

## List of scientific works

**Abramishvili Giorgi S.**

*Surname, first name, father's name*

No. in line	Title of scientific works	printed or handwritten	Publishing house, magazine (number, year) or copyright certificate (number, year)	Number of printed plates or pages	Last name of the co- author
<b>Scientific works published in journals</b>					
1	Improvement of the efficiency of spherical joint friction units of the steering mechanism	Printed	Transport bridge EUROPE-ASIA, GTU, 2014,	4 p.	Iosebidze J., Kupatadze D., Khvedelidze M.
2	Development of a logistics model for determining the thermophysical parameters of an installation for the production of automotive suspension oils using nanotechnology (In Russian)	Printed	«Transport», №1-4, 2014,	5 p.	Iosebidze D.S., Kupatadze D.O.,
3	New phenomenon in the area of tribology: the basis of elaboration of brand new motor car lubricating materials	Printed	Collection of works dedicated to the 75th anniversary of J. Iosebidze and A.Chkheidze - Inovative metods for improvement of technical efficiency of motor cars. "Nova", New york, 2015.	12 p.	J. S. Iosebidze, E.R. Kutelia, A.P. Chkheidze, T.M. Apakidze.
4	Improvement of durability of motor car tribo-assemblies by means of vibrostimulation of tribosynthesis of graphite-diamond Surface structures	Printed	Same	7 p.	J. S. Iosebidze, A.P. Chkheidze, E.R. Kutelia, T.M. Apakidze, M.G. Saladze.
5	Use of the phenomenon of cavitation for reducing the wear	Printed	Same	8 p.	J. S. Iosebidze, E. R. Kutelia, S. Bakhtiyarov, A.P. Chkheidze
6	Improvement of motor cars durability with the use of transmission oil on the basis of amorphous Nano-dispersed carbon	Printed	Same	8 p.	J. S. Iosebidze, A.P. Chkheidze, E.R. Kutelia, T.M. Apakidze.
7	Development of a new method of running-in of motor cars tribounits	Printed	Same	8 p.	J. S. Iosebidze, E. R. Kutelia, A.P. Chkheidze, T. M. Apakidze.
8	Increase in replacement age of motor car transmission oils by means of elaboration of new method of their determination	Printed	Same	8 p.	J. S. Iosebidze, O.G. Gelashvili, D.I. Aladashvili, V.A. Tsverava, T.M. Apakidze

Author, Professor G. Abramishvili

Head of the Department of Road Transport  
and Logistics, Professor J. Iosebidze

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9	Study of opportunity of improvement of operational properties of motor car transmission oils by means of addition of new type amorphous nano-dispersed carbon to them	Printed	Same	6 p.	J. S. Iosebidze, A.P. Chkheidze, E.R. Kutelia, N.V. Navadze, M.T. Khvedelidze.
10	Improvement of tribological properties of motor plastic lubricants with the use of nanodispersed amorphous carbon As their fillers.	Printed	Same	8 p.	J. S. Iosebidze, M.MT. Khvedelidze E.R. Kutelia, A.P. Chkheidze, Kh. A. Mgebrishvili.
11	Improvement of the efficiency of spherical joint friction units Of the steering mechanism	Printed	Same	6 p.	J. S. Iosebidze, M.M. Khvedelidze, L.A. Zurabishvili, T.M. Apakidze, N.N. Diasamidze
12	Improvement of durability and economical efficiency of tractors with the use of transmission oil on the basis of amorphous Nano-dispersed carbon	Printed	Same	6 p.	J. S. Iosebidze, A.P. Chkheidze, A.A. Zurabishvili, D.N. Pridonashvili.
13	Elaboration of the model for thermal calculation of evaporator-homogenizer for production of oil containing amorphous nanodispersed carbon	Printed	Same	10 p.	ჯ. იოსებიძე, თ. კილურაძე, გ. ხუციშვილი, გ.ჩიტაშვილი, ლ.ზურაბიშვილი.
14	Increasing the environmental friendliness of cars through the use of a new method of increasing engine oil change intervals - "pre-treatment of friction units"	Printed	Scientific and technical journal "Transport and mechanical engineering". Tbilisi, No. 1(38),2017	9 p.	J. Iosebidze, M. Khvedelidze, L. Kakashvili, N. Diasamidze, D. Aladashvili
15	Study of carbon materials and materials of rubbing bodies required for tribosynthesis of diamond nanocrystals	Printed	"Engineering News of Georgia" magazine, Tbilisi, No. 1, 2021	7 p.	O. Gelashvili, D. Iosebidze, B. Eristavi, N. Diasamidze, M. Khvedelidze

