

Ivane Javakhishvili Tbilisi State University



**Report on the 2023 scientific-research activities of the TSU educational units
(faculties) and its independent institutes**

Tbilisi

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Report on the 2023 scientific-research activities of the TSU educational units (faculties) and its independent institutes

Tbilisi State University acts in compliance with the Law of Georgia "On Higher Education", the Law of Georgia "On Science, Technology and Their Development", the Law of Georgia "On Quality Assurance of Education", the University Charter, in-college regulatory acts, and through field regulating international and national standards, guidelines, and local and international best practices in order to evaluate the scientific and research activities of academic, invited and scientific personnel.

The TSU evaluates the academic, scientific-research and arts-related activities of the academic, invited and scientific personnel in accordance with the in-college regulations, the resolution of the Academic Council of February 26, 2018 - N78/2018, on the evaluation rule of academic and scientific-research activities and Resolution N81/2018 on the staff evaluation rule of LEPL Ivane Javakhishvili Tbilisi State University.

According to the said resolutions, the evaluation implies assessing the academic and scientific, invited personnel and teachers of the TSU main educational units (faculties) and its independent scientific-research units on their teaching and scientific-research, arts-related activities. The process might include the application of various forms of scientific bibliometrics, or the participation of foreign evaluators by the decision of the councils of the main educational units and scientific councils of independent scientific-research units.

The assessment of educational, scientific-research and arts-related activities of the university staff is carried out on the basis of the self-assessment reports and the criteria presented in them that are determined by the staff assessment procedure established by the Academic Council. In accordance with the established rule, the results of the self-assessment are discussed and evaluated by the councils/scientific councils of the relevant structural units, and the report of the scientific-research and arts-related activities of the staff is submitted to the Quality Assurance Service of the university for the purpose of its analysis and further improvement of the TSU staff activities. The Quality Assurance Service of the university then presents the recommendations developed on the basis of the analysis of the report of the scientific-research and arts-related activities of the staff to the Academic Council for the purpose of further development.

The evaluation of scientific-research activities of academic, invited and scientific personnel has a genuine significance in the process of evaluating the university's performance and research productivity, since the data obtained, analysed and studied throughout the evaluation process provide valuable information in several priority areas, including quality assurance of research/creative activities, professional development, recognition and motivation, financial or material support, management and accountability system.

Generally, the evaluation of academic/research staff contributes to developing an institutional culture and is necessary both to maintain and improve existing standards. A systematic, objective and transparent evaluation process, which is carried out on the basis of pre-developed and written forms and indicators, increases the credibility of both the university community and external actors at large towards the institution and its staff.

In addition, the report provides information about the productivity of university staff and their professional development opportunities. The feedback allows professors, scientists and researchers to identify their own strengths and areas for improvement. In addition to promoting professional growth, the continuous evaluation cycle contributes to allocating resources effectively, because identifying strong areas and the ones that need improvement at the scientific-research institute and university level allows to ensure the optimal use of financial, material or human resources to properly support research and academic activities. The existing system of evaluating the research performance of the staff allows the university to acknowledge and encourage outstanding achievements. Acknowledgment maybe exercised through promotions, awards, grants, which motivate the TSU staff to put more efforts to their work.

Evaluation results also define the decision-making processes at various levels, including institutional policies, funding allocations, and research priorities. The objective assessment data facilitate informed decision-making, leading to better outcomes for academia and research in general.

Evaluation facilitates the establishment and further development of the accountability system within the institution, ensures transparency of academic practices and promotes stakeholder engagement, while enabling the institution to make research-based and needs-oriented decisions.

Throughout the reporting period, the TSU Quality Assurance Service analysed and studied the self-evaluation forms and annual reports filed by the staff of the 7 educational units (faculties) and 16 independent scientific-research institutes. This report separately presents the evaluation results of the independent scientific-research institutes and faculties.

Scientific-research activities of the faculties in 2023

In the reporting period of 2023, the total number of staff (including academic, scientific, guest) employed at 7 faculties of TSU is 2289 persons. Among them, the academic staff is 730 (Professor - 168, Associate Professor - 411, Assistant Professor - 136, Assistant - 15, invited - 1494 and Scientific Staff - 21). The total number of affiliated academic staff is 718, of which 164 are affiliated professors, 404 are affiliated associate professors, 135 are affiliated assistant professors, and all 15 assistants are affiliated. The number of foreign academic/guest staff involved in teaching at all 7 faculties is 40 people.

During the reporting period, 1866 publications were created by TSU academic and invited staff, including:

1. Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities) - 398
2. A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate - 386
3. Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar - 831
4. Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code - 159
5. Other - 92

During the reporting period, the academic and invited staff of the Faculty of Exact and Natural Sciences developed the largest number of scholarly articles - a total of 697 articles. The said faculty has the most scientific workers from the TSU independent scientific research institutes participating in educational programs. The Faculty of Humanities is in the second place with 446 articles, and the Faculty of Economics and Business is in the third place with 318 articles. During the reporting period, the staff of the Faculty of Medicine developed 163 articles, the Faculty of Psychology and Educational Sciences – 95 articles, and the Faculty of Law – 72 articles. Chart 1 shows the number of publications made by the faculties in different categories.

Chart 2 shows the distribution of data in the case of academic and invited staff. As shown, in the Faculties of Exact and Natural Sciences, Humanities, Economics and Business, Social and Political Sciences, and Medicine, the academic staff has much higher scholarly performance than the invited staff, both in quantitative and qualitative terms (i.e., having articles published in high-rated, impact-factor journals).

Chart N1

- A scientific article in an impact-factor journal indexed by Web of Science/ERIH
- A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate
- Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution/all articles published abroad indexed in Google Scholar
- Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code
- Other

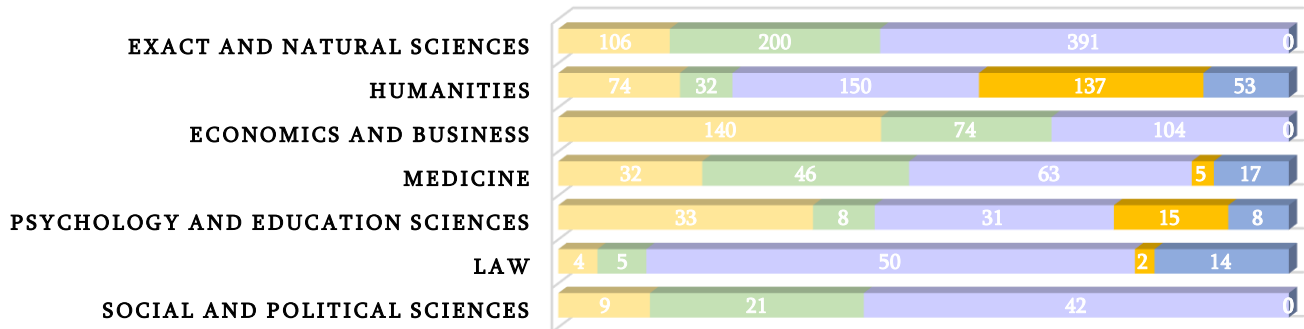
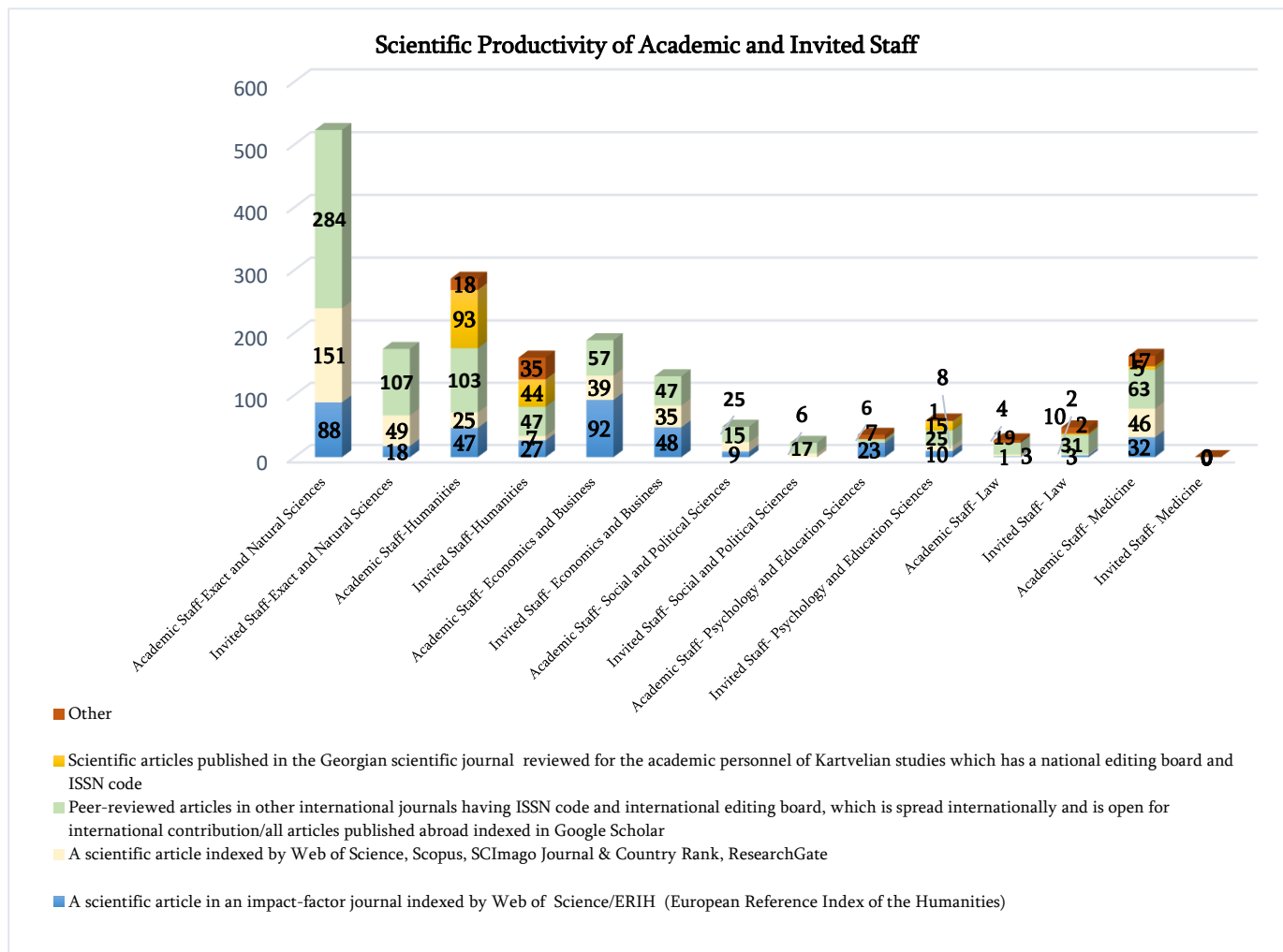


