

List of scientific works of Raul Turmanidze

1.	Highly Efficient Rotor Designs of Wind Farms and Their Role in Optimizing the Energy Balance in the World's Leading Countries.	print	Abstracts of the reports of the X International Scientific and Technical Conference "Advanced Technologies of the Life Cycle of Aircraft Engines and Power Plants". Ukraine, Zaporozhye National. Technical. university. September 23-28, 2013, Alushta. 187 p. ISBN 978-966-2906-37-0, UDC 621,438 (06).	12-13.	
2.	Study of machinability and performance characteristics of modified pure titanium as a promising material for human hip endoprosthesis.	print	Proceedings of the XXI International Scientific and Technical Conference "Mechanical Engineering and Technosphere of the XXI Century". Sevastopol, September 16-21, 2013, Volume 3. ISSN 2079-2670, BBK K5ya54, UDC 621.01(06),	80-83	Butskhrikidze D.S., Beridze M.D., Sheikin S.E.
3.	Rotors with variable parameters in dynamics for aircraft and power installations.	Print	5th European Conference for Aeronautics and Space Sciences - EUCASS 2013, 1-5 July 2013, Munich, Germany. 560 p. Electronic version.	6 p.	A. Peikrishvili
4.	Highly Effective Wind Power Stations and Their Role in Optimization of the Energy Balance in the Leading Countries of the World.	Print	The International Congress on Engineering and Technology ICET 2013. 25th – 27th June 2013, Dubrovnik, Croatia	9 p.	
5.	Optimization Methods of the Energy Balance in the Leading Countries on the Basis of Use of the Highly Effective Wind Power Stations.	print	International conference "Scientific and Technological Innovations: National Experience and International Collaboration". 27 – 30 May 2013, Moscow. Electronic version.	9 p.	

List of scientific works of Raul Turmanidze

6.	მოდულიზებული სუფთა ტიტანი – პერსპექტიული მასალა მენჯ-ბარძაყის სახსრის ენდოპროთეზისათვის.	ნაბ.	სტუ-ს შრომების კრებული #3 (482), 2013 წ.	8	დ. ბუცხრიკიძე, მ. ბერიძე, ს. შეიკინი, ი. პოგრელიუკი
7.	კბილდამამუშავებელი იარაღის გაანგარიშება და კონსტრუირება.	ნაბ.	სახელმძღვანელო, საქართველოს ტექნიკური უნივერსიტეტი, თბილისი 2014 წ. ISBN 978-9941-20-488-3	42 გვ.	ვ. შილაკაძე
8.	Подбор материалов для имплантов тазобедренного сустава человека и технология их обработки с достижением высокой точности и качества сферических поверхностей.	Печ.	Сборник трудов VIII Международной научно-методической конференции «Современные проблемы техносферы и подготовки инженерных кадров». Хаммамет, Тунис, 28 сентября - 5 октября 2014 г. ISSN 2079-2530, ББК К5я54, УДК 621.01(06)	156-164	
9.	Разработка методики подбора материалов для имплантов тазобедренного сустава человека и технология их обработки с достижением высокой точности и качества сферических поверхностей.	Печ.	Тезисы докладов научно-технической конференции «Новые и нетрадиционные технологии в ресурсо – и энергосбережении», Одесса 22-24 сентября 2014 г.	161-163	
10.	Конструкции воздушных винтов с изменяемыми геометрическими параметрами в динамике и их эффективное применение в авиации, ветроэнергетике и в системе аккумуляции свободной – неиспользованной энергии.	Печ.	Сборник трудов XXI Международной научно-технической конференции «Машиностроение и техносфера XXI века». Севастополь 15-20 сентября 2014 г. ISSN 2079-2670, ББК К5я54, УДК 621.01(06)	267-273	
11.	Разработка методики подбора материалов для имплантов тазобедренного сустава человека и технология их обработки с достижением высокой точности и качества сферических поверхностей.	Печ.	Международный научно-технический журнал «Резание и инструмент». Выпуск №85. НТУ «ХПИ», Харьков, 2015 г. ISSN 2078-7405. ББК 34.63; УДК 621.91.	296-308	

