Results of scientific activities carried out since 2013

Assoc. Prof. Tamar Giorgadze

Articles:

- Mixed ligand coordination compounds of cobalt(II) and nickel(II) with ortho-amino-5methylpyridine and isonicotinoylhydrazone of paradimethylaminobenzaldehyde - Georgian Chemical Journal, 2013, vol.13(1), p.8-11, co-authors: N. Tabuashvili, M. Tsintsadze, N. Kilasonia, N. Gegeshidze
- Quantum chemical study of the effect of solvents on the complexing ability of 2,6-diethyl-4,8-dimethyl-2,4,6,8-tetraazabicyclo[3,3,0]octanediol-3,7 (alvicar-AV) - Chemical Journal of Georgia, 2015, T.15 No. 2, pp. 6-13, Co-authors: T.G. Tsintsadze, I.O. Gvelesiani, N. Kilasonia, T.N. Tusiashvili, D.M. Lochoshvili
- Solvent effect on complex formation of dimethylacetamide and N,N-dimethylformamide, Herald of the National Academy of Sciences of Georgia. Chemistry series. 2016, vol. 42, N3 p. 320-324, Co-authors: G.Tsintsadze, D.Lochoshvili,E.Topuria, T.Tusiashvili
- The influence of the solvent on the complexing ability of acetylhydrazide with metals. Chemical Journal of Georgia, 2016, T.16, N1. With. 11-14, Co-authors: M. Tsintsadze, N. Kilasonia, M. Kereselidze L. Skhirtlpdze, D. Lochoshvili
- Effect of solvent on the complexing ability of benzoylhydrazone formaldehyde, Chemical Journal of Georgia, 2017, V.17, N1. With. 44-50 Co-authors: N.O. Kilasonia, T.N. Tusiashvili, N.L. Tabuashvili, M.T. Kiladze
- Effect of solvent on the complexing ability of benzoylhydrazone benzaldehyde, Chemical Journal of Georgia, 2017, V.17, N1. With. 51-59, Co-authors: E.S.Topuria, N.T.Bolkvadze, M.Chanturia, D.M.Lochoshvili
- Effect of solvent on the complexing ability of Formylhydrazone Benzaldehyde, Chemical Journal of Georgia T.18 N.1, 2018, p.51-56, Co-authors: M.G. Tsintsadze, G.V.Tsintsadze D.M.Lochoshvili, N.O.Endeladze, ISSN 1512-0686
- Influence of solvents on the complex formation ability of 3-nitrodibenzthiophene, Georgian Chemical Journal Vol. 19 No. 1, 2019, p. 21-25; Co-authors: M. Tsintsadze, M. Maisuradze, N. Bolkvadze, D. Lochoshvili, ISSN 1512-0686
- 9. Effect of solvent on the complexing ability of para-dimethylaminobenzaldehyde metanitrobenzoylhydrazone, Chemical Journal of Georgia, T.19, N1. 2019. p. 33-37, Co-authors: I. Sharia, M. Tsintsadze, D. Lochoshvili, G. Tsintsadze, ISSN 1512-0686
- Effect of solvent on the complexing ability of meta-nitrobenzoylhydrazone metanitrobenzaldehyde (MNBGMNB), Int. Scientific and technical conf. "Nature conservation and sustainable development" dedicated. 80 years old. Prof. V. Eristavi, Collection of works, Tbilisi, 2020, pp. 164-166, Co-authors: I. Sharia, M. Tsintsadze, D. Lochoshvili, G. Tsintsadze
- Defining the complex formation ability of a hydrazone (para-nitrobenzoylhydrazone of metanitrobrobenzaldehyde (PNBHMNBA) Containing carbonyl group. CHEMICAL AND TECHNOLOGICAL ASPECTS OF BIOPOLYMERS Book, Volume I, Publishing House "UNIVERSAL" Tbilisi 2020, pp157-166, Co-authors: M. G. Tsintsadze, I. R. Sharia
- 12. Energy, electronic and structural characteristics of alpha-pyridinaldehyde isonicotinoylhydraz-one (Apainh) molecule in different solvents calculated by quantum-chemical semi-empirical AM1 method, Engineering News of Georgia, No. 3, 2021, p. 9-17, **co-authors:** Chanturia M.M., Lochoshvili D.M., Gulbani D.V., ISSN 1512-0287