Chart N2



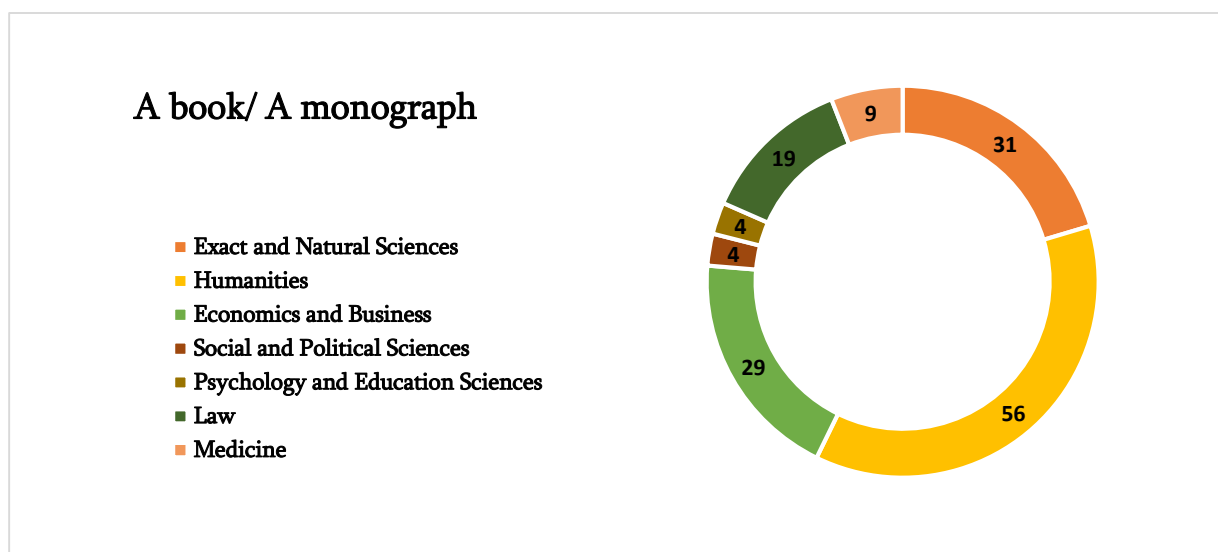
- Other
- Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code
- Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution/all articles published abroad indexed in Google Scholar
- A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate
- A scientific article in an impact-factor journal indexed by Web of Science/ERIH (European Reference Index of the Humanities)

During 2023, 152 books/monographs were created by the academic and guest staff of TSU faculties. The mentioned category includes the following subcategories:

1. International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate- 44 monographs were prepared and published
1. Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research) - 83 monographs
2. Other - 82 monographs

Chart N3 shows the statistics of creation of books/monographs by faculties:

Chart N3.



During the reporting period, 658 articles were created by the TSU staff of faculties in the category - Article in the Conference Proceedings /Chapter in a Book or Articles Publication, including:

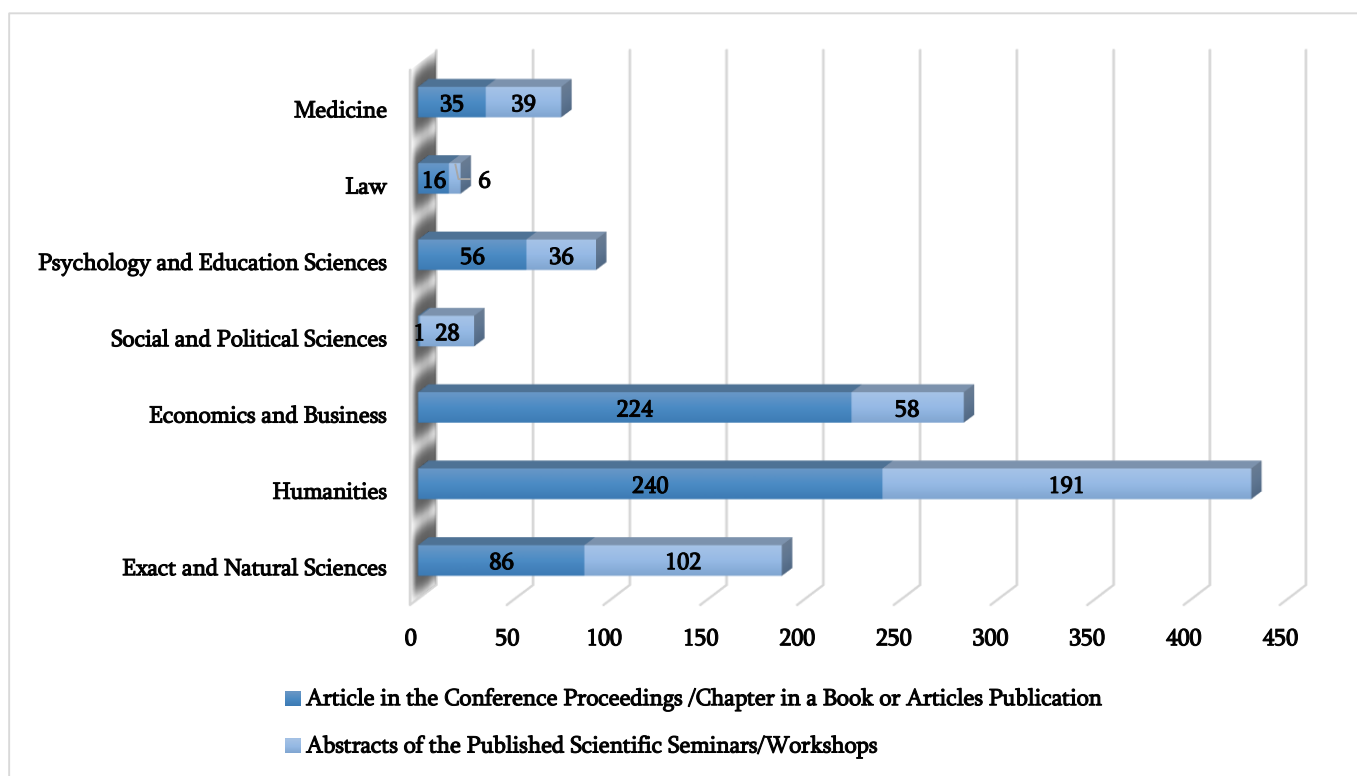
1. Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus - 149
2. Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar - 423
3. Other - 84

And, in the following category - Abstracts of the Published Scientific Seminars/Workshops, a total of 460 theses have been published, including:

1. Conference abstracts indexed by Web of Science or Scopus - 84
2. Conference abstracts indexed by Google Scholar - 363
3. Other - 13

Chart N4 shows the distribution of article in the conference proceedings/chapter in a book or articles publication and abstracts of the published scientific seminars/workshops published by faculties's staff.

Chart N4.



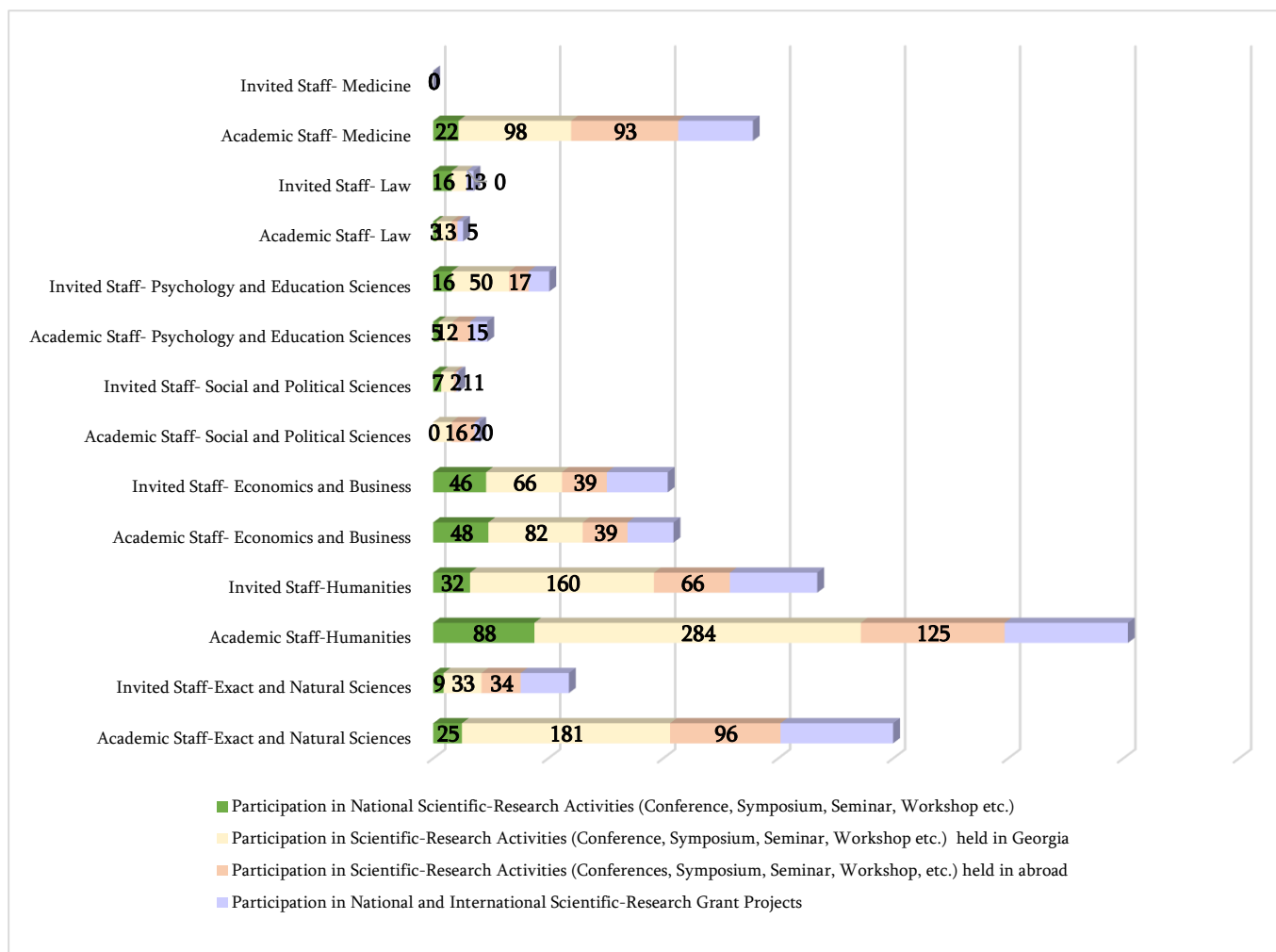
During 2023, in the category of inventions/patents, the following 6 patents were created by the academic staff of the faculties of medicine and exact and natural sciences:

1. Device for Creating Pulsating Blood Flow, № U 2023 2149 Y
2. Preventive composition for removing lead from the body and its exposition effects, № U 2020 2032 Y
3. Portable device for management of artificial blood flow, № U 2022 2139 Y
4. Apparatus for Artificial Blood Circulation, № U 1888
5. The method of obtaining thin films by means of magnetron sputtering with ultraviolet beam №AP 16309
6. The method of fabrication of photoreceivers working in ultraviolet range, №AP 16340

As for the participation in national and international scientific-research grant projects, 531 persons from the faculty were involved in 2023.