List of scientific works of Raul Turmanidze

12.	Means of Enhancing the Efficiency of Renewable Energy Generation and Storage Methods	print	Collection of Scientific Papers "High Technologies in Mechanical Engineering". NTU "KhPI", Kharkiv, 1'2015 ISSN 2078-7677. BBC 34.63; UDC 621.91.	210-218	Tsikarishvili E.G., Popkhadze G.Z.
13.	Selection of materials for implants of the human hip-joint and technology of their machining with achievement of high precision and quality of spherical surfaces	print	5 th International conference "Economics and Management – Based on New Technologies EMoNT-2015". 18-21 June 2015. Vrnjačka Banja, Serbia. ISBN 978-86-6075-055-8	1-8	Aptsiauri T. Popkhadze G.
14.	New materials for human hip joint implants and the technology of their processing with the achievement of high accuracy and quality of spherical surfaces.	print	Proceedings of the XVI International Scientific and Technical Conference "Progressive Technology, Technology and Engineering Education". June 22-25, 2015 Odessa, Ukraine, Electronic version of the abstract. ISSN 2409-7160.	178-80	Aptsiauri T.S., Popkhadze G.Z.,
15.	New design of rotors with variable parameters in dynamics and their effectiveness for aircraft and wind stations	print	6 th European Conference for Aeronautics and Space Science EUCASS 2015. 29 June-3 July 2015. Krakow, Poland.	5	Tsikarishvili E. Popkhadze G.
16.	Propeller Designs with Variable Geometric Parameters in Dynamics and Their Application in Aviation and Wind Power	print	Bulletin of NTUU KPI, series "Mechanical Engineering". №74. Kyiv, Ukraine, 2015 http://journal.mmi.kpi.ua/article/view/51411 ISSN 2305-9001	140-145	
17.	Optimization of geometric parameters of hard metal micro drills to increase tool life and performance of drilling package of printed circuit boards	print	Proceedings in International Conference on Manufacturing Systems 2015.0 Volume 10, Issue 3. 2015 y. Romania http://www.icmas.eu/Volume10/Issue3_2015.htm	105-110	V. Bachanadze, G. Popkhadze

List of scientific works of Raul Turmanidze

18.	Selection of materials for implants of the human hip-joint and technology of their machining with achievement of high precision and quality of spherical surfaces	Печ.	Proceedings of the International Conference on Mechanics and materials in design. Delgada, Portugal, 26-30 July 2015. ISBN: 978-989-98832-2-2	9	T. Aptsiauri
19.	New design of rotors with variable parameters in dynamics and their effectiveness for aircraft and wind stations	Печ.	International TECHMART, 01-04 October 2015, Hanoi, Vietnam	7	E.Tsikarishvili G.Popkhadze
20.	მექანიკის ინჟინერიის ტექნოლოგიის საფუძვლები.	ნაბ.	სახელმძღვანელო, საგამომცემლო სახლი „ტექნიკური უნივერსიტეტი“, თბილისი, 2016 წ. ISBN 978-9941-20-650-4.	497 გვ.	დ. ბუცხრიკიძე, მ. შვანგირაძე
21.	New design of rotors with variable parameters in dynamics and their effective use in aviation and wind energy	Печ.	5th International Conference INTEGRITY – RELIABILITY - FAILURE Porto/Portugal, 24-28 July 2016. file:///C:/Users/User/AppData/Local/Temp/Rar\$EXa0.358/IRF2016/Proceedings/data/Preface.htm	425-432	G.Popkhadze
22.	Optimization of geometric parameters of hard metal micro drills to increase tool life and performance of drilling package of printed circuit boards	Печ.	International Journal for science, technics and innovation for the industry. Issue 7/2016, ISSN 1313-0226. Year X. Material of the IV International scientific conference "Engineering, Technologies, Education, Security 2016". 01 – 03 June 2016. Veliko Tarnovo, Bulgaria.	14-18	V. Bachanadze, G. Popkhadze
23.	New materials for implants of implants of the human hip joint and technolgt of their machining with the machivement of high precision and quality of spherical surfaces	Печ.	International Journal “Materials science. Non-equilibrium Phase Transformation”. Year II, ISSN 2367-749X. Issue 3/2016. Material of the IV International scientific conference "Engineering, Technologies, Education, Security 2016". 01 – 03 June 2016. Veliko Tarnovo, Bulgaria.	12-16	G. Popkhadze

