PROF. OMAR MUKBANIANI

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Relevant educational background

1957-1966 Graduated 15th secondary school of Tbilisi, (Silver Medalist).
1966-1971 Undergraduate Student, Tbilisi State University, Faculty of Chemistry (TSU).
1972-1973 Research worker, Faculty of Chemistry, Department of High Molecular Compounds (TSU).
1973-1976 Post-graduated from A.N. Nesmianov Institute of Organo element Compounds Academy of Sciences USSR (INEOS, Moscow, Russia).

Relevant work experience

In 1977 – O. Mukbaniani defends his candidate dissertation: "Synthesis of polycyclic organosilixane compounds and block-copolymers on their Bases" (Certificate of Diploma XM №002211).
1977-1985 – Senior Research Worker, of Chemistry Faculty, Department of High Molecular Compounds of TSU.
1983 – Certificate of Diploma of Senior Research Worker (CH №032401).
1985-1993 – Associate Professor (Docent) of the Department of High Molecular Compounds of Chemistry Faculty (TSU). Certificate of diploma of Associate Professor (ДЦ №009457).
1993 – O. Mukbaniani defends his doctor thesis: "Organosilicon copolymers and block-copolymers with various cyclic structure of macromolecules" (TSU) (Certificate of diploma №000179).
Since1994 – Professor of the Department of High Molecular Compounds of Faculty of Chemistry (TSU) (Certificate of diploma №000288 professor of organic chemistry).

Further activity of O. Mukbaniani is narrowly connected with polymer sciences, first of all with synthesis, investigation properties and application of heat resistance, thermal stable organo/inorganic polymers and composite materials.

1997-2006 – Head of the department of organic chemistry of Sokhumi State University, branch of Tbilisi State University (combine jobs).
2002-2006 - Head of the scientific laboratory "Hetero Chain Polymers and Composite Mate rials".
2000 - till now full professor, chair of Macromolecular chemistry of the Department of Chemistry (TSU).
2009 - Director of the Institute of Macromolecular Chemistry and Polymeric Materials.

Trainings:

2014 – Invited professor of Organic Technology department of Kaunas University of Technology, Lithuania. Kaunas. Prof. Juozas Vidas Grazulevicius: "Synthesis and Properties of Electroactive Silicon Organic Compounds"
2008 – Groningen (Holland), Tuning Project, the approaching program of Georgian universities to European universities program.

2008 - Invited professor of the University of Muenster, Prof Hans-Dieter Wiemhoffer. "Synthesis of Siliconorganic Polymer Electrolites for Energy Storage Devices in Lithium Batteries". – (DFG)

1998 – Invited professor of the Polymeric Research Institute of Mainz, Max-Plank Institute (MPI) with Prof. K. Meullen. Subject: "Conjugated polyheteroarylenes" (DFG – 3 months).

1998 – Invited professor of Pharmaceutical University of Muenster with Prof. G. Blashke. Subject: "Negative and positive charged β-cyclodextrines for capillary electrophoresis" (DFG – 3 months).

1995 – Invited professor of Saarbruken University with Prof. Engelhard. Subject: "Siliconorganic compounds for capillary electrophoresis".

1992 – Research Associate of the Technical University of Dresden (FRG), with Prof. K Ruhlmann. Subject: "Synthesis of polysilanes for ceramic materials". Nuncritz Gmbh, Subject: "Modification siliconorganic elastomers".

1987 – Scholarship of the University of Iena (GDR) on the Department of Organic Chemistry, with Prof. H.H. Horchold. Subject: "Epoxy containing organosiloxanes and copolymers on their bases".

1987 – Scholarship of the Technical University of Rostok (GDR), with Prof. H. Kelling. Subject: "Synthesis and investigation of properties of new polyorganosiloxanes".

1987 – Scholarship of the Technical University of Dresden (GDR) on the Department of Organic Chemistry, with Prof. K. Ruehlmann. Subject: "Synthesis of new epoxy containing organosiloxanes".

1983 –1984 – Scholarship of Budapest Polytechnic University (Hungary). Department of inorganic Chemistry, with Prof. I. Nagy. Subject: "Novel organosiloxane copolymers containing cyclosiloxane rings as a pendant groups" (10 months).