The participation of personnel in the national scientific-research event (conference, symposium, seminar, workshop, etc.) is recorded 317 times. The number of participants in the scientific-research event held in Georgia (conference, symposium, seminar, workshop, etc.) is 1019, and the number of participants in the scientific-research event held abroad (conference, symposium, seminar, workshop, etc.) is 551 (see chart N5).

Chart N5



Conclusions and recommendations

According to the staff self-assessment questionnaires (of both invited and academic staff), the staff of the TSU faculties are actively involved in scientific research activities; they systematically publish articles in local (Georgian) and high-rated magazines published in other counties. In addition to scientific articles, throughout the reviewed academic year, TSU staff members published and translated a number of textbooks and commentaries in various fields. Based on the results of the assessment, the faculties make sure that staff member’s research activities are presented at the international level, which is confirmed by the rate of the academic staff participation in international conferences. During the reporting period, the majority of academic staff were actively involved in scientific-research grant projects, local or international conferences, seminars and symposiums; 6 patents were created with the participation of the faculty staff.

The following are the strong points identified during the evaluation of the scientific activities of the TSU faculty staff:

- High scholarly performance of the academic staff, which is confirmed by the number of articles published in the WEB of Science journals and SCOPUS;
- The participation rate of the academic and invited personnel in the research projects, scientific forums and conferences funded within the framework of the faculties;

- The faculty's financial support, which is manifested in funding the faculty staff, students – participating in international conferences, publishing articles in highly rated scientific database, mobility and other relevant initiatives;
- Having students of all three levels actively participate in scientific research and conferences/forums/seminars, etc.;
- High rate of staff participation in international scientific-research grant projects;
- Constant updating of educational resources (developing and/or translating textbooks);
- The TSU International Advisory Board, which is honoured to include highly ranked scientists and medical workers from around the world.

Recommendations for future development

Based on the evaluation results, and the information provided by the faculties, the Quality Assurance Service identified several priority areas and developed certain recommendations for further improvement. In particular, in order to ensure further scientific research development, TSU faculties need support in the following:

- increasing the financial support from the faculty budgets for the strengthening of fundamental and applied research;
- Creating an independent budget fund for scientific research specifically;
- Strengthening the support of faculty staff in developing patents;
- Finding international consortia and facilitating the integration of faculties/enhancing cooperation with the faculty staff;
- Increasing the staff participation in international grant projects and for this purpose, conducting trainings for the preparation of grant projects and deepening knowledge in this respect;
- Including the faculty scientific journals in international rating databases. Thus, the faculty staff will have the opportunity to publish more articles in international refereed journals and increase their citation index;
- Ensuring continuous improvement of the university infrastructure to facilitate educational and research processes.

Quantitative Data According to Faculties
2023 Year

Table N1

N	Evaluation criteria for the scientific-research activities	Exact and Natural Sciences		Humanities		Economics and Business		Social and Political Sciences		Psychology and Education Sciences		Law		Medicine		Sum
		academic staff	Invited staff	academic staff	Invited staff	academic staff	Invited staff	academic staff	Invited staff	academic staff	Invited staff	academic staff	Invited staff	academic staff	Invited staff	
1	Article in a Scientific Journal	523	174	286	160	188	130	49	23	36	59	27	48	163		1866
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	88	18	47	27	92	48	9		23	10	1	3	32		398
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	151	49	25	7	39	35	15	6		8	3	2	46		386
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	284	107	103	47	57	47	25	17	6	25	19	31	63		831
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code			93	44						15		2	5		159
1.5	Other			18	35					7	1	4	10	17		92
2	A book/ A monograph	28	3	49	7	12	17	2	2	3	1	9	10	9		152
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	12	1	6	2	9	7					1	1	5		44
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	2	1	43	5	3	11		2	2	1	6	5	0		83
2.3	Other	14	1	49	7			2			1	2	4	4		82
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	58	28	183	57	119	105	1			19	37	5	11	35	658
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	33	18	11	5	20	26				3	18	2		13	149
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	24	10	162	52	76	35	1			15	19	3	4	22	423
3.3	Other	1		10		23	44				1			7		86
4	Abstracts of the Published Scientific Seminars/Workshops	62	40	160	31	44	14	23	5	12	24		6	39		460
4.1	Conference abstracts indexed by Web of Science or Scopus	14	20	2	8	18	6				3			13		84
4.2	Conference abstracts indexed by Google Scholar	42	17	158	23	26	8	23	5	11	21		5	24		363
4.3	Other	6	3							1			1	2		13
5	Inventions and Patents	2												4		6
6	Participation in National and International Scientific-Research Grant Projects	98	42	107	76	40	53	4	2	15	18	5	6	65		531
7	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	25	9	88	32	48	46		7	5	16	3	16	22		317
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	181	33	284	160	82	66	16	11	12	50	13	13	98		1019
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	96	34	125	66	39	39	20	2	15	17	5		93		551
10	Additional Teaching and Other Activities	205		88	87	89	81	3		32	18	64	59	141		867
10.1	Preparation of a textbook	12		13	5	16	4	3		6	11	3	1	10		84
10.2	Translation of a textbook	3		1	2	10	12			1	7	1	2	2		41
10.3	Participation in the professional development activities (training, seminar, workshop etc.)	190		74	80	63	60			25		60	56	129		737

Faculty of Exact and Natural Sciences
Scientific Research Activities Performed in 2023

According to the data of 2023, the total number of staff (including academic, scientific, invited) employed at the faculty is 318 persons. Among them, 145 are academic (professors - 35, associate professors - 67, assistant professors - 43, assistants - 0, invited - 167 and scientific staff - 3). The total number of affiliated academic staff is 144, of which 35 are affiliated professors, 67 are affiliated associate professors, and 42 are affiliated assistant professors. The number of foreign academic/invited staff involved in teaching is 3.

Table N2

N	Evaluation Criteria of Scientific –Research Activity	Academic staff	Invited staff
1	Article in a Scientific Journal	523	174
1.1	A scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	88	18
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	151	49
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	284	107
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code		
1.5	Other		
2	A book/ A monograph	28	3
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	12	1
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	2	1
2.3	Other	14	1
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	58	28
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	33	18
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	24	10
3.3	Other	1	
4	Abstracts of the Published Scientific Seminars/Workshops	62	40
4.1	Conference abstracts indexed by Web of Science or Scopus	14	20
4.2	Conference abstracts indexed by Google Scholar	42	17
4.3	Other	6	3

5	Inventions and Patents	2	
5.1	1. The method of obtaining thin films by means of magnetron sputtering with ultraviolet beam №AP 16309 2. The method of fabrication of photoreceivers working in ultraviolet range, №AP 16340	2	
6	Participation in National and International Scientific-Research Grant Projects	98	42
7	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	25	9
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	181	33
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	96	34
10	Additional Teaching and Other Activities	205	
10.1	Preparation of a textbook	12	
10.2	Translation of a textbook	3	
10.3	Participation in the professional development activities (training, seminar, workshop etc.)	190	

Faculty of Economics and Business
Scientific Research Activities Performed in 2023

In the reporting period of 2023, the total number of staff employed at the faculty (including academic, scientific, guest) is 423 persons. Among them, there are 105 academics (professor - 17, associate professors - 74, assistant professors - 14, assistants - 0, invited - 305 and scientific staff - 5). All 105 of the academic staff are affiliated. 8 foreign academic/involved staff are involved in teaching.

Table N3

N	Evaluation Criteria of Scientific –Research Activity	Academic staff	Invited staff
1	Article in a Scientific Journal	188	130
1.1	A scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	92	48
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	39	35
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	57	47
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code		
1.5	Other		
2	A book/ A monograph	12	17
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	9	7
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	3	11
2.3	Other		
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	119	105
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	20	26
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	76	35
3.3	Other	23	44
4	Abstracts of the Published Scientific Seminars/Workshops	44	14
4.1	Conference abstracts indexed by Web of Science or Scopus	18	6

4.2	Conference abstracts indexed by Google Scholar	26	8
4.3	Other		
5	Participation in National and International Scientific-Research Grant Projects	40	53
6	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	48	46
7	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	82	66
8	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	39	39
9	Additional Teaching and Other Activities	89	81
9.1	Preparation of a textbook	16	4
9.2	Translation of a textbook	10	12
9.3	Participation in the professional development activities (training, seminar, workshop etc.)	63	60

Faculty of Psychology and Education Sciences
Scientific Research Activities Performed in 2023

According to the data of 2023, the total number of staff (including academic, scientific, invited) employed at the faculty is 199 persons. Among them, 43 are academic (professors - 9, associate professors - 25, assistant professors - 9, assistants - 0, invited - 152 and scientific staff - 0). The total number of affiliated academic staff is 43. The number of foreign academic/invited staff involved in teaching is 3. The number of foreign academic/invited staff involved in teaching is 1, and 3 foreign academic/scientific/invited staff are involved in research.

Table N4

N	Evaluation Criteria of Scientific –Research Activity	Academic staff	Invited staff
1	Article in a Scientific Journal	36	59
1.1	A scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	23	10
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate		8
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	6	25
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code		15
1.5	Other	7	1
2	A book/ A monograph	3	1
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate		
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	2	1
2.3	Other	1	
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	19	37
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	3	18
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	15	19

3.3	Other	1	
4	Abstracts of the Published Scientific Seminars/Workshops	12	24
4.1	Conference abstracts indexed by Web of Science or Scopus		3
4.2	Conference abstracts indexed by Google Scholar	11	21
4.3	Other	1	
5	Participation in National and International Scientific-Research Grant Projects	15	18
6	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	5	16
7	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	12 (including 3 international conf.)	50
8	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	15	17
9	Additional Teaching and Other Activities	32	18
9.1	Preparation of a textbook	6	11
9.2	Translation of a textbook	1	7
9.3	Participation in the professional development activities (training, seminar, workshop etc.)	25	

Faculty of Humanities
Scientific Research Activities Performed in 2023

According to the data of 2023, the total number of staff employed at the faculty (including academic, scientific, invited) is 487. Among them, there are 180 academics (Professors - 36, Associate Professors - 119, Assistant Professors - 23, Assistants - 2, Invited - 283 and Scientific Staff - 13). The total number of affiliated academic staff is 180. The number of foreign academic/invited staff involved in teaching is 10, and 1 foreign academic/scientific/invited staff is involved in research.

