

Malkhaz Khutsishvili  
The list of scientific, teaching and learning works since 2012  
Original

#	List of scientific works	Printed or handwritten	Journal, book (textbook), publishing house, year or author's certificate number	Number of printed sheets or list	Co-authors
1	2	3	4	5	6
1	Corrosion resistance of welded connections of 12X3CMΦIOT (DI-46) and 12X4CMΦIOT (DI-47) steels in aggressive environments of oil and gas industry	Printed	GIN. – 2012. - №1. – pp. 70-75	6	G. Dadianidze A. Sulamanidze
2	Addition of extra lateral electrodes to engine ignition burner	„____„	Georgian Engineering News – 2012.- №4. - გვ. 66-69	4	Sulamanidze A.K. Sabashvili Z.V. Chanadiri L.J. Metreveli A.B. Vatitadze G.Z. Bakuradze L.
3	Changes in chemical composition during high-enthalpy laminar plasma spraying of materials	„____„	Georgian Engineering News – 2013.- №1. - გვ. 113-115	3	Kikvadze L.V. Khutsishvili G.M. Shengelia L.B.
4	Some technological characteristics of new coated electrode for manual arc welding	„____„	Georgian Engineering News – 2014.- №4. - გვ. 39-43.	4	Sulamanidze A.K. Dadianidze G.A. Nikolava O.I.
5	Analysis of macrostructures and mechanical properties of weld seams obtained using new coated electrode	„____„	Georgian Engineering News – 2015.- №1. - გვ. 99-103	4	Sulamanidze A.K. Kotiashevili L.T. Dadianidze G.A. Nikolava O.I.
6	Improvement of plasma spraying effectiveness	„____„	Innovative Technologies in Metallurgy and Materials Science International Conference- 2015. V. 111-113.	2	L. Shengelia
7	Improvement of plasma spraying effectiveness	„____„	Georgian Technical University, Transactions, 2015. №4, pp. 93-98.	6	L. Shengelia
8	Technology development for automatic welding of 12X3CMΦIOT and 12X4CMΦIOT grade (type) steels intended for use in oil and gas industry	„____„	Georgian Engineering News, 2016. - №4. – pp. 100 -104	5	Dadianidze G.A. Saralidze B.P. Khmaladze M.G.
9	Mathematical analysis of steam-gas channel rear wall oscillations during laser welding	„____„	Bulletin of the National Academy of Sciences of Georgia. Chemical series – 2017. – v. 43. - № 1, pp. 118-132.	14	-

Competitor

M. Khutsishvili

The list of M. Khutsishvili's works is approved by:

Z. Sabashvili

10	Frequency analysis of steam-gas channel rear wall oscillations during laser welding	„____„	Bulletin of the National Academy of Sciences of Georgia. Chemical series – 2017. – v. 43. - № 2, pp. 277-284	8	-
11	Welding ability of high-alloyed corrosion resistant steels intended for chemical industry using arc methods	„____„	Georgian Technical University. Conference “Chemistry – Achievements and Prospects” dedicated to the 85 <sup>th</sup> anniversary of Academician Givi Tsintsadze, Proceedings (Collection of scientific works), Tbilisi, pp. 258-262.	5	M. Khmaladze G. Dadianidze B. Saralidze
12	Treatment of new wear-resistant weld materials	„____„	Scientific-technical conference “Environment Protection and Sustainable Development” dedicated to the 80 <sup>th</sup> anniversary of doctor of chemical sciences, Professor Viktor Eristavi, Collection of abstracts, Tbilisi, 2019, pp. 46-48.	3	Mirijanashvili Z. Dadianidze G. Saralidze B.
13	Fundamentals of laser material processing (Translation)	„____„	Tbilisi “Publishing house Technical University”, 2019	467	-
14	Processing of new wear-resistant weld materials	„____„	Georgian Technical University International scientific-technical conference “Environment Protection and Sustainable Development”. Proceedings, Tbilisi, 2020, pp. 31-36.	6	Mirijanashvili Z. Dadianidze G. Saralidze B.
15	Manufacture of powder-core wires and wear-resistant weld deposit using electric arc method	„____„	Georgian Engineering News, №1 Tbilisi, 2020. pp. 77-80.	4	G. Dadianidze J. Sharashenidze K. Papava B. Saralidze
16	Technological characteristics of new wear-resistant weld coated electrodes	„____„	Georgian Engineering News, №1 Tbilisi, 2021. pp. 121-124	4	Dadianidze G.A. Saralidze B.R. Abdushelishvili I.T.
17	Local resources use in electrode coating for welding and build-up of grey and malleable cast iron	„____„	Georgian Engineering News, №12 Tbilisi, 2022.		Dadianidze G.A., Gonjilashvili N.D.
18	Modern methods and perspectives of applying wear-resistant coatings by arc methods	„____„	A collection of theses of the International Scientific Conference "Chemistry - Achievements and Perspectives" dedicated to the 90th anniversary of the birth of Academician Givi Tsintsadze. Tbilisi 2023. p. 201-203	3	G.Dadianidze, Z. Mirijanashvili, b. Saralidze

19	Obtaining powders containing alumina reinforced with aluminum oxide	„ „	A collection of theses of the International Scientific Conference "Chemistry - Achievements and Perspectives" dedicated to the 90th anniversary of the birth of Academician Givi Tsintsadze. Tbilisi 2023. p. 201-203	2	Z. Mirijanashvili, K. Ukleba, G. Dadianidze
20	Modern methods and perspectives of applying wear-resistant coatings by arc methods	„ „	Collection of Scientific Works of the international scientific Conference dedicated to the 90th anniversary of the birth of Academician Givi Tsintsadze. Tbilisi 2023. p. 564 - 575	12	G.Dadianidze, Z. Mirijanashvili, b. Saralidze
21	Obtaining aluminum oxide reinforced powder-containing composite materials	„—„	Collection of Scientific Works of the international scientific Conference dedicated to the 90th anniversary of the birth of Academician Givi Tsintsadze. Tbilisi 2023. p. 619 - 626	8	Z. Mirijanashvili, K. Ukleba, G. Dadianidze
22	Educational program modification	„—„	In 2017 -2021: supervision and modification of educational program of Master's degree programme in materials sciences for 2021 accreditation		
23	Drawing up and modification of syllabuses for the education program in material sciences	„—„	Syllabuses drawn up and modified according to new requirements in the following disciplines: 1. Weld materials and welded constructions; 2. Technology and equipment for fusion welding; 3. Soldering technology and equipment; 4. Welding diagnostics; 5. Welded connections strength and construction deformations; 6. Fundamentals of laser material processing; 7. Gas-thermal coatings; 8. Main pipeline welding; 9. Manufacturing practice in material sciences; 10. Laser welding		

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