List of scientific works of Raul Turmanidze

24.	New design of rotors with variable parameters in dynamics and their effective use in aviation and wind energy	print	International Journal for science, technics and innovation for the industry. Issue 10/2016, Print ISSN 1313-0226. WEB. ISSN 1314-507X. Year X. Material of the XXIII International scientific conference "Machines, Technologies, Materials". 14–17 september 2016. Varna, Bulgaria.	6-9	E.G. Tsikarishili, G.Z. Popkhadze
25.	Efficient Carbide Micro Drill Designs for Deep Hole Drilling of PCB Package	print	Proceedings of the International Scientific and Technical Conference "Progressive Technique, Technology and Engineering Education". June 21–24, 2016 Odessa-Kyiv, Ukraine.	199-203	V.I.Bachanadze, G.Z.Popkhadze
26.	Designs and manufacturing technology of small-sized carbide drills for the production of critical components of mechatronic systems	print	Proceedings of the International Scientific and Technical Conference "Hydroaeromechanics in Engineering Practice", May 24-27, 2016, Kyiv, Ukraine.	103-116	V.I.Bachanadze, G.Z.Popkhadze
27.	Study of the Efficiency of Using Carbide Microdrills with Variable Angle of Spiral Groove Inclination in Deep Drilling of Mechatronic Systems	print	International Scientific and Technical Collection "Cutting and Tools in Technological Systems". Issue 86. Kharkiv, Ukraine. ISSN 2078-7405. Proceedings of the XXIV International Scientific and Technical Seminar "High Technologies in Mechanical Engineering" – "Interpartner - 2016". 05 – 09 September 2016 Odessa, Ukraine	170-186	V.I.Bachanadze, G.Z.Popkhadze

List of scientific works of Raul Turmanidze

28.	Improving the performance of high-power wind farms through the use of rotors with variable parameters in dynamics and an efficient method of accumulating wind and solar energy.	print	Collection of Scientific Studies "Modern Technologies in Mechanical Engineering" Issue 11. Kharkiv, Ukraine. ISSN 2078-7499. Proceedings of the XXIV International Scientific and Technical Seminar "High Technologies in Mechanical Engineering" – "Interpartner - 2016". 05 – 09 September 2016 Odessa, Ukraine	197-207	
29.	Analysis of the work in Georgian technical University in the direction of creating the material "Technical base and highly qualified young educated personnel in order to meet the standards and challenges of the technological revolution "Industry 4.0".	print	International scientific Conference "Industry 4.0", 12-15 December 2016. Borovets, Bulgaria. ISSN 1310-3946	77-83	G.Pokhadze
30.	Ways to Improve Geometric Parameters and Manufacturing Technology of Carbide Precision Microtools for Machining Printed Circuit Boards and Other Parts of Mechatronic Systems.	print	Proceedings of the XXII International Scientific and Technical Conference "Hydromechanics in Engineering Practice", May 23-26, 2017, Cherkasy, Ukraine UDC 621.3.029+621.39	126-	V.I.Bachanadze, G.Z.Popkhadze
31.	The main requirements for research work against the background of the challenge of "Industry-4.0" and the analysis of the work carried out in improving the state of the material and technical base and increasing the 3rd level of training of young engineering personnel.	print	Proceedings of the XVIII International Scientific and Technical Conference "Progressive Technique, Technology and Engineering Education", June 29-July 1, 2017, Kyiv, Ukraine, UDC 612.7	379-382	G.Z.Popkhadze
32.	New Ways to improve the geometric parameters and technology of manufacturing hard metal micro tools for processing of printed circuit boards and other details of mechatronic system.	print	Materials of the 7 th International Conference "Economics and Management - Based On New Technologies", EMoNT -2017/ Vrnjačka Banja, Serbia, 15-18 June 2017.	1-9	V.Bachanadze, G.Popkhadze