Table N5

N	Evaluation Criteria of Scientific –Research Activity	Academic staff	Invited staff
1	Article in a Scientific Journal	286	160
1.1	A scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	47	27
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	25	7
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	103	47
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	93	44
1.5	Other	18	35
2	A book/ A monograph	49	7
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	6	2
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	43	5
2.3	Other	49	7
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	183	57
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	11	5
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	162	52

3.3	Other	10	
4	Abstracts of the Published Scientific Seminars/Workshops	160	31
4.1	Conference abstracts indexed by Web of Science or Scopus	2	8
4.2	Conference abstracts indexed by Google Scholar	158	23
4.3	Other		
5	Participation in National and International Scientific-Research Grant Projects	107	76
6	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	88	32
7	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	284	160
8	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	125	66
9	Additional Teaching and Other Activities	88	87
9.1	Preparation of a textbook	13	5
9.2	Translation of a textbook	1	2
9.3	Participation in the professional development activities (training, seminar, workshop etc.)	74	80

Faculty of Social and Political Sciences
Scientific Research Activities Performed in 2023

In the reporting period, the total number of staff employed at the faculty (including academic, scientific, invited) is 208 persons. Among them, 68 are academics (professors - 19, associate professors - 39, assistant professors - 10, assistants - 0, invited - 133 and scientific staff - 0). The total number of affiliated academic staff is 64, of which 19 are affiliated professors, 35 are affiliated associate professors, and 10 are affiliated assistant professors. The number of foreign academic/invited staff involved in teaching is 5.

Table N6

N	Evaluation Criteria of Scientific –Research Activity	Academic staff	Invited staff
1	Article in a Scientific Journal	49	23
1.1	A scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (<u>European Reference Index of the Humanities</u>)	9	
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	15	6
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	25	17
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code		
1.5	Other		
2	A book/ A monograph	2	2
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate		
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	2	2
2.3	Other		
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	1	
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus		
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	1	

3.3	Other		
4	Abstracts of the Published Scientific Seminars/Workshops	23	5
4.1	Conference abstracts indexed by Web of Science or Scopus		
4.2	Conference abstracts indexed by Google Scholar	23	5
4.3	Other		
5	Participation in National and International Scientific-Research Grant Projects	4	2
6	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)		7
7	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	16	11
8	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	20	2
9	Additional Teaching and Other Activities	3	
9.1	Preparation of a textbook	3	
9.2	Translation of a textbook		
9.3	Participation in the professional development activities (training, seminar, workshop etc.)		

Faculty of Law
Scientific Research Activities Performed in 2023

During the reporting period, the total number of staff employed at the faculty (including academic, scientific, invited) is 270. Among them, there are 80 academics (professors - 24, associate professors - 33, assistant professors - 10, assistants - 13, invited - 180 and scientific staff - 0). The total number of affiliated academic staff is 73, of which 20 are affiliated professors, 30 are affiliated associate professors, 10 are affiliated assistant professors, and 13 are affiliated assistants. The number of foreign academic/invited staff involved in teaching is 10.

Table N7

N	Evaluation Criteria of Scientific –Research Activity	Academic staff	Invited staff
1	Article in a Scientific Journal	27	48
1.1	A scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	1	3
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	3	2
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	19	31
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code		2
1.5	Other	4	10
2	A book/ A monograph	9	10
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	1	1
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	6	5
2.3	Other	2	4
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	5	11
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	2	

3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	3	4
3.3	Other		7
4	Abstracts of the Published Scientific Seminars/Workshops		6
4.1	Conference abstracts indexed by Web of Science or Scopus		
4.2	Conference abstracts indexed by Google Scholar		5
4.3	Other		1
5	Participation in National and International Scientific-Research Grant Projects	5	6
6	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	3	16
7	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	13	13
8	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	5	
9	Additional Teaching and Other Activities	64	59
9.1	Preparation of a textbook	3	1
9.2	Translation of a textbook	1	2
9.3	Participation in the professional development activities (training, seminar, workshop etc.)	60	56

Faculty of Medicine
Scientific Research Activities Performed in 2023

According to the data of 2023, the total number of staff (including academic, scientific, guest) employed at the faculty is 386. Among them, 109 are academics (professors - 28, associate professors - 54, assistant professors - 27, assistants - 0, invited - 274 and scientific staff - 0). The total number of affiliated academic staff is 109. 3 foreign academic/invited staff are involved in teaching.

Table N8

N	Evaluation Criteria of Scientific –Research Activity	Academic staff	Invited staff
1	Article in a Scientific Journal	163	
1.1	A scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	32	
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	46	
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	63	
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	5	
1.5	Other	17	
2	A book/ A monograph	9	
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	5	
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	0	
2.3	Other	4	
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	35	
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	13	
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	22	
3.3	Other		
4	Abstracts of the Published Scientific Seminars/Workshops	39	

4.1	Conference abstracts indexed by Web of Science or Scopus	13	
4.2	Conference abstracts indexed by Google Scholar	24	
4.3	Other	2	
5	Inventions and Patents	4	
5.1	1. Device for Creating Pulsating Blood Flow, № U 2023 2149 Y 2. Preventive composition for removing lead from the body and its exposition effects, № U 2020 2032 Y 3. Portable device for management of artificial blood flow, № U 2022 2139 Y 4. Apparatus for Artificial Blood Circulation, № U 1888	4	
6	Participation in National and International Scientific-Research Grant Projects	65	
7	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	22	
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	98	
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	93	
10	Additional Teaching and Other Activities	141	
10.1	Preparation of a textbook	10	
10.2	Translation of a textbook	2	
10.3	Participation in the professional development activities (training, seminar, workshop etc.)	129	

Scientific-research activities of the independent scientific-research institutes in 2023

According to the data of December 30, 2023, 830 people are employed as researchers and carry out scientific activity in the independent scientific-research institutes of TSU. Among them, there are 217 chief scientists, 287 senior scientists, and 326 scientists.

As charts N6 and N7 show, during the reporting period, employees of scientific research institutes created 718 publications, including:

1. Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities) - 129
2. A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate - 133
3. Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar - 206
4. Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code - 235
5. Other - 15

Chart N6

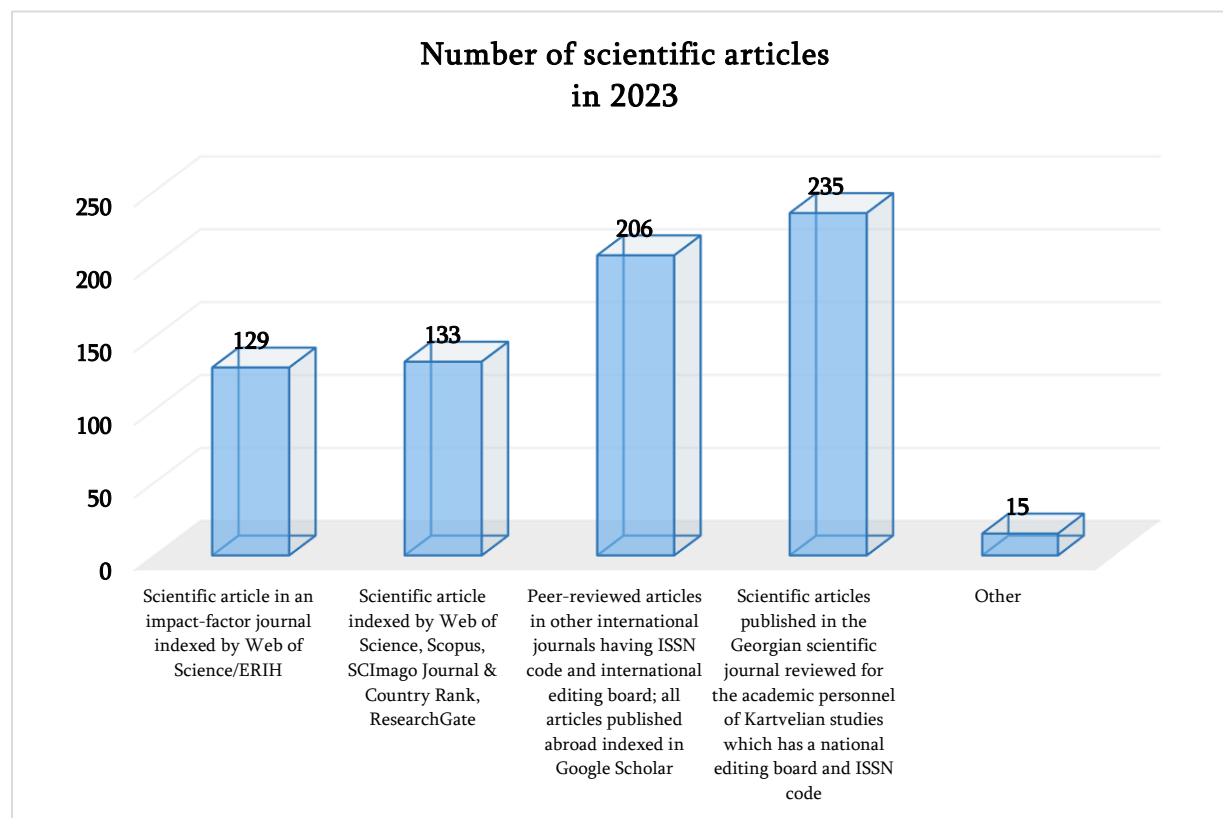
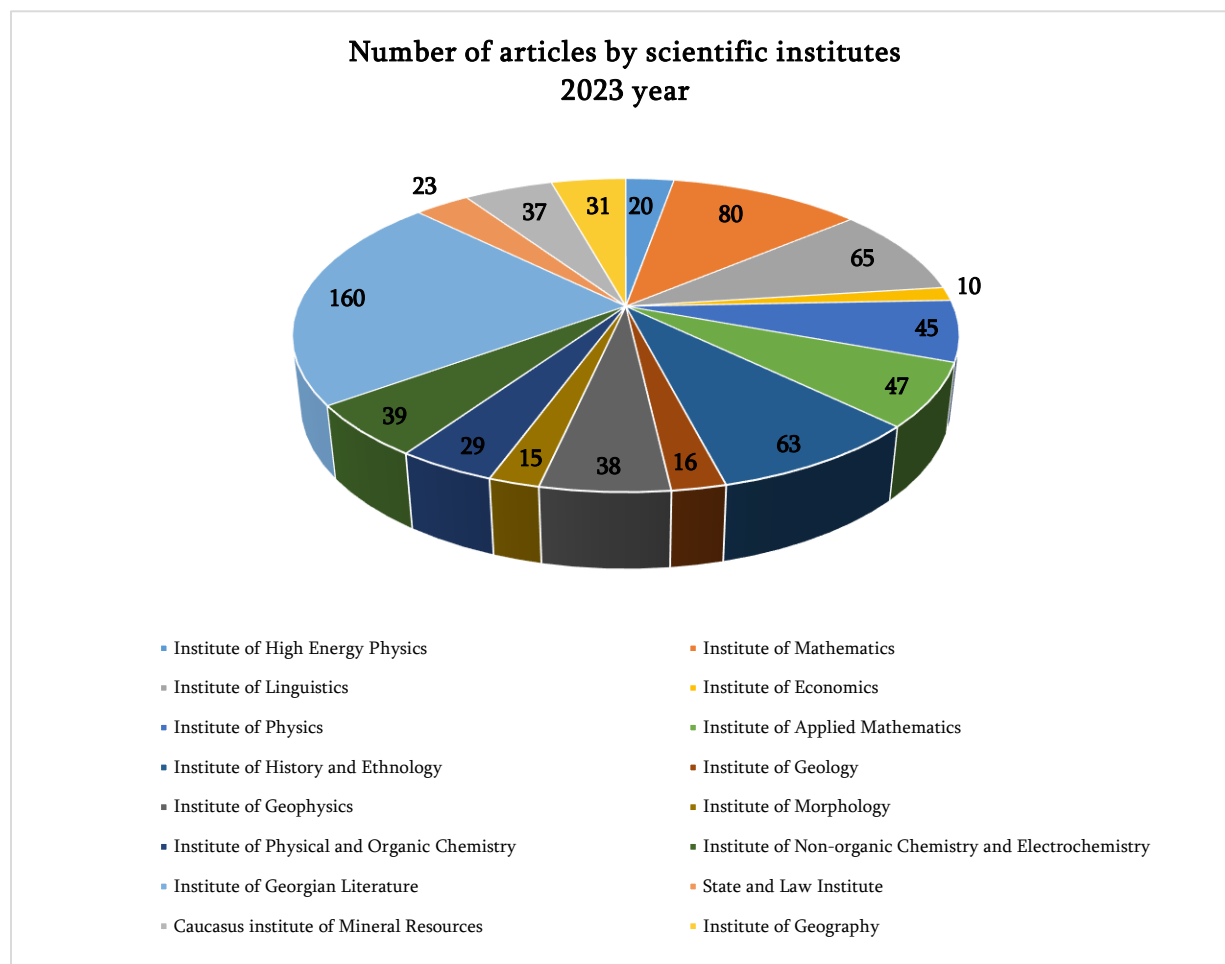