Research interests in the present:

Polymer chemistry. Chemistry of organosilicon compounds.
Modification of organo/inorganic monomers and polymers.
Kinetics and mechanisms of chemical reactions.
The synthesis of silicon based polymers and copolymers including polysiloxanes, po-lysilanes, organic polysilicates and polycarbosilanes is investigated. Methods of precision synthesis to build block, graft and comb-type structure are developed. The mechanisms of reactions leading to these polymers are also studied. Some effort is devoted to the synthesis of various types of functionalized silicon polymers.
-Solid polymer electrolyte membranes for electro storage devices on silicon matrix.
- Obtaining of new composites on the basis of renewable plant materials and ecologically pure coatings.

Languages

Georgian (native), Russian, English.

Membership of organizations:

- From 2008 member of Georgian Academy of Natural Sciences;
- From 2008 Member of Editorial Board of Periodical Scientific Journal "Khandzta".

- From 2007 Member of Editorial Board of International Journal "Polymers Research Journal".
- From 2006 Member of Advisor board of the Journal Proceeding of Iv. Javakhishvili Tbilisi State University (Chemical Series).
- 2002-2006 Contributing Editor of the Journal Polymer News'.
- 1993-2006 - Member of Scientific Degree Award Council of Iv. Javakhishvili Tbilisi State University;
- Member of New York Academy of Science (1996);
- From 1971 Member of D. Mendeleyev Chemical Society of Georgia;

Activities:

Chair of 1st, 2nd, 3rd and 4 th International Symposium on Polymers and Advanced Materials

(http://www.tsu.ge/icsp/, http://www.tsu.ge/icsp2/ , http://www.tsu.ge/icsp3/ ,

www.icsp4.tsu.ge)

Prizes:

In 1983 – awarded of the Premium Petre Melikishvili for "Best scientific work in the Natural Sciences of Georgia" Academy of Sciences of Georgia.

Honors received

2003.24.02 - Honor order of Georgia (№06099 Surrender Warrant №182).

Internetional grants:

2014-2016 Science and technology center of Ukraine and Georgian National Science Foundation: "Obtaining of new composites on the basis of renewable plant materials and ecologically pure coatings" #5892

2010–2012 Science and technology center of Ukraine and Georgian National Science Foundation: "Synthesis of Siliconorganic Polymerelectrolytes for Electro storage Devices in Lithium Batteries", #5055 .

2002-2003 – Scholarship of World Federation of Scientists (Lausane-Switzerland): „Utilization of Georgian Natural Raw Materials for Purpose to obtain New Composites".

1996 – 1998 – Scholar of International Science Foundation (J. Soros).

1995 Individual Grant of International Science Foundation (ISSF).

Local grants:

2007- Grant of Georgian National Science Foundation for creation of the center of in strumental analysis (with the head).

2006-2009 - Grant of Georgian Science Foundation: "Synthesis of new organo/inorganic poly- mers on the base of functional group containing monomers and composition materials on their basis" – Chief of the Project GNSF/ST06/4-070.

2005 - Financing of Research works of Georgian State institution, “Synthesis and Investigation of Properties of New Organo/inorganic Polymers on the Basis of Functional Group Con-taining Monomers” – Chief of the Project #91.

1998-2001 – Grant of Georgian Science and Technology: [#52 (3135)] “Synthesis of silicon-organic monomers and polymers on their basis with practical values” – chief of the project.

He is an author more than 400 publication, 10 books and monographs and 10 inventions. Under guidance of Prof. O. Mukbaniani 16 candidate dissertations and 18 magistrate works has been prepared.