List of scientific works of Raul Turmanidze

33.	The efficiency of rotors with variable geometri parameters in the dynamics and consumption, in aviation and high power wind stations.	Print	Materials of the 7 th International Conference on Mechanics and materials in design. Albufeira, Portugal, 11-15 June 2017. ISBN: 978-989-98832-6-0	303-304	I. G.Popkhadze
34.	Basic technological processes required to create mechatronic sistems to meet today's needs and problems of their instrumental support of "Industry 4.0" challenges	Print	International saintific journal "Inovations". Year V, Issu 3/2017, Sofia, Bulgaria, ISSN Print 1314-8907 ISSN WEB 2534-8469	123-128	V.Bachanadze, G.Popkhadze
35.	Optimization of the geometric parameters of hard metal micro drils to increase tool life and performance of drilling package of printed circuit boards, detals and the units of mechatronic sistem.	Print	International journal for science, technics and innovation for the industry. MTM –Machines, Sofia, Bulgaria, Technologies, Materials. Year XI, Issue 4/2017, ISSN Print 1313-0226 ISSN WEB 1314-507X	165-170	G.Popkhadze
36.	The efficiency of usage of new construction rotors with the ability simultaneously change basic geometric parameters in the dynamics and their consumption in the fields of aviation and high-power wind stations.	print	Materials of the 7th European conference for Aeronautics and Space Sciences (EUCASS 2017), 3-6 July, 2017 Milan, Italy.	6	G.Popkhadze
37.	ANALYSIS OF THE MAIN EXPECTED PROBLEMS DURING THE IMPLEMENTATION OF THE INDUSTRY-4.0 REFORM AND THE DEVELOPMENT OF WAYS TO SOLVE THEM IN PRACTICE ON THE BASIS OF IMPROVING THE EFFICIENCY OF THE	PRNT	XIV INTERNATIONAL CONGRESS SUMMER SESSION "MACHINES.TECHNOLOGIES. MATERIALS 2017" 13–16.09.2017 VARNA, BULGARIA ISSN 2535-0021(PRINT) ISSN 2535-003X (ONLINE)	236-245	V.Bachanadze, G.Popkhadze
38.	ANALYSIS OF THE MAIN EXPECTED PROBLEMS IN THE PERIOD OF IMPLEMENTATION OF THE INDUSTRY-4.0 REFORM AND DEVELOPING THE WAYS OF THEIR PRACTICAL SOLUTION BASED ON IMPROVING THE EFFICIENCY OF THE OPERATING CHARACTERISTICS OF USED MECHATRON SYSTEMS		17th International Conference "Research and Development in Mechanical Industry" RaDMI-2017 14-17 September 2017, Zlatibor Serbia. ISBN 978-86-6075-062-6	19-30	P. Dasic V.Bachanadze, G.Popkhadze

List of scientific works of Raul Turmanidze

39.	Technique of designing high-power cnc lathes for enterprises of heavy engineering industry		XXIII. International Conference. "MANUFACTURING" 7-8. june, 2018, Kecskemet, Hungary.	57	Viktor kovalov Yana vasilchenko Predrag dasic Tatyana sukova
40.	Analysis of dependence of the variable geometry rotor thrust from the rotor rotational speed		The 10th International Symposium - KOD 2018 - "MACHINE AND INDUSTRIAL DESIGN IN MECHANICAL ENGINEERING" 6 - 8 June 2018, Novi Sad, Serbia. ISBN 978-86-6022-059-4	184-185	Predrag dasic Giorgi popkhadze
41.	Survey of the role of modern requirement mechatronic systems in the process of implementation industry-4.0 reforms		8th International Conference "Economics and Management-Based on New Technologies" EMoNT-2018 25-28 June 2018, Vrnjačka Banja, Serbia. ISBN-10 86-6075-064-0 ISBN-13 978-86-6075-064-0	15-28	Predrag Dasic Giorgi Popkhadze Beata Borodavko
42.	Acoustic diagnostics of lever mechanisms with subsequent processing of data on neural networks		4 th International Conference "NEW TECHNOLOGIES NT-2018" 28-30 JUNE, 2018, Sarajevo, Bosnia and Herzegovina. ISSN 2303-7512	29	Sergiy Kovalevskyi Olena Kovalevska
43.	Selection Criteria of Optimal Characteristic Material and Technologies for Precision Processing of Basic Working Surface of Human Hip-Joint Implant		"IMT Oradea 2018" 31st May to 1st June 2018 Oradea, Romania ISSN 2285-3278 ISSN-L 2285-3278 ISBN 978-606-10-1537-5	343-348	Predrag Dasic Giorgi Popkhadze