Chart N7



69 works were published in the book/monograph category. The mentioned category includes the following subcategories:

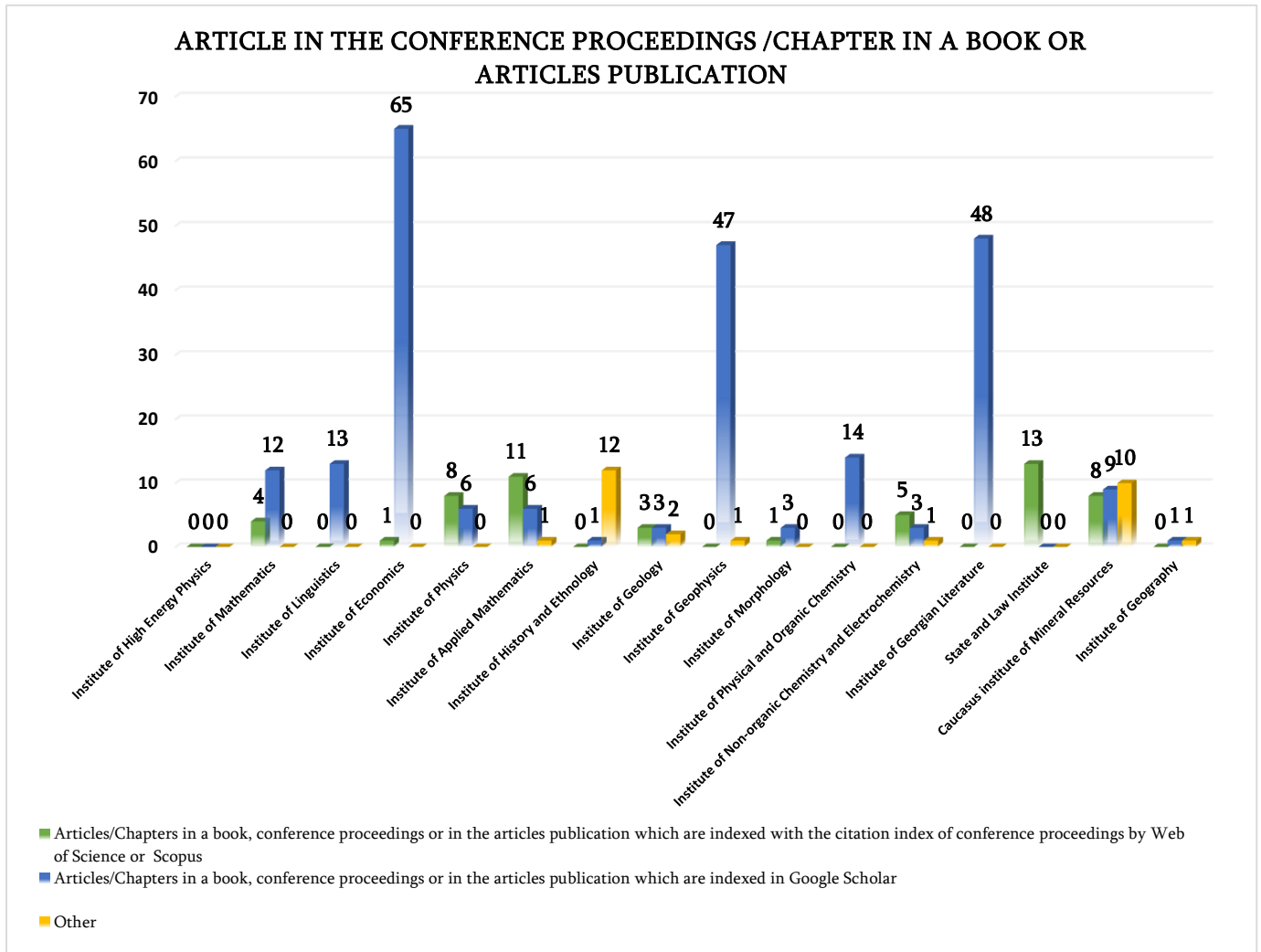
1. International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate- 11 monographs were prepared and published
2. Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research) - 43 monographs
3. Other - 15 monographs.

Chart N8 shows the scientific activity according to the number of the following assessment criterion - Article in the Conference Proceedings /Chapter in a Book or Articles Publication. A total of 319 articles have been developed, including:

1. Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus - 54
2. Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar - 231

3. Other - 34

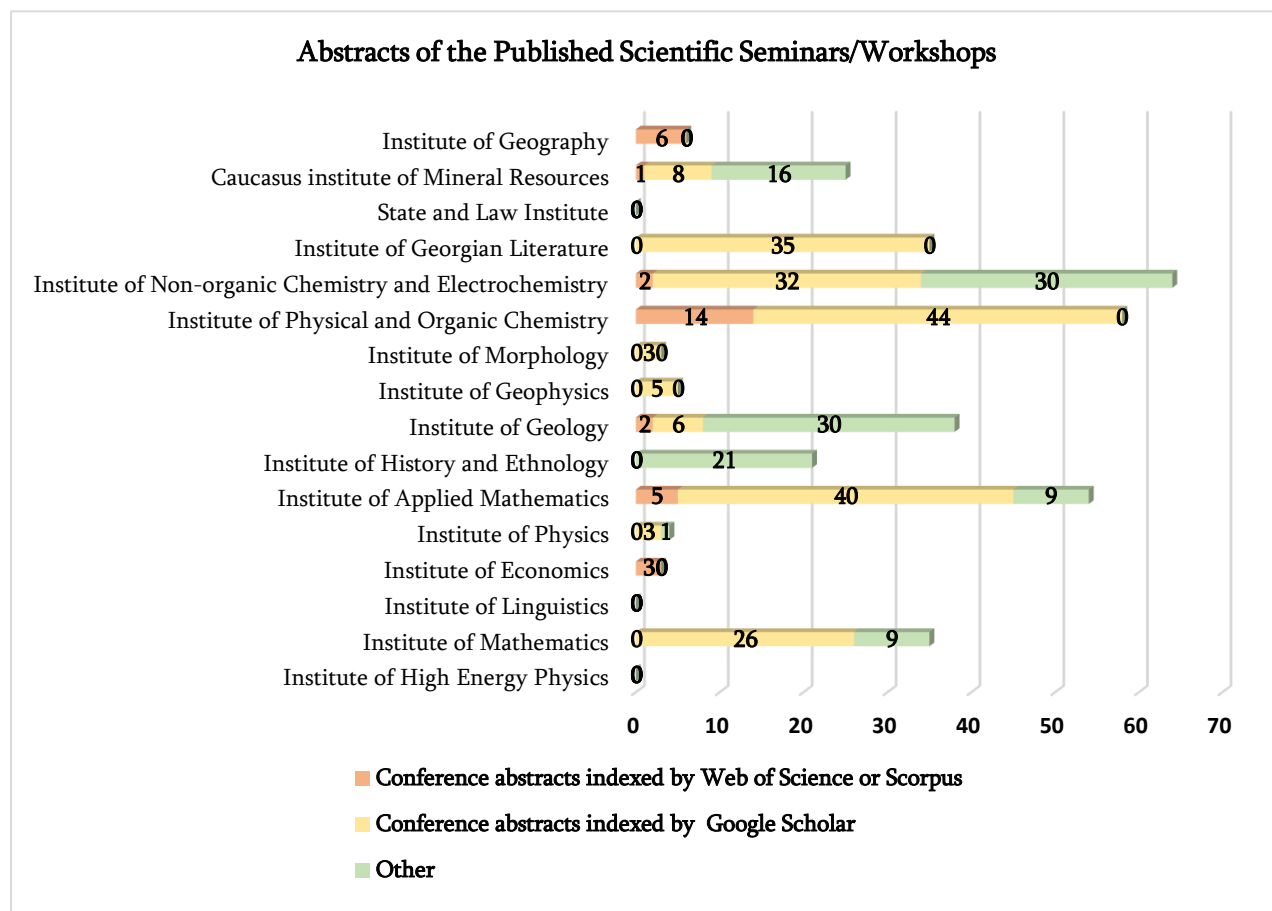
Chart N8



In the category of Abstracts of the Published Scientific Seminars/Workshops, 351 conference abstracts were developed in the reporting period of 2023 (see chart N9). Namely:

1. Conference abstracts indexed by Web of Science or Scopus - 33
2. Conference abstracts indexed by Google Scholar - 202
3. Other – 116