Monographs and books

1. High-Performance Polymers for Engineering-Based Composites. Editors Omari V. Mukbaniani, Marc J.M. Abadie & Tamara N. Tatrishvili. Apple Academic Press, Inc., 2015, pp. 325
   http://www.appleacademicpress.com/title.php?id=9781771881197
2. O. Mukbaniani, J. Aneli, T. Tatrishvili, E. Markarashvili. "Polymeric Materials" - Part 2, Publisher Tbilisi State University, Tbilisi 2015, 467 pp. (in Georgian).
3. O. Mukbaniani, J. Aneli, T. Tatrishvili, E. Markarashvili. "Polymeric Materials" - Part 1, Publisher Tbilisi State University, Tbilisi 2015, 517 pp. (in Georgian).
4. Key Engineering Materials Volume II. Interdisciplinary Concepts and Research. Editors Francois Kajzar, Eli M. Pirse, Nokolai A. Turovski, Omari. V. Mukbaniani. Reviewers and Advisory Board Members: A. K. Haghi, PhD, and Gennady E. Zaikov, DSc**.** 2014, pp. 450
   http://www.appleacademicpress.com/title.php?id=9781926895741
   file:///C:/Users/Administrator.omari-PC/Downloads/Key%20Engineering%20Materials%20VOL.%202%20NBA_.pdf
5. O. Mukbaniani, J. Aneli, E. Markarashvili, T. Tatrishvili. “Laboratory session on polymeric materials”. Text book for university students – Publisher Tbilisi State University, Tbilisi, 2012, 273 pp. (In Georgian).
6. G. Andronikashvili, O. Mukbaniani, B. Arziani, L. Beridze. «Chemistry» – The text-book for University Preparatory Branch and Entrants, Tbilisi 2012, 455 pp. (in Georgian).
7. O. Mukbaniani, J. Aneli, T. Tatrishvili, E. Markarashvili. “Polymeric Materials”. Text book for university students – Publisher “Universal”, Tbilisi, 2011, 737 pp. (In Georgian).
8. E. Markarashvili, T. Chogovadze, O. Mukbaniani. Organosilicon compounds for medical purpose”. Auxiliary Textbook. Publisher “Universal”, Tbilisi - 2011, 230 pp. (in Georgian).
9. O. Mukbaniani, T. Tatrishvili. “Macromolecular Chemistry”, Text book for university students – Publisher Tbilisi State University, Tbilisi, 2010, 766 pp. (In Georgian).
10. O.V. Mukbaniani and G.E. Zaikov. New Concepts in Polymer Science, «Cyclolinear Organosilicon Copolymers: Synthesis, Properties, Application». Printed in Netherlands, ///VSP///, Utrecht, Boston – 2003, 499 pp.
    http://www.brill.nl/default.aspx?partid=18&searchtext=mukbaniani&type=1

11. L.M. Khananashvili, O.V. Mukbaniani and G.E. Zaikov. New Concepts in Polymer Science, «Elementorganic Monomers: Technology, Properties, Applications». Printed in Netherlands, ///VSP///, Utrecht, 2006, 496 pp. http://www.brill.nl/default.aspx?partid=18&pid=24311
12. O.V. Mukbaniani, T.N. Tatrishvili and G.E. Zaikov. «Modification Reactions of Oligomethylhydridesiloxanes». Nova Science Publisher, Inc. Huntington, New York, 2007, 228 pp. https://www.novapublishers.com/catalog/product_info.php?products_id=4693
13. G. Andronikashvili, O. Mukbaniani, B. Arziani, L. Beridze. «Chemistry» – The text-book for University Preparatory Branch and Entrants, Tbilisi 2004, 455 pp. (in Georgian).
14. O.V. Mukbaniani, T.N. Tatrishvili. «Polysilylenes». //Auxiliary Textbook, Publisher Tbilisi State University, Tbilisi 2004, 168 pp. (in Georgian).
15. G. Andronikashvili, O. Mukbaniani, B. Arziani, L. Beridze. «Chemistry» – The text-book for University Preparatory Branch and Entrants, Tbilisi, 2000, 540 pp. (in Georgian).
16. O.V. Mukbaniani, M.G Karchkhadze, R.Sh. Tkeshelashvili, S.M. Meladze. "Practical in the synthesis of high-molecular compounds with methodological guidance". Publisher Tbilisi State University, 1997, 84 pp. (in Georgian).

Chapters in the book, articles and abstracts of conferences

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17. T. Tatrishvili, N. Jalagonia, K. Gelashvili, M. Khachidze, E. Markarashvili, J. Aneli, O. Mukbaniani Quantum Chemical Calculations of Hydrosilylation Reaction of Oligomethylhydrosiloxane to Allyl Cyanide and Polymer Electrolyte Membranes on their Basis. Oxidation Communications, Oxidation Communications 38, No 1, 13–24, 2015.
18. N. Jalagonia, I. Esartia, T. Tatrishvili, E. Markarashvili, D. Otiashvili, J. Aneli, and O. Mukbaniani. 28 Chapter in the book Chemical and Structure Modification of Polymers**.** Siloxane Matrix with Methylpropionate Side Groups and Polymer Electrolyte Membranes on Their Basis. Editors Kajetan Pyrzynski, Gregorz Nyszko, Gennady Zaikov, Apple Academic Press, 2015. http://www.appleacademicpress.com/title.php?id=9781771881227
19. M. Iskakova, E. Markarashvili, J. Aneli, and O. Mukbaniani . Composites on the Basis of Glycidoxygroup Containing Phenylsilsesquioxanes. Chapter 14 in the book "Chemical and Structure Modification of Polymers", Editors: Kajetan Pyrzynski, PhD Grzegorz Nyszko, PhD, Gennady E. Zaikov, DSc. Publisher Apple Academic Press, USA, 2015. http://www.appleacademicpress.com/title.php?id=9781771881227
20. O. Mukbaniani, J.Aneli, E. Markarashvili, T. Tatrishvili, N. Aleksidze, M. Tarasashvili. Composites on the basis of Martian ground. J. Oxid. Comm. 38, No 1, 2015,

