2023 Call Research Grants for Young Scientists

Ranking Lists by the scientific fields

1. Natural sciences

N	Project ID	Project Title	Host institution	Final Score
1	YS-23-187	Adjustment of enantiomer migration order in	*	26
		capillary electrophoresis and its effect on	Tbilisi State	
	777 00 101	analytical method performance	University	0-
2	YS-23-131	Electromagnetic pollution background	Ivane Javakhishvili	25
		investigation/analysis at the locations of the	Tbilisi State	
		educational institutions of Tbilisi (Georgia) and assessment related possible risks	University	
3	YS-23-1927	Oxidation of prochiral sulfides into chiral	Ivane Javakhishvili	25
	13-23-1727	sulfoxides, including asymmetric synthesis, and	Tbilisi State	23
		enantioseparation of synthesized products in	University	
		chiral chromatography.		
4	YS-23-996	Risk assessment of invasiveness of non-native	Ilia State University	25
		aquatic plants and horizon species in Georgian		
		wetlands		
5	YS-23-1078	Structural interpretation of central part of the	Ivane Javakhishvili	24
		Kura foreland fold-and-thrust belt using seismic	Tbilisi State	
	777 00 110	profiles, Georgia	University	0.0
6	YS-23-160	Instability of Solar Spicules	Ilia State University	23
7	YS-23-167	Synthesis and Electromagnetic Properties of	Ilia Vekua Sukhumi	23
		Hybrid Polymer Nanocomposites	Institute of Physics	
			and Technology	
8	YS-23-670	Study of the dynamics of some meteorological	Ivane Javakhishvili	23
		parameters on the background of the course of	Tbilisi State	
		dangerous weather events on the territory of	University	
0	YS-23-119	Georgia.	The Georgian	22
9	15-25-119	Bronze Age human activity in the territory of Georgia and determination of the role of wheat	The Georgian National Museum	<u> </u>
		(Triticum) in the ration based on the phytoliths'	TVALIOITAT IVIUSEUIII	
		study		
10	YS-23-297	Complex research/analysis of Kutaisi urban area	Akaki Tsereteli State	22
		and creation of digital atlas using GIS technology	University	
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11	YS-23-3328	Mixed Boundary Value Problems in an Angular Domain	The University of Georgia	21
12	YS-23-403	Bacteriophages as a Potential Tools for Biocontrol of Listeria monocytogenes in Food Products	G. Eliava Institute of Bacteriophages, Microbiology and Virology	21
13	YS-23-1164	Pseudo and true random number generators for post-quantum digital signature schemes	Caucasus University	21
14	YS-23-133	Basic study of U and Th ore occurrences in the pre- Alpine formations of Khrami crystalline massif (Caucasus)	Ivane Javakhishvili Tbilisi State University	20
15	YS-23-418	Activity Pattern Recognition in Artificial Intelligence	Ivane Javakhishvili Tbilisi State University	20
16	YS-23-3376	Biological activity of bacteria and their viruses under different environmental conditions and stress-induced changes	Ivane Javakhishvili Tbilisi State University	19
17	YS-23-751	Investigation of Some Important Properties for Unranked Theories	Ivane Javakhishvili Tbilisi State University	18
18	YS-23-259	Inhibition of Cancer Cell Proliferation in the CACO-2 Cell Line Using Fluorescent Dye-Sensitized Titanium Dioxide Nanoparticles	Georgian Technical University	18
19	YS-23-147	Convergence and strong summability of Fejer means and T means in Martingale Hardy spaces	The University of Georgia	17
20	YS-23-626	Development of innovative technologies for the valorization of grape wine processing waste to reduce the negative impact on the environment using the principles of a circular economy	Batumi Shota Rustaveli State University	16
21	YS-23-243	New diazole/triazole/coumarin-containing tricyclic systems: synthesis and identification	Georgian Technical University	16
22	YS-23-281	Assessment of colonization with methicillin- resistant Staphylococcus aureus (MRSA) among medical students and determination of antibiotic and phage sensitivity of collected bacterial isolates.	G. Eliava Institute of Bacteriophages, Microbiology and Virology	16
23	YS-23-263	Elaboration of high energetic plastic explosives on the base of utilized gunpowder and investigation of their characteristics	LEPL G.Tsulukidze Mining Institute	15
24	YS-23-581	Development of innovative technologies for the valorization of citrus fruit processing waste to	Batumi Shota Rustaveli State University	15

		reduce the negative impact on the environment using the principles of a circular economy		
		using the principles of a circular economy		
25	YS-23-2669	Applications of Optimal Transport in WRF model	Ivane Javakhishvili	15
			Tbilisi State	
			University	
26	YS-23-1611	Threats and countermeasures caused by mudflow	ECOCENTER FOR	14
		risks on engineering solutions	ENVIRONMENTAL	
			PROTECTION	
27	YS-23-1071	A study of the energy potential and reporting	ECOCENTER FOR	12
		characteristics of mudslide formation	ENVIRONMENTAL	
			PROTECTION	
28	YS-23-166	Study of the activity of complex liposomes	Ivane Javakhishvili	11
		containing Calcium ions on model systems of	Tbilisi State	
		animal cells	University	