List of scientific works of Raul Turmanidze

44.	MAIN EXPECTED PROBLEMS DURING THE IMPLEMENTATION OF "INDUSTRY-4.0" REFORMS AND THEIR PRACTICAL SOLUTIONS BASED ON IMPROVING THE EFFICIENCY OF USED MECHATRONIC SYSTEMS		6th International Conference "INTEGRITY-RELIABILITY-FAILURE" Lisbon / Portugal, 22-26 July 2018 ISBN: 978-989-20-8312-4 N. DL: 441087/18	171-172	V.Bachanadze, G.Popkhadze
45.	NEW DESIGNS OF ROTORS WITH VARIABLE GEOMETRY PARAMETERS IN DYNAMICS AND THEIR EFFECTIVE USE IN AVIATION AND WIND ENERGY		2018 SUSTAINABLE INDUSTRIAL PROCESSING SUMMIT AND EXHIBITION. 4-7 November 2018, Rio De Janeiro, Brazil	90	Paata kervalishvili Giorgi popkhadze
46.	Perspective ways for the development of endoprosthesis of human hip implants		2018 SUSTAINABLE INDUSTRIAL PROCESSING SUMMIT AND EXHIBITION. 4-7 November 2018, Rio De Janeiro, Brazil	65	Athanasios mamalis S. Sohan I. Rostotskiy Dimitriin Vladimirovich Efrosinis
47.	IMPROVING THE EFFICIENCY OF MECHATRONIC SYSTEMS IN ORDER TO ENSURE A HIGH INTENSITY OF THE INDUSTRY-4.0 REFORM		IV INTERNATIONAL SCIENTIFIC CONFERENCE SUMMER SESSION "INDUSTRY 4.0" , 24-27.06.2019, BURGAS, BULGARIA		P. Dašić, G. Popkhadze
48.	STUDY OF THE IMPACT OF THE OPERATIONAL CHARACTERISTICS OF MECHATRONIC SYSTEMS ON THE INTENSITY OF THE IMPLEMENTATION OF THE INDUSTRY-4.0 REFORM AND THE DEVELOPMENT OF WAYS TO IMPROVE IT		XXIV INTERNATIONAL SCIENTIFIC AND TECHNICAL CONFERENCE "HYDROAEROMECHANICS IN ENGINEERING PRACTICE", 27-30 May, 2019 Kyiv, Ukraine		P. Dašić, G. Popkhadze

List of scientific works of Raul Turmanidze

49.	IMPROVING THE EFFICIENCY OF MECHATRONIC SYSTEMS IN ORDER TO ENSURE INTENSIVE REFORM INDUSTRY-4.0		8th International Conference MECHANICS AND MATERIALS IN DESIGN, University of Bologna, 4-6 September, 2019		V.Bachanadze, G.Popkhadze
50.	Acoustic Diagnostics of Lever Mechanisms with Subsequent Processing of Data on Neural Networks		Springer, New Technologies, Development and Application, lecture Notes in Networks and Systems 42, ISSN 2367-3370	202-210	Sergiy Kovalevskyy Olena Kovalevska
51.	Robotics and automotion as a foundation of fourth industrial revolution- industry 4.0		Grabchenko's international conference on advanced manufacturing processes, september 10-13,2019, odessa, ukraine		Isak karabegovic Predrag dasic
52.	Digital infrastructure in Georgia as a condition for successful application Industry 4.0.		<i>Proceedings of the 4th International Scientific Conference "Industry 4.0 - 2019": Winter Session; Borovets, Bulgaria; 11-14 December 2019. Sofia</i>	174–177	Turmanidze R. Dašić P. Popkhadze G.
53.	Analysis of some socio-economic-technical indicators of Georgia. Plenary and Invited paper.		Proceedings of the 9th International Conference "Economics and Management-Based on New Technologies" (EMoNT-2019); Vrnjačka Banja, Serbia; 23-26 June 2019. Edited by Predrag Dašić. Vrnjačka Banja: 2019.	1–12.	Turmanidze R. Dašić P. Popkhadze G.
54.	Statistical analysis of the global competitiveness index (GCI) of Georgia.		Book of Abstracts of the 11th Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting, Multifunctional and Nanomaterials (JAPMED'11); Batumi, Georgia; 16-19 July 2019. Batumi (Georgia): Batumi Shota Rustaveli State University (BSU), 2019, ISBN 978-9941-462-97-9.	96–97.	Turmanidze R. Dašić P. Popkhadze G.

