration table for floatogravity		Copyright certificate No. 1671351, Tbilisi, 1989.		R. Sturua and others
31.	Column flotation machine		Copyright certificate No. 1468598, Tbilisi, 1989.		R. sturua A. Gigineishvili
32.	electroflotation device		Copyright certificate No. 1756280, Tbilisi, 1989.		R. Sturua and others
33.	Intensification of the process of electroosmotic filtration of manganese sludges with combined electric impact	Nab.	The works of SPI: "The contribution of higher education scientists to the acceleration of scientific and technical progress" Tbilisi, 1989.		R. sturua A. Gigineishvili
34.	Research on the roasting process of manganese carbonate concentrates	Nab.	"Manganets" magazine, No. 3, Tbilisi, 1990.	3	R. Sturua J. Sherazadishvili and others..
35.	Research on the calcination process of carbonate manganese concentrates	Nab.	Manganets magazine No. 3 (129), Tbilisi, 1990.	3	R. Sturua J. Sherazadishvili
36.	Technology of beneficiation of finely divided copper-pyrroitic ores	Nab.	1990 in the magazine "Cvetnaya metallurgy".	3	R. Sturua; i. It is a box
37.	Electroosmotic dehydration methods		Copyright certificate No. 1570742, Tbilisi, 1990.		R. sturua R. Shafeev and others
38.	Pulp aeration methods in electroflotation machines		Copyright certificate No. 1727917, Tbilisi, 1991.		R. Sturua; and others

39.	Research and improvement of pulp aeration methods in electroflotation machines		Theses of the Scientific-Technical Conference, Batumi, 1991.	1	A. Gigineishvili, J. Sherazadishvili
40.	Zhairem barite ore study on beneficiation for gravity concentrate		Theses of the Scientific-Technical Conference, Batumi, 1991.		R. Sturua, D. Talakhadze and others
41.	Technology processing of barite-polymetallic ores of Madneuli deposit	Nab.	Report theses of STC of Stu, Tbilisi, 1993.	1	Z. Arabidze, I. It is a box
42.	for the enrichment of gold-bearing quartzites of the Madneuli deposit	Nab.	Theses of the Scientific-Technical Conference, Tbilisi, 1996.	1	R. sturua d. Talakhadze; Z. Arab uncle
43.	Completion of the water-sludge scheme of the Madneuli copper ore beneficiation plant	Nab.	Theses of the Scientific-Technical Conference, Tbilisi, 1997.	1	d. Talakhadze; Z. Arab uncle
44.	Optimal technological scheme of coal processing of Tkibul-Shaori deposit	Nab.	"Mining Magazine" No. 1, Tbilisi, 1998.	4	R. Sturua and others
45.	Improving the technology of beneficiation of the hard-to-be-enriched ore of copper ore	Nab .	"Mining Journal" #1 Tbilisi 1998	3	R. Sturua D. Tevzadze etc
46.	Processing of barite-polymetallic ore enrichment technology to obtain lead, zinc and copper concentrates	Nab .	face Report of the community, Tbilisi 2000	43	R. sturua d. Talakhadze and others
47.	Technology of extracting hard fine-grained coal from the reservoir of Tkibulhesi	Nab.	Proceedings of Stu No. 6 (439), Tbilisi, 2003.	3	R. sturua, d. Talakhadze, Z. Arab uncle
48.	Technology of beneficiation of gold-bearing quartzites of Madneuli deposit	Nab.	Proceedings of Stu No. 6 (439), Tbilisi, 2003.	3	R. sturua, d. Talakhadze,

