



Neli Sidamonidze

Associate Professor

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Education

- University Diploma in Chemistry(Macromolecular Chemistry), Ivane Javakhishvili Tbilisi State University
- Doctor of Chemistry Sciences, N001077, Ivane Javakhishvili Tbilisi State University

work experience:

- 1976-1988 - TSU. *The youngest scientist is high-molecular The chemistry of compounds*
- 1988-1990 - TSU, Senior Research Fellow High-Molecular The chemistry of compounds
- 1990-2002 TSU, bureau of chemistry faculty under the competition
- 2002-2006 **Professor of the Department of Bioorganic Chemistry** at TSU by competition
- **Assistant Professor** who has been elected on the basis of the **competition for 4 years**
- 2006-2016
- From 02.02 to 2016 on the bioorganic chemistry **competition** **Associate Professor elected by the rule**

Membership of scientific boards and associations:

- 2001-2004 - P. Melikishvili's house Physical and Organism
Member of the Dissertation Board Ch.02.04;
- 2004-2006 - Member of the TSU Chemistry Ch.02.03 N1 Dissertation Board
- 2004-2006 - Chairman of the Expert Commission of Chemistry. Scientific Quality to get quality - 02.00.06 mm chemistry and
Member of the expert committee specialty - organic chemistry

Teaching Courses:

- Bioorganic Chemistry (seminar) (Bak)
- Biological Chemistry (Bak)
- Pharmaceutical Chemistry 1 (Bak)
- Pharmaceutical Chemistry 2 (practicum) (Bak)
- Agricultural Chemistry (seminar) (Bak)
- Carbohydrate Chemistry (Mag)
- Chemistry of Biotechnology (Mag)
- Chemistry of Lipides (Mag)

Research Interest

- Synthesis of New Type of Glicosilamines Containing Nitroso (N=O) Group;
- The Condensation Reactions of 1-Chloro- 2,3,4,6-Tetra-O-Acetyl- α -D-Gluco(Galacto)pyranoze With Heterocyclicamines

Running projects

- Synthesis of N-glycosides Derivatives;
- Study of Their Biological activity and Pharmacokinetic Behavior. Mathematical Chemistry.

Selected Publication

The total number of works - 138 (1974-2017)

**International Conference On Organic and Polymeric Chemistry - 13
(2010 - 2017)**

Text Books - 8 (1999-2017)

Impact-Factor and foreign editiond

(1974–2017)

1. Гахокидзе Р.А. Сидамонидзе Н.Н. О получении 2-дезоксид-Л-арабиногексоновой кислоты. **ЖорХ**, 1981, т.17, с.1116-1118.
2. Гахокидзе Р.А., Сидамонидзе Н.Н. Новый подход к синтезу 2-дезоксид-D-глюконовой кислоты. **ЖорХ**, 1986, т.22, вып. 4, с.876-877
3. Гахокидзе Р.А., Сидамонидзе Н.Н. Кислотное превращение сульфонов альдоз. **ЖОХ**. 1986, т.56, вып.2, с.487-488.
4. Гахокидзе Р.А. , Сидамонидзе Н.Н. Синтез 2-дезоксидрибозы. **ЖорХ**. 1987. Т.23, вып.5, с.1227-1229.
5. Гахокидзе Р.А., Хидешели З.Г., Чан Ван Тан, Сидамонидзе Н.Н. Новые микробициды. **Защита растений**. 1987. №7, с.41-43,
6. Сидамонидзе Н.Н., Гахокидзе Р.А. Удобный метод получения 2-дезоксидэритропен-тозы. **ЖОХ**, 1987, т.57, вып.10, с.2399-2400.
7. Гахокидзе Р.А., Сидамонидзе Н.Н., Чан Ван Тан. Кислотное превращение α -замещенных кетоз. **ЖОХ**, 1988, т.58, вып. 4, с. 911-919 .
8. Gakhokidze R.A., Labartkava V.O., Sidamonidze N.N. The investigation of 2-Deoxy Sugars and their derivatives by NMR Spectroscopic and Quantumchemical methods/ . Wessenchaftliche beitrage der Friedrich-Schiller/ Universitet IENA 1989 "Compana 88" p. 82-94.
9. Lekishvili N., Asatiani L., TsitsiSvili V., Sidamonidze N.N. Lekveishvili E. Fluorine – containing polyamide acids and polyimides. **Russian Polymer News**. 2003. v.8. N 4. p. 15-22.
10. Sidamonidze N.N., Vardiashvili R.O., Isakadze M.O. Hydrosilation of Allyl Esters of Monosaccharides. **Chemical of Heterocyclic Compounds**. 2005, v.41 . N 12, p.1534-1536.
11. Gakhokidze R.a., Sidamonidze N.N., Tabatadze L.I., Synthesis of Certain S-containing Disaccharide Derivatives. **Chemistry of Natural Compounds**. 2005, v.41, N 5, p.592-593.
12. Sidamonidze N.N., Vardiashvili R.O., Janiashvili L.K., Gakhokidze R.A. Synthesis of 2,3,4,6-tetra-O-acetyl- β -D-gluko(galacto)piranosyl caprolactams and 2,3,4,6-tetra-O-acetyl- β -D-gluko(galacto)piranosyl pyrrolidones. **Chemistry of Natural Compounds**. 2006, v.42, N 2. p. 127-128.
13. Sidamonidze N.N., Vardiashvili R.O., Isakadze M.O., Chachua E.K. Mercaptan Addition To 1-0-Allyl-2,3,4,6-tetra-O-acetyl- β -D-galactopyranoze. **Chemistry of Natural Compounds**. 2007. v.43, N 3, p.250-253.
14. Sidamonidze N.N., Vardiashvili R.O., Isakadze M.O., Djaniashvili L.K. Lomtadze Z.G. Boilological Activity of some Aldose-containing compounds. **Pharmaceutical Chemistry Journal**. 2007, V.41, N 3, , p.131-132
15. N.Sidamonidze., L. Tabatadze., R.Gakhokidze., Z.Lomtadze. Synthesis and antimicrobial activity of sulfur-containing Glycosides. **Pharmaceutical Chemistry Journal**. 2007.v. 41, N 8, p.407-408.
16. Sidamonidze N., Bogveradze N. Synthesis of S-As and Se-As bond-containing Glycosides. **Chemistry of Advanced Comp. and Materials**. New York. 2008. p.265-268
17. Сидамонидзе Н.Н., Купатадзе К.Т., Гвердцители М.И. Теоретическое исследование корреляции "структура-свойства" в рамках методов ПНС-, квази-ПНС и ЭП-матриц. **Прикладная физика**. 2009, N 6, с. 94-98.