List of scientific works of Raul Turmanidze

55.	Повышение эффективности характеристик мехатронных систем с целью обеспечения высокой интенсивности реформы “Индустрия-4.0”		<i>Proceedings of the 4th International Scientific Conference “Industry 4.0 - 2019”. Summer Session</i> ; Burgas, Bulgaria; 24-27 June 2019. Sofia (Bulgaria): The Scientific Technical Union of Mechanical Engineering “Industry 4.0”, 2019, ISSN 2535-0153.	45–52.	Turmanidze R. Dašić P. Popkhadze G. Vatitadze G.
56.	Chapter 15: Investigation of operational characteristics of mechatronic systems in Industry 4.0.		Handbook of Research on Integrating Industry 4.0 in Business and Manufacturing. Edited by Isak Karabegović; Ahmed Kovačević; Lejla Banjanović-Mehmedović & Predrag Dašić. Hershey (Pennsylvania - USA): IGI Global, 2020,. ISBN 978-1-7998-2725-2. doi: 10.4018/978-1-7998-2725-2.ch015.	324–343	Turmanidze R. Dašić P. Popkhadze G.
57.	Statistical analysis of e-government development index (EGDI) of Georgia.		Lecture Notes in Networks and Systems (LNNS), Vol. 128 (2020) (Special Volume with: 6th International Conference "New Technologies" (NT-2020); Sarajevo, Bosnia and Herzegovina; 25-27 June 2020), ISSN 2367–3370 and ISBN 978-3-030-46816-3. doi: 10.1007/978-3-030-46817-0_105.	930–938.	Turmanidze R. Dašić P. Popkhadze G.
58.	Investigation of the dependence of axial force and torque on the geometric parameters of carbide micro-drills with variable slopes of spiral grooves.		International Scientific Journal Machines – Technologies – Materials (MTM), Vol. 14, Issue 2 (2020), ISSN 1313-0226.	65–69.	Turmanidze R. Dašić P. Popkhadze G.
59.	Digital infrastructure in Georgia as a condition for successful application Industry 4.0.		International Scientific Journal "Industry 4.0", Vol. 5, Issue 1 (2020), ISSN 2534-8582.	3–6.	Turmanidze R. Dašić P. Popkhadze G.

List of scientific works of Raul Turmanidze

60.	New compositions of metal-working coolants on basis of mono- and diglycerides of wastes.		The International Journal of Advanced Manufacturing Technology, Vol. 114, Issue (2021), pp. . ISSN 0268-3768. (JIF2019=2.633; Automation & Control Systems #32/63; Engineering, Manufacturing #25/50).		Avdeenko, A.P.; Fedorynov, M.V.; Dašić, P.V.; Turmanidze, R.; Burmistrov, K.S.; Toropin, N.V. & Konovalova, S.A
61.	Investigation of operational characteristics of mechatronic systems in Industry 4.0.		In: Research Anthology on Cross-Industry Challenges of Industry 4.0. Hershey (Pennsylvania - USA): IGI Global, 2021, pp. 1816–1835. ISBN 978-1-7998-8548-1. doi: 10.4018/978-1-7998-8548-1.ch092.		Turmanidze, R.; Dašić, P. & Popxadze, G
62.	Analysis of innovation activities in Georgia as a major factor in application of the Industry 4.0 concept.		Lecture Notes in Networks and Systems (LNNS), Vol. 233 (2021) (Special Volume with: 7th International Conference "New Technologies" (NT-2021); Sarajevo, Bosnia and Herzegovina; 24-26 June 2021), pp. 270–277. ISSN 2367-3370 and ISBN 978-3-030-75274-3. doi: doi: 10.1007/978-3-030-75275-0_31.		Turmanidze, R.; Dašić, P. & Popkhadze, G.
63.	Analysis of different innovation indicators in Georgia.		Plenary and Invited paper. In: Proceedings of the 11th International Conference "Economics and Management-Based on New Technologies" (EMoNT-2021); Vrnjačka Banja, Serbia; 20-23 June 2021. Vrnjačka Banja, Serbia: IGI Global, 2021. pp. 1-10. ISBN 978-1-7998-8548-1. doi: 10.4018/978-1-7998-8548-1.ch001.		Turmanidze, R.; Dašić, P. & Popkhadze, G.
64.	Influence of flame spraying on the mechanical and tribological properties of 42CrMo4 steel.		IOP Conference Series: Materials Science and Engineering, Vol. (2022) (Special Volume with: Annual Session of Scientific Papers "IMT-Oradea 2022"; Oradea-Felix Spa, Romania; 07-08 July 2022), pp. . ISSN 1757-8981.		Opačak, I.; Turmanidze, R.; Dašić, P. & Popkhadze, G

