

**LIST OF SCIENTIFIC AND EDUCATIONAL –METHODICAL WORKS
2013-2023**

ZHUZHUNA PETRIASHVILI

№	Title of scientific works	Printed or hand written or electronic	Journal, book (textbook), publisher, number, year, Copyright certificate number	pages	Co-authors
1	2	3	4	5	6
1	Obtaining and researching wine concentrate	Printed	International Proceedings of the scientific-practical conference 07-08. p. 342-344 Kutaisi - 2013	2	L. Tatishvili N. Tserodze N. Zarqua M. Stefanishvili
2	lecture course in General Chemistry (with presentation material). Auxiliary manual	Printed	PUBLISHING HOUSE "Technical University" Tbilisi - 2013	200	-----
3	GENERAL CHEMISTRY Manual	Printed	PUBLISHING HOUSE „Technical university” Tbilisi – 2013	200	N. Bolkvadze M. tevzadze
4	Synthesis, Structure and Characterization of Coordination Compounds by Virtual Method	Printed	International Scientific - practical conference "Science and Innovative Technologies".p. 289-290. Kutaisi - 2014	4	Ia. mosashvili R. Japaridze
5	Synthesis of new, promising compounds for chemotherapy of onko-diseases	Printed	International Scientific - practical conference- „Functional Innovative technologies for the production of special food products", p. 426. Kutaisi - 2015	5	N. Chigogidze R. Japaridze
6	Searching and synthesis of new chelating derivatives of the thiourea as antitumor remedies.	Printed	3 rd International conference on Pharmaceutical. Searching and synthesis of new chelating derivatives sciences. „Looking Towards the Future, Honoring the past”, Georgia, Pg.102-103. Tbilisi – 2015	2	N. Chigogidze R. Japaridze

7	VIRTUAL WORKS IN GENERAL CHEMISTRY (Auxiliary manual)	Printed	PUBLISHING HOUSE “Technical University”, ISSN 978-9941-20-646-7. Tbilisi-2016	70	D.Songulashvi Ia. mosashvili
8	Lecture course in inorganic chemistry (with demonstration) (Help Guide)	Printed	PUBLISHING HOUSE “Technical University”, Tbilisi-2016	400	-----
9	Antitumor activity of copper Cu ²⁺ complexes with Clotrimazole as a consequence of the formation of a specific pentacoordination structure.	Printed	Georgian Engineering News. No.1(vol.77),.crp. 123-127. Tbilisi-2016	4	N. Chigogidze T. Tsivtsivadze I. Nadiradze R. Kldiashvili R. Japaridze
10	Specific conformational Influence of the structure of clotrimazole biocomplexes Cytotoxic in strengthening the activity	Printed	Engineering News of Georgia, N.2(V.78), p. 112-119. Tbilisi - 2016	7	N. Chigogidze T. Tsivtsivadze I. Nadiradze R. Japaridze
11	Synthesis of acetate complex compounds of 3d-metals - Cu(II), Co(II) and their X-ray fluorescence and X-ray phase study	Printed	Association of Ceramicists of Georgia, magazine "Ceramics". p. 14-20. Tbilisi - 2016	6	R. Japaridze T. Tsivtsivadze N. Foforadze N. Chigogidze R. Kldiashvili
12	Some Biometallic complexes of Antifungal drug- Clotrimazol (Monograph)	Printed	publishing house "Technical University" Tbilisi - 2016	104	T. Tsivtsivadze R. Japaridze N. Chigogidze R. Kldiashvili
13	Synthesis and research of biocomplexes 3d metals- Mn(II), Ni(II), Cu(II), Co(II), Zn with the anti-fungal drug - clotrimazole	Printed	Engineering News of Georgia, NN.1(V.81), p. 142-149. Tbilisi - 2017	7	T. Tsivtsivadze R. Japaridze N. Chigogidze R. Kldiashvili

14	Synthesis and research of some metal (Mn(II), Ni(II), Co(II), Cu(II), Zn) acetate complex compounds	Printed	Technical University of Georgia. 85th Open International Scientific Conference of Students. Tbilisi - 2017	1	T. Tsivtsivadze R. Japaridze S. Кварцхავა A. Makharashvili
15	Some 3-d metal coordination compounds with clotrimazole	Printed	Technical University of Georgia. 85th Open International Scientific Conference of Students. A collection of theses. Page 155 Tbilisi - 2017	1	T. Tsivtsivadze R. Japaridze N. Chigogidze
16	Synthesis of formate complex compounds of 3d metals - Cu(II)-is, Co(II) and their X-ray phase and thermogravimetric study	Printed	Chemical Journal of Georgia. V.17, N1 Tbilisi-2017	4	T. Tsivtsivadze R. Japaridze N. Chigogidze R. Kldiashvili
17	Educational-demonstration film in general chemistry "molecular orbital theory"		National Intellectual Property Center of Georgia patent certificate 7028, 12.07 Tbilisi – 2017	5min	Ia mosashvili
18	Educational-demonstration film in general chemistry "Hydrogen bond and unique properties of water"	video	National Intellectual Property Center of Georgia - patent certificate 7027, 12.07 Tbilisi - 2017	10min.	Ia mosashvili
19	Educational-demonstration film in general chemistry "Ionic bond"	video	National Intellectual Property Center of Georgia - patent certificate 7025, 12.07 Tbilisi - 2017	5min	Ia mosashvili
20	Educational-demonstration film in general chemistry "Metallic bond"	video	National Intellectual Property Center of Georgia - Patent Certificate 7029, Tbilisi-2017	5min	Ia mosashvili
21	Educational-demonstration film in general chemistry "Periodic System of Chemical Elements"	video	National Intellectual Property Center of Georgia - Patent Certificate 7026. Tbilisi-2017	8min	Ia mosashvili
22	Virtual laboratory works in chemistry Category-guide	electronic	National Center of Intellectual Property of Georgia - patent certificate 7024. Tbilisi-2017		D. Songhulashvili