- 13. Synthesis of coordination compounds of cobalt (II) and nickel (II) meta-nitrobenzaldehyde with para-nitrobenzoylhydrazone (L) and study of physico-chemical properties, Technical University of Georgia "Chemistry achievements and perspectives" from the birth of academician Givi Tsintsadze Proceedings of the international scientific conference dedicated to the 90th anniversary, Tbilisi 2023, p. 63-70, **co-authors:** Indira Sharia, Tatia Tusiashvili, Ekaterine Topuria, ISBN 978-9941-28-970-5
- 14. The effect of solvents on the ability of saluzide (2-carboxy-3,4-dimethoxybenzaldehyde isonicotinoylhydrazone) to form complexes, Technical University of Georgia "Chemistry Achievements and Perspectives", Proceedings of the international scientific conference dedicated to the 90th anniversary of Academician Givi Tsintsadze's birth, Tbilisi 2023, p. 76-86, co-authors: Mineda Chanturia, Dima Lochoshvili, Darejan Gulbani, ISBN 978-9941-28-970-5

Monographs:

- 1. Cyanate, thiocyanate and selenocyanate compounds of metals, "Technical University", Tbilisi, 2016, 128 p. **Co-authors:** G.V. Tsintsadze, M.G. Tsintsadze
- Study of infrared absorption spectra of compounds with XCN groups "Technical University", Tbilisi, 2017, 74 p. Co-authors: G. Tsintsadze, M. Tsintsadze
- Isonicotinoylhydrazone of furfuralacetone (larusan) and its coordination compounds with metals, "Technical University", Tbilisi, 2019, 116 p. Co-authors: M.G. Tsintsadze, G.M. Manvelidze, A.P. Narimanidze⁺, N.L. Maisuradze, T.Z. Giorgadze, I.O. Gvelesiani, ISBN 978-9941-28-305-5
- Coordination compounds of Co(II) and Ni(II) with nitrogen- and oxygen-containing ligands derivatives of the heterocyclic series (meta-nitrobenzaldehyde hydrazones), "Technical University", Tbilisi, 2021, 142 p. Co-authors: M. Tsintsadze, I. Sharia, G. Tsintsadze, ISBN 978-9941-28-700-8

Manuals:

- 1. Coordination chemistry workbook (methodical instructions) "Technical University of Georgia" Tbilisi 2013, 40 p. **Co-authors:** M. Tsintsadze
- Collection of general chemistry tests "Technical University" Tbilisi 2013, 87 p. Co-authors: M. Tsintsadze, N. Kutsiava, M. Matsaberidze, N. I am afraid of you, N. Killasonia
- 3. Practical Inorganic Chemistry "Technical University of Georgia" Tbilisi 2016, 112 p. Coauthors: M. Tsintsadze, N. Gegeshidze, N. Kilasonia

Conferences:

- Solvent effect on complex formation of dimethylacetamide and N,NdimethylformamideInternational, Scientific Conference, Semptember 21-23, 2016, Ureki, Georgia 179-180. Co-authors: G.Tsintsadze, D.Lochoshvili, E.Topuria, T.Tusiashvili
- 2. Cadmium mixed-ligand coordination compound, 85th Stu-Student Open International Scientific Conference, Chemistry Section, 2017 p. 1 Co-authors: D. Cebu, N. Killasonia
- 3. Solvent effect on complexformation of Benzaldehyde Formylhydrazone Inter. Mini-Symposium "Bioactive compounds, Antimicrobian and Biomedical prodacts Materials for

protection of Human and Environment" Book of Abstracts, Tbilisi 2018, p.58-59, **Co-authors:** M.Tsintsadze, D.Lochoshvili, M.Kereselidze