					V. Sulamanidze
49.	A device for measuring pulp density and the amount of minerals with magnetic properties		Patent R 3762. , Tbilisi 2004		R. Sturua and others
50.	A method of obtaining a concentrate of noble metals from the waste obtained as a result of the enrichment of polymetallic ores	Nab.	patent U 1431, 2007		Z. Arabidze, Z. Gordeziani, D. Talakhadze, J. Kaflanishvili, K. It is a fruit
51.	A method of separation of noble metals from the grinding-classification cycle of polymetallic ores	Nab.	patent U 1 430, 2007		Z. Arabidze, Z. Gordeziani, D. Talakhadze, J. Kaflanishvili, K. It is a fruit
52.	Sulfidation of oxidized minerals by electrochemically treated sodium sulphide solution	Nab .	Sat. me too. Academy Ref. magazine "Science and Technology" No. 10-12, Tbilisi, 2007	6	D. Talakhadze D. Tevzadze A. Gigineishvili N. Dolidze
53.	Selection issues of copper-zinc minerals	Nab.	Oil and Gas of Georgia, Tbilisi No. 22, 2008.	4.0	d. Talakhadze, Z. Arabidze, K. Kekelidze
54.	Screw separator	Nab.	patent GE U15 62 Y 200 9 year		M. Gamtsemlidze, T. Mechurchlishvili, Z. Arabidze, G. in a hurry
55.	Method of beneficiation of copper ores containing mixed and oxidized gold	Nab.	patent GE U1535Y 200 9 year		d. Talakhadze, Z. Gordezian, D. Talakhadze, J. Kaflanishvili, K. It is a fruit

56.	Flotation machine	Nab.	Copyright certificate, No. 1417932, Tbilisi, 1988.		R. Sturua; A. Gigineishvili
57.	Prospects for the processing and use of fine-grained coals and sludges of the Tkibul- Shaori deposit	Nab.	Mining magazine Tbilisi, No. 1(22) 2009, p. 34-37	4.0	R. Sturua, D. Talakhadze etc
58.	Additional extraction of gold from the tailings of the ore beneficiation plant	Nab.	"Georgian Oil and Gas" magazine Tbilisi, No. 24. Tbilisi, 2009. p. 110-115	5.0	R. Sturua etc
59.	Method of beneficiation of secondary sulphide and colchedan ores of copper	Nab.	Patent U 1624 Y 20 10 years Tbilisi		K. Kekelidze, Z. Gordeziani and others
60.	Method of removing noble metals from polymetallic ore grinding-classification cycle	Nab.	Patent GE U 1622 Y , Tbilisi 2010		K. Kekelidze, Z. Gordeziani and others
61.	Processing and investigation of the technology of smelting manganese ferroalloys from the wastes of beneficiation of Chiaturi manganese ores	Handwriting	Review, G. Mazmishvili's doctoral dissertation, Tbilisi, 2010.	6	
62.	Study of material composition of copper-zinc ores of Madneuli deposit	Nab.	Mining magazine No. 2 (26), Tbilisi, 2011.	4	Z. Arabidze, K. Kekelidze
63.	Determination of grinding thickness of copper-zinc ores of Madneuli deposit	Nab.	Mining magazine Tbilisi, No. 1(26) 2011	3.0	Z. Arabidze and others
64.	The influence of the interaction of coarse and fine mineral particles on the	Nab.	Mining magazine Tbilisi, No. 2(27) 2011	4.0	R. Sturua etc



	flotation process of copper sulfide ores				
65.	Joint Stock Company "Madneuli" methods of improving the technological indicators of beneficiation of mixed and oxidized copper-pyrite ores	Nab.	Mining magazine Tbilisi, No. 1(30) 2013	4.0	b. Menabdishvili N. Ghugunishvili
66.	Prospects for the use of fine-grained slurries of coals from the Tkibul-Shaori deposit	Nab.	"Georgian Oil and Gas" Tbilisi , No. 28 of 2013	4.0	Z. Arabidze and others
67.	Issues of collective concentrate selection of stacked tailings of Madneuli copper ores		Mining magazine Tbilisi, No. 2(33) 2014		A. Abshilava R. Sturua, D. Talakhadze, Z. Arabidze and others .
68.	Study of the hydrodynamic regime of operational wells within the Mukhran artesian basin in order to estimate the operational reserves		Hydrogeological report, Tbilisi 2014.	30.0	M. Mardasova Kh. in debt A. Kemoklidze
69.	Problems of Albion method leaching of gold-bearing medege sulphide ores		Mining magazine Tbilisi, No. 1 (3 4 ) , 2015 .		A. Abshilava d. Talakhadze; d. Tevzadze and others .
70.	Technical safety requirements for transport and electrotechnical installations of mineral and non-mineral mineral enrichment, sorting and agglomeration factories	Nab.	Mining magazine, Tbilisi, No. 2 (3 4 ) , 2015 .	5.0	A. Abshilava d. Talakhadze; A. Bezhanishvili.
71.	Optimum combined technology of processing of copper tailings, resistant ores of the Madneul deposit. Tez.	Nab.	Work Technical conference "Innovation development of mining industry	2.0	A.V. Abshilava; P.И. Sturua, D.G. Talahadze