Chart N9

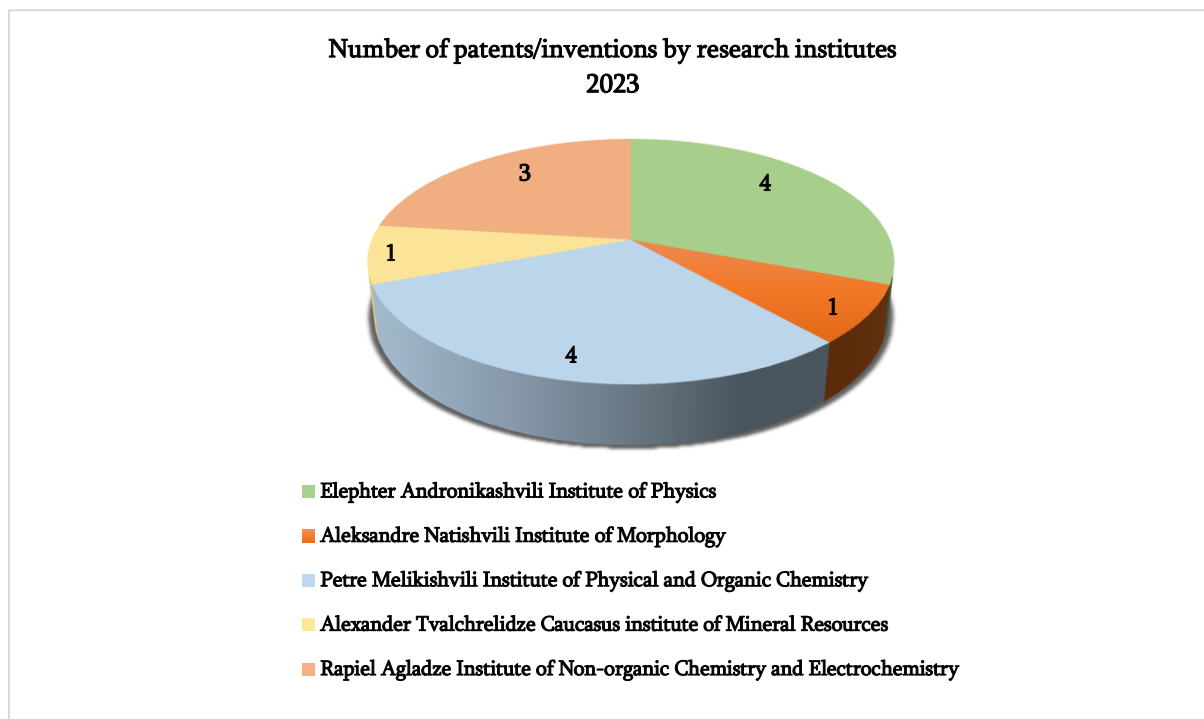


In the category of Inventions/Patents, 13 patents were created by 5 scientific-research institutes in 2023 (see chart N10):

1. A way of maintaining *Spirulina platensis* resistance and stimulating growth using Cs137 gamma radiation - U 2023 2147 Y
2. *Spirulina platensis* resistance in the temperature range from -180 °C to +100 °C - case number 16302/2
3. Atomization quality control method and device for its implementation - Patent ID: P 2023 7526 B Invention
4. Method of vaporization of current conductive materials for obtaining nanosized particles - GE P 2023 7564 B
5. Device for Creating Pulsating Blood Flow, № U 2023 2149 Y
6. Method for producing manganese sulfate monohydrate, G.Tsurtsunia, T. Lezhava, J.Shengelia, N.Koiava, D. Gogoli, L. Beriashvili EP 3967660B1 (TSU is one of the applicants in the patent)
7. Exhaust gas purification catalyst from internal combustion engines, GE U 2022 2134 Y
8. S. Khutsishvili and others Modified nutrient medium for cultivation of potato plants based on Murashige-Skoog agar nutrient medium method for growing potato plants under aseptic conditions using this nutrient medium, RU 2794777 C1
9. A mixture of raw materials to obtain a porous thermal insulation material, AU 2021 15787

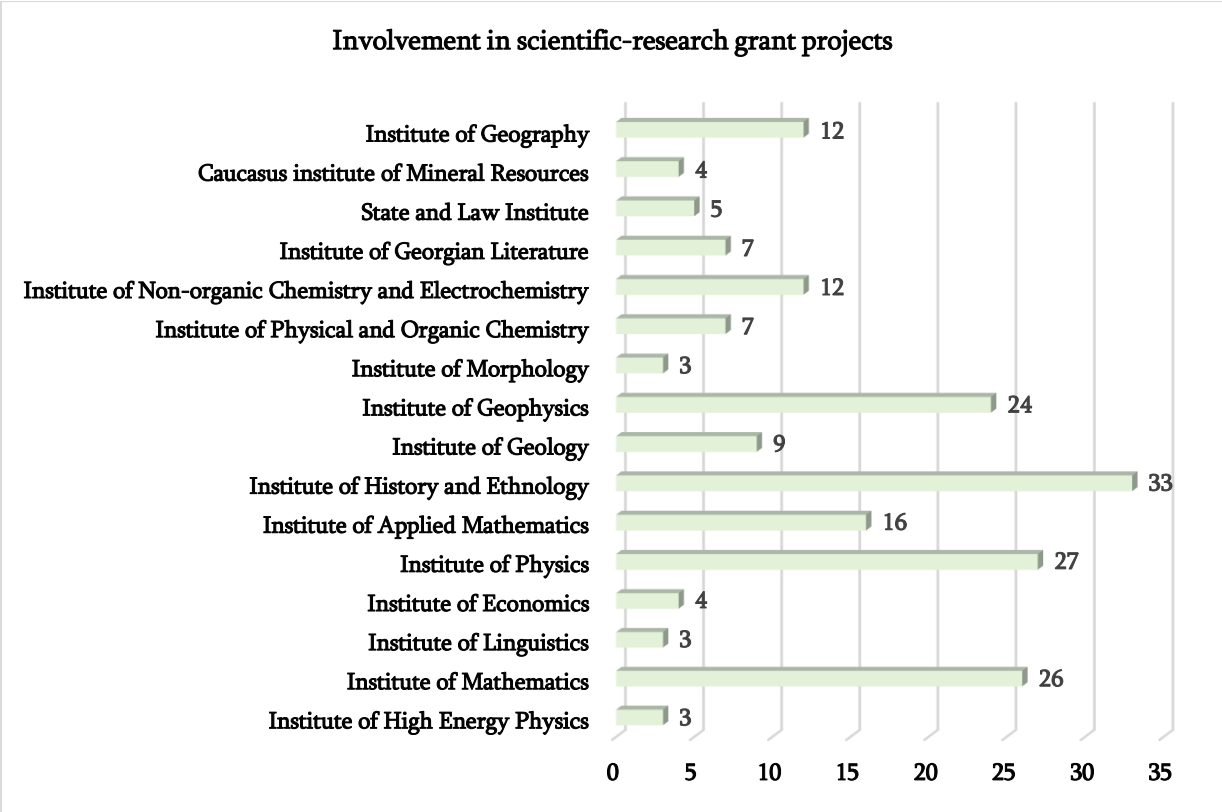
10. Additive of chelated trace elements in poultry feed-U 2023 2158 Y
11. A method of obtaining a bactericidal zeolite filler-U 2023 2156 Y
12. Complex, prolong-acting zeolitic fertilizer obtained by nanotechnology-U 2022 2107 Y
13. Method of obtaining with bactericidal zeolite filled paper- AU 2024 16482

Chart N10



As for the participation in national and international scientific-research grant projects, 195 persons from the independent scientific-research institutes were involved in 2023. Chart N11 shows involvement in scientific-research grant projects by institutions.

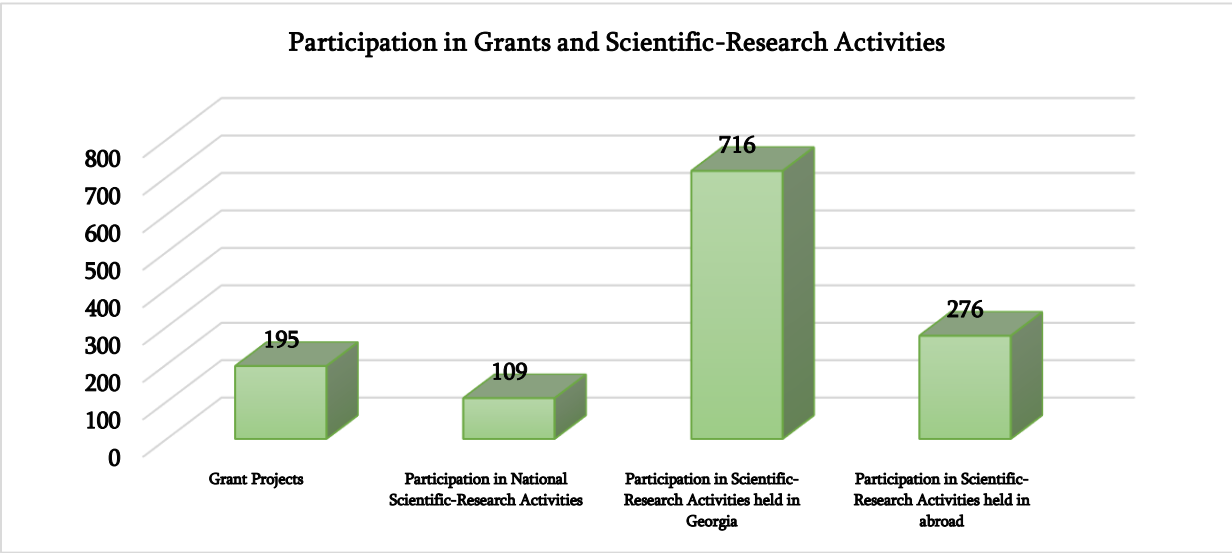
Chart N11



In the reporting period, 109 people from 16 institutions participated in the national scientific-research event (conference, symposium, seminar, workshop, etc.).

The number of participants in the scientific-research event held in Georgia (conference, symposium, seminar, workshop, etc.) is 716, and the number of participants in the scientific-research event held abroad (conference, symposium, seminar, workshop, etc.) is 276 (see chart N12).

Chart N12



Conclusions and recommendations

The study of the annual reports of independent scientific-research institutes and self-assessment questionnaires of academic employees suggest that the scientific institutes make a significant contribution to increasing the international recognition and ranking of the university. The participation in international scientific collaborations, international scientific events (conferences, seminars, symposia, workshops, etc.) and experiments, and articles published in scientific journals with a high impact factor perfectly reflect on this contribution. During the reporting period, the majority of academic personnel were actively involved in scientific-research grant projects. Throughout 2023, they created 13 patents, including the international ones.

The following are the strong points identified during the evaluation of the scientific activities of the TSU staff:

- High scholarly performance of the scientific staff, which is confirmed by the number of articles published in the WEB of Science journals and SCOPUS;
- The participation rate of the personnel in the scientific forums, local and international conferences, seminars and symposia;
- High rate of staff participation in international scientific-research grant projects;
- Rate of staff participation in international scientific collaborations and experiments.

Recommendations for future development

Based on the evaluation results, the Quality Assurance Service identified several priority areas and developed certain recommendations for further improvement. In particular, in order to ensure further scientific research development, TSU independent scientific-research institutes need support in the following:

- Increasing the financial support for the scientific research;
- Creating an independent budget fund for scientific research specifically;
- Streamlining procurement processes at the legislative level;
- Strengthening the support of scientific personnel for patent development;
- Increasing participation in grant projects and for this purpose, conducting trainings for the grant project preparation;
- Ensuring continuous improvement of the university infrastructure to facilitate educational and research processes.