2. Engineering and Technologies

N	Project ID	Project Title	Host institution	Final Score
1	YS-23-267	Study of the possibility of using Georgian kaolinized clays in the production of cement and refractory ceramic materials	Ivane Javakhishvili Tbilisi State University	25
2	YS-23-511	Preparation of nanomagnetite stabilized with biocompatible modifiers for use in the biomedical field	Georgian Technical University	24
3	YS-23-2182	Obtaining and Investigation of Ceramic Composite Materials Reinforced with Basalt Fibers	Ilia Vekua Sukhumi Institute of Physics and Technology	24
4	YS-23-796	A New Method for Calculating Composite Spatial Constructions, Algorithm and Software	Georgian Aviation University	23
5	YS-23-098	Development of the innovative technology of a new combined system to solve the problems of water supply in the settlements of the arid zone of Georgia.	Georgian Technical University	22
6	YS-23-543	Synthesis, characterization, and in vitro study of antitumor drug-loaded/superparamagnetic iron oxide nanocarriers on human triple-negative breast cancer cells	Georgian Technical University	20

7	YS-23-476	Development of rational technology of gold-bearing ores based on statistical modeling	LEPL G.Tsulukidze Mining Institute	19
8	YS-23-452	Obtaining new armor composite materials and researching their properties	Georgian Technical University	19
9	YS-23-514	Modern methods of numerical solution of problems of dynamic loading of solid bodies with shock waves		19
10	YS-23-3538	Tl-based high-temperature superconductor materials obtained by a vapor diffusion process	Ilia Vekua Sukhumi Institute of Physics and Technology	17
11	YS-23-371	Biotechnological Approach for Soil Remediation in Georgia	Ivane Javakhishvili Tbilisi State University	17
12	YS-23-633	Recommendations for the introduction of seismic isolation systems for the protection of buildings against earthquakes in Georgia and deterministic prediction of damage levels	Georgian Technical University	16
13	YS-23-1582	The risks of landscape infrastructure sustainability and protection against natural anomalies	ECOCENTER FOR ENVIRONMENTAL PROTECTION	16

3. Medical and health sciences

N	Project ID	Project Title	Host institution	Final Score
1	YS-23- 1171	Rare and complex epilepsies – correlation between etiology and outcome	David Tvildiani Medical University	26
2	YS-23-	Evaluation of plasma circulating p28 / gankirin and	Ivane Javakhishvili	24
	2459	micro-RNA markers in the diagnosis of renal cell carcinoma and its recurrence	Tbilisi State University	
3	YS-23-	Formulation and development of bioadhesive	Tbilisi State Medical	23
	4243	nanocomposite gel and film for treatment of stomatitis	University	
4	YS-23-	Creating new pulp of the tooth using	Ivane Javakhishvili	22
	1748	bioengineering methods and determining its	Tbilisi State	
		effectiveness in an animal experiment	University	
5	YS-23-	Correlation of epigenetic changes and hormone	Tbilisi State Medical	20
	2589	dependence in neoplastic processes of endometrium	University	

6	YS-23-	An improved QPA method for molecular	Ilia State University	20
	1860	diagnostics		
7	YS-23-771	Evaluation of the impact of interdisciplinary team work on the oral health of patients with autism spectrum disorder	•	20
8	YS-23-559	Detection and quantitative analysis of TP53 gene methylation using Au nanoparticles	P.Shotadze Tbilisi Medical Academy	18