	дакладов international science		Krivoy Rog, ukpaina 2016". str. 202.		
72.	General safety requirements for technological processes and equipment in mineral processing plants	Nab.	mining magazine, Tbilisi, N 1( 38 ), 2017 __	5.0	d. Talakhadze and others
73.	Some issues of enrichment and dewatering of fine-grained slurries of Tkibul-Shaori coal deposits	Nab.	Engineering News of Georgia, No. 1 , 2017	3	N. Dolidze
74.	Optimized Combined Processing Technology For The Accumulated Refractory Copper Ore Tailings At Madneuli Deposit	Nab.	St. Moscow, mineral processes International Congress. XXIX MOSCOW, RUSSIA IMPC 2018 SEMTEMBER 15-21, 2018	5	R. Sturua , D. Talakhadze
75.	Safety requirements for flotation plant reagent farming	Nab.	mining magazine, Tbilisi, N 1( 42 ), 2019 __	4	A. Bezhanishvili, D. Talakhadze, Z. Arab uncle
76.	Intensification of the process of dewatering the fine-grained fraction of coal in the conditions of the Tkibuli deposit	Nab.	Proceedings of Stu, No. 2 (524 ) , 2022	8	d. Talakhadze; N. Dolidze
77.	Current tailings of Madneuli copper ore beneficiation factories Issues of combined technology processing	Nab.	Proceedings of Stu, No. 2 (528 ) , 2023	12	d. Talakhadze; N. It's a geek

<b>Syllabus</b>					
<b>Bachelor's degree</b>					
78.	Basics of mineral beneficiation		2020	5.0	
79.	Preparatory processes for mineral enrichment		2020	5.0	
80.	Обогащение полезных ископаемых		2012	5.0	
81.					
<b>master's degree</b>					
82.	Technological design of coal enrichment factories		2020	5.0	
<b>Ph.D</b>					
83.	mineral processes		2020	5.0	
<b>professional education</b>					
84.	Fundamentals of beneficiation of solid minerals		2012	5.0	

<b>Methodological guidelines</b>					
85.	of the American Society for the Development of Methods of Measurement ( ASTM ) (third part)	Nab.	Batumi RSU publishing house. 2013	54	d. Chkhaidze, M. Loria
<b>textbooks</b>					
86.	Basics of mineral beneficiation	Nab.	Stu publishing house Tbilisi, 20 11	162	
87.	Preparatory processes for mineral enrichment	Nab.	"Technical University" Tbilisi 2013	160	Z. Arab uncle
88.	Fundamentals of safety techniques in oil and gas production and exploitation ( Part I )	Nab.	"Technical University" Tbilisi 2013	617	N. Bochorishvili, L. Makharadze, N. Khundadze
89.	Fundamentals of safety techniques in oil and gas production and exploitation ( Part II )	Nab.	"Technical University" Tbilisi 2013	660	N. Bochorishvili, L. Makharadze, N. Khundadze

90.	Technology of beneficiation of solid minerals	Electronic manual.	Order of the National Center for Education Quality Development of Georgia. <a href="http://www.eqe.ge">www.eqe.ge</a> 2016	124 p.	Z. Arabic uncle N. Dolidze.
91.	mineral enrichment Gravitational of technology research,	e-mail Handbook , CD-4882	"Technical University", 2018	82	Z. Arab uncle
92.	ore mineral enrichment technologies	e-mail Handbook, CD-4883	"Technical University", 2018	107	d. Talakhadze, N. Dolidze
93.	ore mineral enriching factories technological design	e-mail Handbook, CD-4884	"Technical University" 2018	145	d. Talakhadze, R. Sturua
94.	Carbohydrate factories technological design	Nab.	Technical University, Tbilisi 2018	104	Z. Arab uncle

Anzor Abshilava