**Quantitative Data According to Scientific Institutes
2023 Year**

Table N9

N	Evaluation criteria for the scientific-research activities	Institute of High Energy Physics	Institute of Mathematics	Institute of Linguistics	Institute of Economics	Institute of Physics	Inst. of Applied Mathematics	Inst. of History and Ethnology	Inst. of Geology	Institute of Geophysics	Institute of Morphology	Inst. of Physical and Organic	Inst. of Non-org. Chemistry	Inst. of Georgian Literature	State and Law Institute	Caucasus institute of Mineral	Institute of Geography	Sum
1	Article in a Scientific Journal	20	80	65	10	45	47	63	16	38	15	29	39	160	23	37	31	718
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	10	39		2	22	18	9	3		1	6	5	9		4	1	129
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	10	30		7	14	13	2	3	16	2	9	13	1		9	4	133
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar		3	8	1	9	16	10	10	22	12	14	19	19	23	20	20	206
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code			57				41						131			6	235
1.5	Other		8					1					2			4		15
2	A book/ A monograph	1	1	12		3	6	13	2	3	1	2		11	6	7	1	69
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate					3	5					2		1				11
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	1		8			1	13		2	1			10	3	3	1	43
2.3	Other		1	4					2	1					3	4		15
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication		16	13	66	14	18	13	8	48	4	14	9	48	13	33	2	319
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus		4		1	8	11		3		1		5		13	8		54
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar		12	13	65	6	6	1	3	47	3	14	3	48		9	1	231
3.3	Other						1	12	2	1			1			16	1	34
4	Abstracts of the Published Scientific Seminars/Workshops		35		3	4	54	21	38	5	3	58	64	35		25	6	351
4.1	Conference abstracts indexed by Web of Science or Scopus				3		5		2			14	2			1	6	33
4.2	Conference abstracts indexed by Google Scholar		26			3	40		6	5	3	44	32	35		8		202
4.3	Other		9			1	9	21	30				30			16		116
5	Inventions and Patents					4					1	4	3			1		13
6	Participation in National and International Scientific-Research Grant Projects	3	26	3	4	27	16	33	9	24	3	7	12	7	5	4	12	195
7	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)			24	10		12	28		2	3		3		10	12	5	109
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	6	67	160	42	9	89	31	59	52	2	6	6	87	13	71	16	716
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	18	27	31	2	10	24	21	34	25	5	15	11	16	4	21	12	276

Nodar Amaglobeli Institute of High Energy Physics
Scientific Research Activities Performed in 2023

According to the data of December 30, 2023, a total of 16 people are employed as researchers and carry out scientific activities at the Nodar Amaglobeli Institute of High Energy Physics. Among them, chief scientists are 10, senior scientists - 5, scientists - 1.

Table N10

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	20
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	10
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	10
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	
1.5	Other	
2	A book/ A monograph	1
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	1
2.3	Other	
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	
3.3	Other	

4	Abstracts of the Published Scientific Seminars/Workshops	
4.1	Conference abstracts indexed by Web of Science or Scopus	
4.2	Conference abstracts indexed by Google Scholar	
4.3	Other	
5	Inventions and Patents	
5.1		
6	Participation in National and International Scientific-Research Grant Projects	3
6.1	Participation in National and International Scientific-Research Grant Projects	3
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	6¹
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	6
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	18
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	18

¹ In the 8th and 9th rows, the number of participation is counted.

Andrea Razmadze Institute of Mathematics
Scientific Research Activities Performed in 2023

According to the data of December 30, 2023, a total of 58 people are employed as researchers and carry out scientific activities at the Andrea Razmadze Institute of Mathematics. Among them, chief scientists are 30, senior scientists - 21, scientists - 7.

Table N11

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	80
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	39
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	30
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	3
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	
1.5	Other	8
2	A book/ A monograph	1
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	
2.3	Other	1
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	16
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	4
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	12
3.3	Other	

4	Abstracts of the Published Scientific Seminars/Workshops	35
4.1	Conference abstracts indexed by Web of Science or Scopus	
4.2	Conference abstracts indexed by Google Scholar	26
4.3	Other	9
5	Inventions and Patents	
5.1		
6	Participation in National and International Scientific-Research Grant Projects	26
6.1	Participation in National and International Scientific-Research Grant Projects	26
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	67²
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	67
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	27
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	27

² In the 8th and 9th rows, the number of participation is counted.

Arnold Chikobava Institute of Linguistics
Scientific Research Activities Performed in 2023

According to the data of December 30, 2023, 83 people are employed as scientists and carry out relevant research activities in the Arnold Chikobava Institute of Linguistics. Among them, chief scientists are 14, senior scientists - 25, scientists - 44.

Table N12

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	65
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	8
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	57
1.5	Other	
2	A book/ A monograph	12
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	8
2.3	Other	4
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	13
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	13
3.3	Other	

4	Abstracts of the Published Scientific Seminars/Workshops	
4.1	Conference abstracts indexed by Web of Science or Scopus	
4.2	Conference abstracts indexed by Google Scholar	
4.3	Other	
5	Inventions and Patents	
5.1		
6	Participation in National and International Scientific-Research Grant Projects	3
6.1	Participation in National and International Scientific-Research Grant Projects	3
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	24³
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	24
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	160
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	160
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	31
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	31

³ In the 7th, 8th and 9th rows, the number of participation is counted.

Paata Gugushvili Institute of Economics
Scientific Research Activities Performed in 2023

According to the data of December 30, 2023, a total of 29 people are employed as researchers and carry out scientific activities at the TSU Paata Gugushvili Institute of Economics. Among them, chief scientists are 10, senior scientists - 10, scientists - 9.

Table N13

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	10
1.1	Scientific article in an impact-factor journal indexed by Web of Science	2
1.2	A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	7
1.3	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	1
1.4	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	
1.5	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	
1.6	Other	
2	A book/ A monograph	
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	
2.3	Other	
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	66
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	1
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	65
3.3	Other	

4	Abstracts of the Published Scientific Seminars/Workshops	3
4.1	Conference abstracts indexed by Web of Science or Scopus	3
4.2	Conference abstracts indexed by Google Scholar	
4.3	Other	
5	Inventions and Patents	
5.1		
6	Participation in National and International Scientific-Research Grant Projects	4
6.1	Participation in National and International Scientific-Research Grant Projects	4
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	10
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	10
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	42⁴
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	42
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	2
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	2

⁴ In the 8th row, the number of participation is counted.

Elefther Andronikashvili Institute of Physics
Scientific Research Activities Performed in 2023

In the reporting period, there are 87 employees in the Elefther Andronikashvili Physics Institute of TSU. Among them 3 are real members of the Academy. Chief scientists are 16, senior scientists - 44, scientists - 27. Employees of the institute have completed 155 scientific works during the reporting period. (111 of them are works of CERN⁵ employees).

Table N14

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	45
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	22
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	14
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	9
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	
1.5	Other	
2	A book/ A monograph	3
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	3
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	
2.3	Other	
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	14
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	8

⁵ Articles published in 2023 [1–111] are posted on the International High Energy Physics site:

<https://inspirehep.net/literature?sort=mostrecent&size=25&page=1&q=f%20a%20jelava%20and%20gongadze%20and%20skhadadze%20and%20date%202023&ui-citation-summary=true>

3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	6
3.3	Other	
4	Abstracts of the Published Scientific Seminars/Workshops	4
4.1	Conference abstracts indexed by Web of Science or Scopus	
4.2	Conference abstracts indexed by Google Scholar	3
4.3	Other	1
5	Inventions and Patents	4
5.1	1. A way of maintaining Spirulina platensis resistance and stimulating growth using Cs137 gamma radiation - U 2023 2147 Y 2. Spirulina platensis resistance in the temperature range from -180 °C to +100 °C - case number 16302/2 3. Atomization quality control method and device for its implementation - Patent ID: P 2023 7526 B Invention 4. Method of vaporization of current conductive materials for obtaining nanosized particles - GE P 2023 7564 B	4
6	Participation in National and International Scientific-Research Grant Projects	27
6.1	Participation in National and International Scientific-Research Grant Projects	27
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	9⁶
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	9
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	10
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	10

⁶ In the 8th and 9th rows, the number of participation is counted.

Ilia Vekua Institute of Applied Mathematics
Scientific Research Activities Performed in 2023

According to the data of December 30, 2023, 41 persons are employed as researchers and carry out scientific activities in the Ilia Vekua independent scientific-research institute of applied mathematics. Among them, chief scientists are 9, senior scientists - 15, scientists - 17.

Table N15

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	47
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	18
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	13
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	16
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	
1.5	Other	
2	A book/ A monograph	6
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	5
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	1
2.3	Other	
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	18
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	11
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	6
3.3	Other	1
4	Abstracts of the Published Scientific Seminars/Workshops	54

4.1	Conference abstracts indexed by Web of Science or Scopus	5
4.2	Conference abstracts indexed by Google Scholar	40
4.3	Other	9
5	Inventions and Patents	
5.1		
6	Participation in National and International Scientific-Research Grant Projects	16
6.1	Participation in National and International Scientific-Research Grant Projects	16
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	12⁷
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	12
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	89
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	89
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	24
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	24

⁷ In the 7th, 8th and 9th rows, the number of participation is counted.

Ivane Javakhishvili Institute of History and Ethnology
Scientific Research Activities Performed in 2023

According to the data of December 30, 2023, 44 persons are employed as researchers and carry out scientific activities in the independent scientific-research institute of history and ethnology. Among them, chief scientists are 17, senior scientists - 14, scientists - 13.

Table N16

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	63
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	9
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	2
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	10
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	41
1.5	Other	1
2	A book/ A monograph	13
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	13
2.3	Other	
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	13
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	1
3.3	Other	12

4	Abstracts of the Published Scientific Seminars/Workshops	21
4.1	Conference abstracts indexed by Web of Science or Scopus	
4.2	Conference abstracts indexed by Google Scholar	
4.3	Other	21
5	Inventions and Patents	
5.1		
6	Participation in National and International Scientific-Research Grant Projects	33
6.1	Participation in National and International Scientific-Research Grant Projects	33
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	28⁸
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	28
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	31
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	31
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	21
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	21

⁸ In the 7th, 8th and 9th rows, the number of participation is counted.

Aleksandre Janelidze Institute of Geology
Scientific Research Activities Performed in 2023

According to the data of December 30, 2023, a total of 37 people are employed as researchers and carry out scientific activities at the Aleksandre Janelidze Institute of Geology. Among them, chief scientists are 9, senior scientists - 16, scientists - 12.

Table N17

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	16
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	3
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	3
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	10
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	
1.5	Other	
2	A book/ A monograph	2
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	
2.3	Other	2
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	8
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	3
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	3
3.3	Other	2

4	Abstracts of the Published Scientific Seminars/Workshops	38
4.1	Conference abstracts indexed by Web of Science or Scopus	2
4.2	Conference abstracts indexed by Google Scholar	6
4.3	Other	30
5	Inventions and Patents	
5.1		
6	Participation in National and International Scientific-Research Grant Projects	9
6.1	Participation in National and International Scientific-Research Grant Projects	9
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	59⁹
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	59
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	34
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	34

⁹ In the 8th and 9th rows, the number of participation is counted.