List of scientific works of Raul Turmanidze

65.	The role of the concept of Quality 4.0 in modern production.		In: Proceedings of the 12th International Conference "Economics and Management-Based on New Technologies" (EMoNT-2022); Vrnjačka Banja, Serbia; 19-22 June 2022. Vrnjačka Banja: SaTCIP Publisher Ltd., 2022, pp. . ISBN 978-86-6075-084-8.		Turmanidze, R.; Dašić, P. & Popkhadze, G
66.	Tribological examinations of X210Cr12 steel.		International Scientific Journal "Industry 4.0", Vol. 7, Issue 4 (2022), pp. 131–134. ISSN 2534-8582.		Opačak, I.; Turmanidze, R.; Dašić, P. & Popkhadze, G
67.	Trend implementacije industrijskih robota u svijetu sa osvrtom na primenu u Industriji 4.0.		U: Zborniku radova po pozivu Naučno-stručne konferencije sa međunarodnim učešćem "Tehnike i tehnologije za industriju 4.0" (TTI4.0-2022); Beograd, Srbija; 01. jul 2022. Beograd: Inženjerska akademija Srbije (IAS), 2022, str. 17–40. ISBN 978-86-87379-22-0.		Karabegović, I.; Turmanidze, R. & Dašić, P
68.	Analiza indeksa digitalne ekonomije i društva (DESI) kao pokazatelj za uspešnu primenu koncepta industrija 4.0.		U: Zborniku radova po pozivu Naučno-stručne konferencije sa međunarodnim učešćem "Tehnike i tehnologije za industriju 4.0" (TTI4.0-2022); Beograd, Srbija; 01. jul 2022. Beograd: Inženjerska akademija Srbije (IAS), 2022, str. 87–104. ISBN 978-86-87379-22-0.		Dašić, P.; Turmanidze, R.; Topalović, S.; Popkhadze, G.
69.	Determination of a safety factor of a car wheel rim using finite element analysis in SolidWorks.		Applied Engineering Letters, Vol. 7, Issue 4 (December 2022), pp. 163–171. ISSN 2466-4677. doi: 10.18485/aeletters.2022.7.4.4.		Desnica, E.; Đurđev, M.; Vaščić, B.; Turmanidze, R. & Dašić, P
	Simulation of point defects formation in the fuel element of a nuclear power plant's wave reactor		Journal of Engineering Sciences, Vol. 10, Issue 1 (2023), pp. F7–F10. ISSN 2312-2498. doi: 10.21272/jes.2023.10(1).f2.		Opyatyuk, V.V.; Kozlov, I.L.; Karchev, K.D.; Vistiak, S.V.; Kozlov, O.I.

List of scientific works of Raul Turmanidze

	Numerical modeling of point defect formation processes during the nuclear power plants operation		Lecture Notes in Mechanical Engineering (LNME): Advanced Manufacturing Processes IV (Selected Papers from the 4th Grabchenko's International Conference on Advanced Manufacturing Processes (Tbilisi, Georgia, 2022))		[1] Opyatyuk, V.V.; Kozlov, I.L.; Karchev, K.D.
1	Protection device for vine plantings.		Georgian patent, U 1878. 22/12/2014		Popkhadze, G
2	Energy system accumulating wind and solar energy.		Georgian patent,U 1906. 06/11/2015		Popkhadze, G
3	მოწყობილობა სალესი ჩარხისათვის ცვალებადი დახრის კუთხის სპირალური ან ხრახნული ღარების დასამუშავებლად.		Georgian patent 14452/01. 2017 წ.		Popkhadze, G Bachanadze ,v