23	Investigation of the ability to form complexes of copper and zinc with antiprotozoal drugs Naxogin and Tinidazole	Printed	Theses of the international scientific-methodical conference „Chemistry-Achievements and Perspectives" dedicated to the 85th anniversary of the birth of Academician Givi Tsintsadze 19-20 October. p. 98-101 Tbilisi - 2018	3	T. Tsivtsivadze N. Chigogidze N. Bregadze R. Kldiashvili
24	Investigation of the ability to form complexes of copper and zinc with antiprotozoal drugs Naxogin and Tinidazole.	Printed	Scientific works of the international scientific-methodological conference „Chemistry-achievements and Perspectives" dedicated to the 85th anniversary of the birth of Academician Givi Tsintsadze collection,p. 95 – 98 Tbilisi – 2019	3	T. Tsivtsivadze N. Chigogidze N. Bregadze R. Kldiashvili
25	Teaching modern periodic table, periodicity and properties of elements by virtual method.	Printed	Theses of the international scientific-methodical conference „Chemistry-Achievements and Perspectives" dedicated to the 85th anniversary of the birth of Academician Givi Tsintsadze p. 95-98 Tbilisi - 2019	3	T. Tsivtsivadze N. Chigogidze N. Bregadze R. Kldiashvili
26	Teaching modern periodic table, periodicity and properties of elements by virtual method.	Printed	Scientific works of the international scientific-methodological conference „Chemistry-Achievements and Perspectives" dedicated to the 85th anniversary of the birth of Academician Givi Tsintsadze collection, p. 52-55 Tbilisi – 2019	3	D. Songhulashvili M. Tevzadze

27	Teaching chemical kinetics by virtual method	Printed	Theses of the international scientific-methodical conference "Chemistry-Achievements and Perspectives" dedicated to the 85th anniversary of academician Givi Tsintsadze's birth. October 19-20. pp. 56-59. Tbilisi – 2018	2	D. Songhulashvili T. Tsivtsivadze R. Kldiashvili
28	Teaching chemical kinetics by virtual method	Printed	Scientific works of the international scientific-methodological conference „Chemistry-Achievements and Perspectives" dedicated to the 85th anniversary of the birth of Academician Givi Tsintsadze collection,pp. 56 – 59 Tbilisi – 2019	2	D. Songhulashvili T. Tsivtsivadze R. Kldiashvili
29	Poison is a dose	Printed	Georgian Technical University. The 87th Open International Scientific Conference of Students. Tbilisi - 2019	4	T. Tsivtsivadze N. Tsukhishvili
30	The role of Music in chemical processes In progress	Printed	Georgian Technical University. The 87th Open International Scientific Conference of Students.Tbilisi - 2019	4	T.Tsivtsivadze R. Kldiashvili d. zhgenti
31	Adsorption of Mycotoxins using Natural Raw Materials	Printed	International Scientific and Technical Conference, "Environmental Protection environment and sustainable” development is dedicated to professor Victor Eristavi’s memory. p.136-137 Tbilisi – 2019	2	R.Yridia N.karkashadze I. Tatiashvili N.Werodze I. Mikadze
32	Interactive methods in modern education	Printed	International Scientific and Technical Conference, "Environmental Protection environment and sustainable” .11-12 Nov. Tbilisi-2019	2	E. Abashidze R. Kldiashvili
33	E-Learning in Chemistry-Salt Hydrolyses	Printed	International Conference on Innovative Methods of Teaching and Technological Advancement in Higher Education IMTTAHE. Tbilisi-2020	1	D. Congulashvili R. Kldiashvili

34	Virtual laboratory Works in General Chemistry (e-learning) Help Guide	Printed El.version	PUBLISHING HOUSE "Technical University" ISBN-978 9941 28 754-1 Tbilisi - 2021	60	R. Kldiashvili
35	Laboratory work in general chemistry - student's notebook	Printed El.version	PUBLISHING HOUSE "Technical University" ISBN-978 9941 28 818 Tbilisi – 2021	60	R. Kldiashvili
36	Virtual Laboratory Works in Chemistry (Auxiliary guide)	Printed El.version	PUBLISHING HOUSE "Technical University" ISBN-978 9941 28 849-4 Tbilisi – 2021	62	-----
37	Virtual Laboratory Works in Chemistry (Workbook)	Printed El.version	PUBLISHING HOUSE "Technical University" ISBN-978 9941 28 848-7 Tbilisi – 2021	58	-----
38	Blended Learning in Chemistry and Physics	Printed	International Scientific Conference "Education, Technology and Innovation" ICETI. December 15 Tbilisi –2021	2	D. Songhulashvili R. Kldiashvili
39	Chemical equilibrium teaching by virtual method	Printed	Theses of the international scientific-conference dedicated to the 90-th birthday of academician Givi Tsinsadze „Chemistry-achievements and perspectives. Tbilisi-2023	1	D. Songhulashvili R. Kldiashvili
40	Chemical Equilibrium	Printed	Collection of works of the International Scientific Conference dedicated to the 90-th birthday of academician Givi Tsinsadze “Chemistry-Achievements and Perspectives”. P-80-86 Tbilisi-2023	3	D. Songhulashvili R. Kldiashvili
41	Teaching by Scientific Method- Fuel and Electricity	Printed	The Third International Scientific Conference "Education, Technology and Innovation" ICETI. December 15 Tbilisi –2023	5	R. Kldiashvili A.Kaikatsishvili