18. Sidamonidze N.N., Gakhokidze R.A., Arabuli L.G., Lomtadze Z.G. Synthesis and biological Activity of some derivatives of selenoglucosides. **Chemical of Heterocyclic Compounds**. 2009, v.45, N 8. p.1167-1171. www.osi.lv/hgs/hgs. www.Springeronline.com.
19. **Sidamonidze N.N.**, Vardiashvili R.O., Gverdciteli M.I., Gakhokidze R.A. Synthesis of Some Dibenzooxabicycloaminocontaining 1,2-trans-glucosides. **Chemistry of Natural Compounds**. 2009. v. 45, N4. p 231-238. www.Springerlink.com
20. **N.N.Sidamonidze**, R.O.vardiashvili, and M.O.Nutsubidze. Mercaptan Addition to Allylglucosides. **Chemistry of Natural Compounds**. 2010, v. 46, N 4, p. 514-517.
21. Mukbaniani O., Aneli J.N., Tatrishvili T.N., Markarashvili E.C., **Sidamonidze N.N.**, Jalagonia N.T. Investigation of electrical-physical properties of some electrolytes based on siliconorganic polymers. **Engineering physics**. 2014, p.41-45.
22. Mukbaniani O., Tatrishvili T.N., **Sidamonidze N.N.**, Jalagonia Quantum chemical investigation of model hydrosilylation reaction of methyltrimethoxysilane with allyl cyanide. **APPLIED PHYSICS AND MATHEMATICS**. ISSN 2307 – 1621. Moskow. N 3. 2015, p. 3-7.
23. **Sidamonidze N.**, Vardiashvili R., and Nutsubidze M. Reaction Mechanism and Quantum-Chemical Computation of Hydrosilylation Reaction of Allyl Glycosides. **Journal of Natural Science and Sustainable Technology**. NEW YORK. 2015. N3, Vol. 9, p.679-684. ISSN: 1933-0324
24. **N.N.SIDAMONIDZE**, M.I.GVERDTSITELI. GRAPHS: “SYMMETRIC STAR”, “PSEUDOSYMMETRIC STAR”, “ASYMMETRIC STAR” AND THEIR APPLICATION IN MATHEMATIC CHEMISTRY. **Engineering physics**. Moskow. 2016, N 6, p.94-98. ISSN: 2072-9995
25. **N.N. SIDAMONIDZE**. M.I.GVERDTSITELI, Z.I.MACHAIDZE, MATHEMATICAL-CHEMICAL INVESTIGATION OF ELECTROCONDUCTIVITIES OF Ph₄PCl AND Ph₄PBr IN ALCOHOLS SOLUTIONS“. **Engineering physics**. Moskow. 2016, N 10, p.65-68. ISSN: 2072-9995.
26. **N.SIDAMONIDZE**, R.GAKHOKIDZE, R.VARDIASHVILI, M.GVERDTSITELI. „MATHEMATICAL- AND QUANTUM-CHEMICAL INVESTIGATION OF SOME LACTAMO- CONTAINING DERIVATIVES OF β-D-GLUCOPYRANOSE. **Engineering physics**. Moskow. 2016, N11, p.74-80. ISSN: 2072-9995
27. **Neli Sidamonidze**, Mikheil Gverdtsiteli. „MATHEMATICAL-CHEMICAL INVESTIGATION OF SOME CHLORANHYDRIDES OF CARBOXYLIC ACIDES“. საქ. მეცნ. აკად. მოსმბე. 2017. ტ.11, N 1. გვ.56-59.
28. **Sidamonidze N.N.**, Koiava N.A., Rtskhiladze N.I., Gverdtsiteli M.I. MATHEMATICAL-CHEMICAL INVESTIGATION OF ARSENIC (III) HALIDES. **GEN**, 2017. N4. p. 160-164. ISSN 1512-0287