2014

21. A.I. Opalko, J.N. Aneli, O.V. Mukbaniani. Professor Gennady Efremovich Zaikov - Man, Scientist, Citizen. (For 8-th anniversary). Proceedings of the Georgian National Academy of Sciences, 2014, #4, pp. 361-367.
22. O. Muknaniani, J. Aneli, T. Tatrishvili, E. Markarashvili. Comb-type organosilicon matrix for solid polymer electrolyte membranes. Abstracts of communications, VII International Scientific-Technical Conference "Advance in Petroleum and Gas Industry and Petrochemistry" (APGIP-7), Lviv Polytechnic National University, Lviv, Ukraine, May 19-24, 2014.
23. T. Tatrishvili, E. Markarashvili, J. Aneli, O. Muknaniani. Organosilicon polymers for solid polymer electrolyte membranes. Abstracts of communications, VII International Scientific-Technical Conference "Advance in Petroleum and Gas Industry and Petrochemistry" (APGIP-7), Lviv Polytechnic National University, Lviv, Ukraine, May 19-24, 2014
24. E. Markarashvili, T. Tatrishvili, L. Shamanauri, J. Aneli, O. Mukbaniani. Effect of chemical modified fillers on the properties of composites based on epoxy resin. Abstracts of communications, VII International Scientific-Technical Conference "Advance in Petroleum and Gas Industry and Petrochemistry" (APGIP-7**),** Lviv Polytechnic National University, Lviv, Ukraine, May 19-24, 2014.
25. T. Tatrishvili, E. Markarashvili, E. Esartia, J. Aneli, G. Zaikov, O. Mukbaniani. "Ring opening polymerization reactions of some hydroxyorganocyclotetrasiloxanes with propyl butyrate side groups and polymer electrolyte membranes on their basis". Oxidation Communications #1, 348-361, 2014. http://scibulcom.net/ocr.php?gd=2014&bk=1
26. N. Jalagonia, T. Tatrishvili, E. Markarashvili, J. Aneli, J. V. Gražulevičius, O. Mukbaniani. Syntheesis and Ionic Conductivity of Siloxane Based Polymer Electrolytes with Propyl Butyrate Pendant Groups. J. Chem. Chem. Eng. (2014) (In press).
27. O.V. Mukbaniani, J.N. Aneli,, T.N. Tatrishvili, E.G. Markarashvili, N.N. Sidamonidze, N.T. Jalagonia. The study electrical properties of solid electrolytes based on silicone polymers. Engineering Physics, №9, p. 41-44, 2014. (In Russian).
28. O. Mukbaniani, T. Tatrishvili, J. Aneli, E. Markarashvili. "Synthesis of silicon based polymer electrolyte membranses". Chemistry and Chemical Technology Proceedings of the international Conference, Kaunas University of Technology, 25 April 2014. p. 353
29. G. Titvinidze, A. Dundua, M. Doroshenko, O. Mukbaniani. Synthesis and Investigation of New Functional Polysiloxanes. Oxidation Communications, #1, 362-371. 2014. http://scibulcom.net/ocr.php?gd=2014&bk=1
30. G. Titvinidze, A. Dundua, O. Mukbaniani. Kinetic Study of Dehydrocondensation Reactions of Polymethylhydrosiloxanes with Alcohols. Oxidation Communications, #1, 372-378, 2014. http://scibulcom.net/ocr.php?gd=2014&bk=1
31. J. N. Aneli, G. E. Zaikov, O. V. Mukbaniani1, R. Jozwik, A.A. Berlin. Conductivity of electrical conducting polymer composites. Proceedings of the international scientific-practical conference, Chemistry: condition, development prospects, June 5-6, 2014, Grozny, Chechnya, p. 285.
32. O. Mukbaniani, T. Tatrishvili, J. Aneli, E. Markarashvili. "Synthesis of silicon based polymer electrolyte membranes" Chemistry and Chemical Technology Pro-

ceedings of the international Conference, Kaunas University of Technology, 25 April 2014. p. 353.