4. Agricultural sciences

N	Project ID	Project Title	Host institution	Final Score
1	YS-23-	Isolation and NGS based characterization of	Batumi Shota	23
	453	biologically active antagonistic microorganisms	Rustaveli State	
		from different ecological environments against	University	
		phytopathogenic bacteria		
2	YS-23-	Creating a predictable model of natural restoration	Scientific-Research	22
	779	for subalpine birch forest	Centre of	
			Agriculture	
3	YS-23-	Molecular-Genetic analysis of the Alternaria	Batumi Shota	21
	2825	genus, common in the family Solanaceae crop	Rustaveli State	
			University	
4	YS-23-	Using of Innovation Methods for Protection	ECOCENTER FOR	18
	1749	Reclamation Objects from Floods (on the example	ENVIRONMENTAL	
		of Dusheti Municipality)	PROTECTION	
5	YS-23-	Research on the effectiveness of the innovative	ECOCENTER FOR	15
	3152	drainage system and the study of the quality of	ENVIRONMENTAL	
		drained water in the wetlands of Western Georgia	PROTECTION	
6	YS-23-	Identification of rare, autochthonous and	Batumi Shota	15
	102	economically promising apple and pear varieties	Rustaveli State	
		common in Adjara, study of the chemical	University	
		characteristics of the fruit and its conservation		

5. Social sciences

N	Project ID	Project Title	Host institution	Final Score
1	YS-23-691	Dynamics of Interconnected Crises in the South Caucasus: Magnetism to tourism amid political (in)stability	Ivane Javakhishvili Tbilisi State University	26
2	YS-23-900	Palliative care practices in Georgia: at the crossroads of sociocultural, theological and scientific perspectives	Ilia State University	24
3	YS-23-869	Participation of Ordinary Courts in the Protection of Constitutional Legality: Constitutional Submission as a Mechanism for the Protection of the Human Rights and the Perspective of its Development	Ivane Javakhishvili Tbilisi State University	24
4	YS-23- 3460	Balancing Privacy and Progress: Personal Data Protection in the Age of Artificial Intelligence	Ivane Javakhishvili Tbilisi State University	23
5	YS-23-664	Conformity of Legal Regulation and the Georgian Court Practice for the Prohibition of Labor Discrimination due to Political or other Opinions in the Context of Harmonization with EU Law	Sulkhan-Saba Orbeliani University	22
6	YS-23- 1191	Ways to Improve Municipal Financial Management in Georgia	Georgian Technical University	21
7	YS-23- 1443	Relationship between environmental information disclosure in management reports and company performance in developing economy – case of Georgia	Caucasus University	20
8	YS-23-657	Assessment of the quality of research and its challenges at master's level (Example of Georgia)	International Black Sea University, LLC	20
9	YS-23- 1503	Institutional Arrangement of Professional Trainings of Judicial Candidates and Judges as a Prerequisite for an Independent and Effective Justice	Alte University	20
10	YS-23- 1266	Unraveling Sensory Disturbances in Comorbid Eating Disorders and Autism: A Path to Innovative Digital Interventions	Free University of Tbilisi	19
11	YS-23-380	The Process of Digital Transformation and Its Impact on Education Quality Assurance in Higher Educational Institutions of Georgia	TSU Center for Analysis and Forecasting	18

12	YS-23-	A Systematic Review of Psychological	Ivane Javakhishvili	17
	1999	Determinants Impacting Student Attrition in	Tbilisi State	
		Higher Education	University	
13	YS-23-	Impact of tax cooperation with the European	Batumi Shota	16
	2496	Union on investments and fair competition.	Rustaveli State	
			University	
14	YS-23-094	Language Phenotypes in Children with Autism	Ivane Javakhishvili	13
		Spectrum Disorder and Developmental	Tbilisi State	
		Language Disorder: A Systematic Review of	University	
		Empirical Evidence.		
15	YS-23-	From Research to Teaching Development – in	Caucasus University	10
	4178	the Context of the Europeanization of Georgian		
		Law		

6. Humanities

N	Project ID	Project Title	Host institution	Final Score
1	YS-23-447	Theological Doctrine of the Iberian Church from the Fourth to the Seventh Centuries	Caucasus University	27
2	YS-23- 1190	The Therapy of Mind and the Power of the Therapeutic Word in Ancient Greece	Ivane Javakhishvili Tbilisi State University	26
3	YS-23-320	Arbitrary Beliefs and the Demands of Rationality	Ilia State University	24
4	YS-23-697	Persian manuscripts copied in Tbilisi: historical, source-studies and codicological studies	Korneli Kekelidze Georgian National Centre of Manuscripts	24
5	YS-23- 1201	From the history of bilingual lexicography of the 18th century (the first Italian-Georgian dictionary of medicinal plants)	Ilia State University	24
6	YS-23-327	Phenomenologically Grounded Qualitative Research of Pre-Reflective Bodily Experience in Disability Team Sports	Ivane Javakhishvili Tbilisi State University	23
7	YS-23- 4170	Georgian Diaspora - A study of Metaphorical Models among Georgian transnational communities	Ivane Javakhishvili Tbilisi State University	22
8	YS-23-209	Issues of Cultural Diversity and Policy of Ethnoculture (on the example of the collections of Niko Berdzenishvili Kutaisi State Historical Museum)	Kutaisi State N. Berdzenishvili Historical Museum	22