- 4. The effect of the solvent on the complexing ability of meta-nitrobenzoylhydrazone metanitrobenzaldehyde, Prof. International scientific and technical conference dedicated to the 80th anniversary of V. Eristavi "Protection of the environment and sustainable development", collection of theses, November 11-12, 2019, p. 27, **Co-authors:** I. Sharia, M. Tsintsadze, D. Lochoshvili, G. Tsintsadze
- 5. Chemistry and construction materials, 87th open international scientific conference of students, Tbilisi. 2019, p. 144, **co-authors:** Vol. Buadze, N. Killasonia
- The effect of solvents on the complex formation ability of 3-nitrodibenzthiophene, the joint conference dedicated to the 80th birthday of Prof. V. Eristavi. Three too. Tech. Conf. "Environmental protection and sustainable development" collection of theses, November 11-12, 2019 p. 31, co-authors: N. Margvelashvili, M. Tsintsadze, E. Topuria, E. Kalandia
- The Effect of the Solvents on Aminodibenzothiophene on the Ebility to Create Complexes, Online Conference "Compounds and Materials with Specific Properties" TSU, 2020 p.59, Coauthors: M. Tsintsadze, Z. Gogberashvili, D. Lochoshvili
- 8. 3-AMINODIBENZOTHIOPHENE AND DERIVED FROM ITS COORDINATION COMPOUNDS, 6th INTERNATIANOL TURKIC WORLD CONFERENCE ON CHEMICAL SCIENCES AND TECHNOLOGIES (ITWCCST 2022) 26-AZERBAIJAN, p.132 **Co-authors:** Bolkvadze N., Topuria E., Tusiashvili T.
- 3-Aminodibenzothiophene and derived from its coordination compounds, Kyiv Conference on Analyticai Chemistry Modern Trends 2022 of FAbstracts p. 57, Co-authors: N. Bolkvadze, E. Topuria, T. Tusiashvili
- 10. The effect of solvents on the complex-forming ability of saluzide (2-carboxy-3,4dimethoxybenzaldehyde isonicotinoylhydrazone), "Chemistry-achievements and perspectives" international scientific-methodological conference dedicated to the 90th anniversary of the birth of Academician Givi Tsintsai April 20, Tbilisi, 2023, p. 69-70, coauthors: M. Chanturia, D. Gulban, D. Lochoshvili
- 11. Synthesis of coordination compounds of cobalt (II) and nickel (II) meta-nitrobenzaldehyde with para-nitrobenzoyl-hydrazone (L) and study of physico-chemical properties, "Chemistry-Achievements and Prospects" International-scientific meeting dedicated to the 90th anniversary of the birth of Academician Givi Tsintsai Methodical conference April 20, Tbilisi, 2023, p. 71-72, **co-authors:** I. Sharia, E. Topuria, T. Tusiashvili
- 12. The effect of solvents on the complex formation ability of para-nitrophenylhydrazine, "Chemistry-Achievements and Perspectives" international scientific-methodical conference dedicated to the 90th anniversary of the birth of Academician Givi Tsintsadze April 20, Tbilisi, 2023, p. 72-73, **co-authors:** Kh. Gambarashvili, N. Bolkvadze, D. Lochoshvili
- 13. Study of Absorption Spectra of Coordination Compounds of Cobalt (II) and Nickel (II) with Para-nitrophenylhydrazine (PNPH-L), 2nd Interl Scient. Conf. "Science, Education, Innovation and Chemical Technologies from Idea to Implemention" Seasonal school for masters and doctoral students "Innovation - from Idea to Implemention"2023, Tbilisi, TSU, Co-authors: Kh. G. Ghambarashvili, M.Mamiseishvili