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16	Study of rheological and tribotechnical properties required for tribosynthesis of diamond nanocrystals, model oils containing amorphous nanodispersed carbon	Printed	"Engineering News of Georgia" magazine, Tbilisi, No. 1, 2021	7 p.	D. Iosebidze, D. Pridonashvili, N. Diasamidze, M. Khvedelidze, T. Saladze
17	A generalized conceptual model of the local and global impact of road transport on the environment	Printed	Scientific and technical journal "Transport and mechanical engineering". Tbilisi, No. 2(51), 2021	7 p.	J. Iosebidze, Kh. Mghebrishvili, d. Dzotsenidze, L. Mamaladze
18	Investigation of Structural and Phase Transformations of Steel Surfaces During Sliding Friction in the Environment of Oils Modified with Carbon Nanoform Particles	Printed	BULLETIN OF THE GEORGIAN NATIONAL ACADEMY OF SCIENCES, vol. 16, no.2, 2022	7 p	G.Abramishvili, E. Kutelia, D. Iosebidze, B. Eristavi, O. Gelashvili
19	Effect of Running-in on the Wear Pattern of Heavy Loaded Friction Surfaces of Steel in the Environment of Nanolubricants	Printed	BULLETIN OF THE GEORGIAN NATIONAL ACADEMY OF SCIENCES, vol. 17, no.2, 2023	8 ოპ.	G.Abramishvili, E. Kutelia, <i>T. Natriashvili</i> , D. Iosebidze, O. Gelashvili
<b>Methodical works and manuals</b>					
1	Fuel and lubricants for marine transport	Printed	Georgian Technical University, 2017	131 p.	T. Gelashvili, J. Iosebidze, G. Archvadze
2	Analysis of environmental friendliness of vehicles (course of lectures)	Printed	Georgian Technical University, 2020	245 p.	J. Iosebidze, O. Gelashvili, Kh. Mghebrishvili, N. Diasamidze
3	Operational materials (course of lectures)	Printed	Georgian Technical University, 2020	233 p.	J. Iosebidze, T. Apakidze, N. Diasamidze, M. Khvedelidze
<b>Monographs</b>					
1	A car and a traffic accident as an object of technical and legal research	Printed	"Universal", Tbilisi, 2017	140 p.	V. Kharitonashvili, N. Chichinadze

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<b>Conferences</b>					
1	Elaboration of the model for thermal calculation of evaporator-homogenizer for production of oil containing amorphous nanodispersed carbon	Printed	Balttrib 2013, VII International scientific conference, 2013, Kaunas	7 p.	Iosebidze J, Kiguradze O., Khutsishvili G., Kupatadze D.
2	EFFECT OF FRICTION ASSEMBLYES RUNNING-IN ON INCREASE IN REPLACEMENT AGE OF AUTOMOBILE TRANSMISSION OILS	Printed	Balttrib 2017, VIII International scientific conference, 2017, Kaunas	5 p.	J. Iosebidze, L. Kakashvili, N. Diasamidze, M. Khvedelidze
3	Development of a geometric model of nanotechnology for the production of high-performance automotive suspension oil	Printed	IV Georgian-Polish scientific and technical conference "Transport Bridge Europe-Asia", 2019	6 p.	J. Iosebidze, D. Fridonashvili, N. Diasamidze, M. Khvedelidze, Kh. Mgebrishvili
4	Study of tribotechnical and ecological efficiency of motor car transmission oil "Kolkheti-2" prepared with nanotechnology	Printed	IX International conference BALTRIB-2019, Kaunas, 14-16 November 2019.	4 p.	J. Iosebidze, L. Kakashvili, E. Machavariani, N. Diasamidze, M. Khvedelidze, D. Aladashvili.
5	The effect of the formation of diamond-like carbon particles on the friction surfaces of steel during sliding in the area of oils modified with nanoparticles of CNFs	Printed	31st International Conference on Diamond and Carbon Materials. 6-9 September 2021. /ONLINE: Live and on-demand	0,5	E. Kutelia, D. Iosebidze, B. Eristavi, O. Gelashvili
6	Tribotekhnical and Ecological Efficiency of Motor Car Transmission Oil	Printed	19th international scientific and practical seminar: "Modern problems of production and repair in industry and transport." Tbilisi, October 2021	5 p.	J. Iosebidze, D. Fridonashvili, N. Diasamidze, M. Khvedelidze, Kh. Mgebrishvili
7	Methodology for calculating fuel consumption and heat release into the environment as environmental indicators of a vehicle	Printed	VI Georgian-Polish scientific and technical conference "Transport Bridge Europe-Asia". Tbilisi, October 2021	7 p.	J. Iosebidze, O. Gelashvili, D. Fridonashvili, N. Diasamidze

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