Mikheil Nodia Institute of Geophysics
Scientific Research Activities Performed in 2023

According to the data of December 30, 2023, a total of 65 people are employed as researchers and carry out scientific activities at the Mikheil Nodia Institute of Geophysics. Among them, chief scientists are 21, senior scientists - 18, scientists - 26.

Table N18

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	38
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	16
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	22
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	
1.5	Other	
2	A book/ A monograph	3
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	2
2.3	Other	1
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	48
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	47
3.3	Other	1

4	Abstracts of the Published Scientific Seminars/Workshops	5
4.1	Conference abstracts indexed by Web of Science or Scopus	
4.2	Conference abstracts indexed by Google Scholar	5
4.3	Other	
5	Inventions and Patents	
5.1		
6	Participation in National and International Scientific-Research Grant Projects	24
6.1	Participation in National and International Scientific-Research Grant Projects	24
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	2
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	2
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	52¹⁰
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	52
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	25
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	25

¹⁰ In the 8th and 9th rows, the number of participation is counted.

Aleksandre Natishvili Institute of Morphology
Scientific Research Activities Performed in 2023

According to the data of December 30, 2023, a total of 32 people are employed as researchers and carry out scientific activities at the Aleksandre Natishvili Institute of Morphology. Among them, chief scientists are 11, senior scientists - 9, scientists - 12.

Table N19

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	15
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	1
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	2
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	12
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	
1.5	Other	
2	A book/ A monograph	1
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	1
2.3	Other	
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	4
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	1
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	3
3.3	Other	

4	Abstracts of the Published Scientific Seminars/Workshops	3
4.1	Conference abstracts indexed by Web of Science or Scopus	
4.2	Conference abstracts indexed by Google Scholar	3
4.3	Other	
5	Inventions and Patents	1
5.1	Device for Creating Pulsating Blood Flow, № U 2023 2149 Y	1
6	Participation in National and International Scientific-Research Grant Projects	3
6.1	Participation in National and International Scientific-Research Grant Projects	3
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	3¹¹
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	3
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	2
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	2
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	5
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	5

¹¹ In the 7th, 8th and 9th rows, the number of participation is counted.

Petre Melikishvili Institute of Physical and Organic Chemistry
Scientific Research Activities Performed in 2023

According to the data of December 30, 2023, 75 scientists are employed in the Scientific-Research Institute of Physical and Organic Chemistry of TSU. Among them, 16 are chief scientists, 21 are senior scientists, 38 are scientists.

Table N20

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	29
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	6
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	9
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	14
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	
1.5	Other	
2	A book/ A monograph	2
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	2
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	
2.3	Other	
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	14
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	14
3.3	Other	

4	Abstracts of the Published Scientific Seminars/Workshops	58
4.1	Conference abstracts indexed by Web of Science or Scopus	14
4.2	Conference abstracts indexed by Google Scholar	44
4.3	Other	
5	Inventions and Patents	4
5.1	1. Additive of chelated trace elements in poultry feed-U 2023 2158 Y 2. A method of obtaining a bactericidal zeolite filler-U 2023 2156 Y 3. Complex, prolong-acting zeolitic fertilizer obtained by nanotechnology-U 2022 2107 Y 4. Method of obtaining with bactericidal zeolite filled paper- AU 2024 16482	4
6	Participation in National and International Scientific-Research Grant Projects	7
6.1	Participation in National and International Scientific-Research Grant Projects	7
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	6¹²
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	6
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	15
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	15

¹² In the 8th and 9th rows, the number of events/activities are counted.

Rapiel Agladze Institute of Non-organic Chemistry and Electrochemistry
Research Activities Performed in 2023

According to the data of December 30, 2023, 87 people are employed in the Rapiel Agladze Institute of Non-organic Chemistry and Electrochemistry, including 15 chief scientists, 36 senior scientists, 36 scientists.

Table N21

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	39
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	5
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	13
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	19
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	
1.5	Other	2
2	A book/ A monograph	
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	
2.3	Other	
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	9
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	5
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	3
3.3	Other	1

4	Abstracts of the Published Scientific Seminars/Workshops	64
4.1	Conference abstracts indexed by Web of Science or Scopus	2
4.2	Conference abstracts indexed by Google Scholar	32
4.3	Other	30
5	Inventions and Patents	3
5.1	1. Method for producing manganese sulfate monohydrate, G.Tsurtsumia, T. Lezhava, J.Shengelia, N.Koiava, D. Gogoli, L. Beriashvili EP 3967660B1 (TSU is one of the applicants in the patent) 2. Exhaust gas purification catalyst from internal combustion engines, GE U 2022 2134 Y 3. S. Khutsishvili and others Modified nutrient medium for cultivation of potato plants based on Murashige-Skoog agar nutrient medium method for growing potato plants under aseptic conditions using this nutrient medium, RU 2794777 C1	3
6	Participation in National and International Scientific-Research Grant Projects	12
6.1	Participation in National and International Scientific-Research Grant Projects	12 (including the Institute's project - 5, employees participate in a total of 12 projects)
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	3¹³
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	3
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	6
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	6
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	11
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	11

¹³ In the 7th, 8th and 9th rows, the number of participation is counted.

Shota Rustaveli Institute of Georgian Literature
Scientific Research Activities Performed in 2023

According to the data of December 30, 2023, a total of 69 people are employed as researchers and carry out scientific activities at the Shota Rustaveli Institute of Georgian Literature. Among them, chief scientists are 16, senior scientists - 20, scientists - 33.

Table N22

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	160
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	9
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	1
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	19
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	131
1.5	Other	
2	A book/ A monograph	11
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	1
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	10
2.3	Other	
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	48
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	48

3.3	Other	
4	Abstracts of the Published Scientific Seminars/Workshops	35
4.1	Conference abstracts indexed by Web of Science or Scopus	
4.2	Conference abstracts indexed by Google Scholar	35
4.3	Other	
5	Inventions and Patents	
5.1		
6	Participation in National and International Scientific-Research Grant Projects	7
6.1	Participation in National and International Scientific-Research Grant Projects	7
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	87¹⁴
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	87
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	16
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	16

¹⁴ In the 8th and 9th rows, the number of participation is counted.

Tinatín Tsereteli State and Law Institute
Scientific Research Activities Performed in 2023

In the reporting period, a total of 18 people are employed as researchers and carry out scientific activities at the Tinatin Tsereteli State and Law Institute, including, 4 chief scientists, 9 senior scientists and 5 scientists.

Table N23

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	23
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	23
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	
1.5	Other	
2	A book/ A monograph	6
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	3 monographs
2.3	Other	3 books
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	13
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	13
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	
3.3	Other	

4	Abstracts of the Published Scientific Seminars/Workshops	
4.1	Conference abstracts indexed by Web of Science or Scopus	
4.2	Conference abstracts indexed by Google Scholar	
4.3	Other	
5	Inventions and Patents	
5.1		
6	Participation in National and International Scientific-Research Grant Projects	5
6.1	Participation in National and International Scientific-Research Grant Projects	5
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	10¹⁵
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	10
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	13
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	Symposium - 3 Conference - 10
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	4
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	Conference - 4

¹⁵ In the 7th, 8th and 9th rows, the number of participation is counted.

Alexander Tvalchrelidze Caucasus institute of Mineral Resources
Scientific Research Activities Performed in 2023

In the reporting period, a total of 55 people are employed as researchers and carry out scientific activities at the Alexander Tvalchrelidze Caucasus institute of Mineral Resources, including, 12 chief scientists, 15 senior scientists and 28 scientists.

Table N24

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	37
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	4
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	9
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	20
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	
1.5	Other	4
2	A book/ A monograph	7
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	3
2.3	Other	4
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	33
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	8
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	9
3.3	Other	16

4	Abstracts of the Published Scientific Seminars/Workshops	25
4.1	Conference abstracts indexed by Web of Science or Scopus	1
4.2	Conference abstracts indexed by Google Scholar	8
4.3	Other	16
5	Inventions and Patents	1
5.1	A mixture of raw materials to obtain a porous thermal insulation material, AU 2021 15787	1
6	Participation in National and International Scientific-Research Grant Projects	4
6.1	Participation in National and International Scientific-Research Grant Projects	4
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	12
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	12
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	71¹⁶
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	71
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	21
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	21

¹⁶ In the 8th and 9th rows, the number of participation is counted.

Vakhushti Bagrationi Institute of Geography
Scientific Research Activities Performed in 2023

According to the data of December 30, 2023, a total of 34 people are employed as researchers and carry out scientific activities at the Vakhushti Bagrationi Institute of Geography. Among them, chief scientists are 7, senior scientists - 9, scientists - 18.

Table N25

N	Evaluation criteria for the scientific-research activities	Quantity
1	Article in a Scientific Journal	31
1.1	Scientific article in an impact-factor journal indexed by Web of Science; A scientific article published in a journal acknowledged by ERIH (European Reference Index of the Humanities)	1
1.2	A scientific article indexed by Web of Science, Scopus, SCImago Journal & Country Rank, ResearchGate	4
1.3	Peer-reviewed articles in other international journals having ISSN code and international editing board, which is spread internationally and is open for international contribution; all articles published abroad indexed in Google Scholar	20
1.4	Scientific articles published in the Georgian scientific journal reviewed for the academic personnel of Kartvelian studies which has a national editing board and ISSN code	6
1.5	Other	
2	A book/ A monograph	1
2.1	International peer-reviewed scientific monograph in the foreign language (among them monographs about lexicography, source study, textology and translation research) indexed by Scopus, SCImago Journal & Country Rank, ResearchGate	
2.2	Peer-reviewed monograph in Georgian or in other language (among them monographs about lexicography, source study, textology and translation research)	1
2.3	Other	
3	Article in the Conference Proceedings /Chapter in a Book or Articles Publication	2
3.1	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed with the citation index of conference proceedings by Web of Science or Scopus	
3.2	Articles/Chapters in a book, conference proceedings or in the articles publication which are indexed in Google Scholar	1
3.3	Other	1

4	Abstracts of the Published Scientific Seminars/Workshops	6
4.1	Conference abstracts indexed by Web of Science or Scopus	6
4.2	Conference abstracts indexed by Google Scholar	
4.3	Other	
5	Inventions and Patents	
5.1		
6	Participation in National and International Scientific-Research Grant Projects	12
6.1	Participation in National and International Scientific-Research Grant Projects	12
7.	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	5
7.1	Participation in National Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.)	5
8	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	16¹⁷
8.1	Participation in Scientific-Research Activities (Conference, Symposium, Seminar, Workshop etc.) held in Georgia	16
9	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	12
9.1	Participation in Scientific-Research Activities (Conferences, Symposium, Seminar, Workshop, etc.) held in abroad	12

¹⁷ In the 8th and 9th rows, the number of participation is counted.