9	YS-23-222	Transference of Aphorisms from "The Knight in the Panther's Skin" in Russian Translations: A Comparative Analysis	Batumi Shota Rustaveli State University	22
10	YS-23-437	Corpus Linguistic and Linguoculturological Analysis of Turkish and Azerbaijani Translations of "The Knight in the Panther's Skin"	Batumi Shota Rustaveli State University	21
11	YS-23- 1134	Iranian non-ferrous metal objects in the National Museum of Georgia	The Georgian National Museum	19
12	YS-23-111	The creative relationship between prominent representatives of calligraphers of the Middle Ages - Alexi Meskhishvili, Archpriest of Anchiskhati church, and Nikoloz Mikadze, Archpriest of Sion church in Tbilisi.	Korneli Kekelidze Georgian National Centre of Manuscripts	17
13	YS-23- 1680	Political Discourse in Irish Modernist and Post- Modernist Literature (James Joyce, Flann O'Brien, Frank McGuinness)	Ivane Javakhishvili Tbilisi State University	17
14	YS-23-358	Patristic exegesis of Biblical Old Testament Theophanies	N(N)LE Tbilisi Theological Academy and Seminary of the Apostolic Autocephalous Orthodox Church of Georgia	16
15	YS-23-110	New AMS dates and absolute chronology of South-Western Georgia	Batumi Shota Rustaveli State University	16
16	YS-23- 3986	Heidegger and the question of philosophy (According to the private notebooks of 1936-1944)	Ivane Javakhishvili Tbilisi State University	15
17	YS-23-101	Unique Prophetic Actions in the Contemporary International Context	Korneli Kekelidze Georgian National Centre of Manuscripts	15
18	YS-23-927	The Soviet and post-Soviet era in the eyes of the Georgina literature of the 21st century	Ivane Javakhishvili Tbilisi State University	14
19	YS-23- 2888	The relationship between cinema and literature in the Georgian Soviet press (comparative analysis)	Ivane Javakhishvili Tbilisi State University	13

20	YS-23-	Intercultural Communication Between	Ivane Javakhishvili	12
	1102	Georgian and Foreign Students: Intercultural	Tbilisi State	
		Incidents, Problems and Challenges (the Case	University	
		of Georgian Universities)		
21	YS-23-	Religious-denominational problems in Georgia	N(N)LE Tbilisi	12
	1705	(Catholicism XX century)	Theological	
			Academy and	
			Seminary of the	
			Apostolic	
			Autocephalous	
			Orthodox Church of	
			Georgia	
22	YS-23-527	Georgian ethny after the Collapse Kingdom of	Ivane Javakhishvili	9
		Georgia (15th-17th centuries): common	Tbilisi State	
		memory, myths, symbols and sense of common	University	
		destiny		

7. Georgian studies

N	Project ID	Project Title	Host institution	Final Score
1	YS-23-157	Nunneries and nuns in medieval Georgia	Korneli Kekelidze	24
		(works of historical and source studies)	Georgian National	
			Centre of	
			Manuscripts	
2	YS-23-639	Mountainous Colchis (Lechkhumi): Its	Tsageri Historical	24
		importance in the development of metallurgy	Museum	
		in the ancient world		
3	YS-23-1753	Wine Tourism Development Through Sensory	Ilia State University	24
		Wine Marketing and Guest Experience		
		Creation		
4	YS-23-1647	Commercialization, dedication to the	Caucasus University	24
		profession and environmental uncertainty:		
		Georgian auditors' perspective		
5	YS-23-840	Agricultural Activity in the Territory of Kvemo	The Georgian	24
		Kartli 8000 years ago according to Millstones	National Museum	
		from the Arukhlo I Neolithic Settlement		
6	YS-23-878	The Use of Solar Energy In Georgia's Real	Georgian Technical	20
		Estate Market	University	

7	YS-23-106	References of Arab geographers of the IX-X	Ivane Javakhishvili	19
		centuries about the Caucasus and Georgia	Tbilisi State	
			University	
8	YS-23-928	Investigation of radon radioactive emission in	Ivane Javakhishvili	17
			,	
		Tbilisi subway stations	Tbilisi State	