33. O. Mukbaniani, J. Aneli, T. Tatrishvili, E. Markarashvili. "Comb-Type methylsiloxane polymers: synthesis, properties application "Abstract Baltic Polymer Symposium 2014, Laulasmaa, Estonia September 24-26, 2014. p.19
34. E. Markarashvili, J. Aneli, T. Tatrishvili, O. Mukbaniani. "Functional comb-type organosiloxsane polymers". Abstract Baltic Polymer Symposium 2014, Laulasmaa, Estonia September 24-26, 2014. p.70.
35. Research Progress in Chemical Physics and Biochemical Physics: Pure and Applied Science. Editors: Gennady E. Zaikov, Alexander A. Berlin, Kryzsztof Majewski, Andrey A. Primerzin.Nova Science Publisher, USA, 2014, pp. 506. Chapter 4, „Hydrosilylation Reaction of methylhydrosiloxanes with Acrylates and Methacrylates and solid polymer electrolyte membranes on their basis", T. Tatrishvili, G. Titvinidze, N. Pirtskheliani, J. Aneli, G. Zaikov, O. Mukbaniani, pp. 159-177. http://www.alibris.com/Research-Progress-in-Chemical-Physics-Biochemical-Physics-Pure-Applied-Science-G-E-Zaikov/book/27278802
36. Research Progress in Chemical Physics and Biochemical Physics: Pure and Applied Science. Editors: Gennady E. Zaikov, Alexander A. Berlin, Kryzsztof Majewski, Andrey A. Primerzin. Nova Science Publisher, USA, 2014, pp. 506, Chapter 2, " Synthesis and investigation properties of epoxycontainig compounds and composite materials on their basis", E. Markarashvili, T. Tatrishvili, N. Koiava, G. Zaikov, J. Aneli, O. Mukbaniani, pp. 77-132. http://www.alibris.com/Research-Progress-in-Chemical-Physics-Biochemical-Physics-Pure-Applied-Science-G-E-Zaikov/book/27278802

2013

37. O. Mukbaniani, J. Aneli, I. Esartia, T. Tatrishvili, E. Markarashvili, N. Jalagonia. "Siloxane Oligomers with Epoxy Pendant Groups". Macromolec. Symposia, v.328, issue 1, p. 25-37, 2013. http://onlinelibrary.wiley.com/doi/10.1002/masy.201350603/abstract
38. O. Mukbaniani, K. Koynov, J. Aneli, T. Tatrishvili, E. Markarashvili, M. Chigvinadze. "Solid Polymer Electrolyte Membranes Based on Siliconorganic Backbone". Macromolec. Symposia, v.328, issue 1, p. 38-44, 2013. http://onlinelibrary.wiley.com/doi/10.1002/masy.201350604/abstract
39. T. Tatrishvili, O. Mukbaniani. Comb-type methylsiloxane oligomers with various ester side groups. Frontiers in Polymer Science, in association with the journal Polymer. Spain, Sitges, 21-23 May, 2013, P1.96. http://www.frontiersinpolymerscience.com/resources/downloads/Poster%20program_2013.pdf
40. I.G. Esartia, N.T. Jalagonia, T.N. Tatrishvili, E.G. Markarashvili, J.N. Aneli, O.V. Mukbaniani. „A new polysiloxane based cross-linker for solid polymer electrolytes. 9th International Symposium on Polyimides and High Performance Polymers & Materials, France, Montpelier, June 3-5, 2013, P12.
41. E.G. Markarashvili, T.N. Tatrishvili, J.N. Aneli, M.J.M. Abadie, O.V. Mukbaniani. Siloxane based polymer electrolytes with propylacetoacetate pendant groups. 9th

International Symposium on Polyimides and High Performance Polymers & Materials, France, Montpelier, June 3-5, 2013, P13.

42. Chemistry and Physics of Complex Materials Concepts and Applications, Editors: Maria Rajkiewicz, PhD Wiktor Tyskiewicz, PhD Zbigniew Wertejuk, PhD. Chapter 10: Composite Materials on the Basis of Epoxy Containing Organosilicon Compounds. E. Markarashvili, T. Tatrishvili, and N. Koiava, A. Berlin, G. Zaikov, J. Aneli, and O. Mukbaniani. 2013, pp. 395. http://www.appleacademicpress.com/title.php?id=9781926895604#bios
43. J.N. Aneli, O.V. Mukbaniani E.G. Markarashvili, L.G. Shamanauri.Electricity and modification of the mechanical properties of silicone rubber with a synergistic effect. A. Tsereteli State University dedicated to the 80th anniversary of the international scientific-practical conference "Innovative technologies and modern materials." Kutaisi June 6-7, 2013, p. 283-285. (In Georgian).
44. N. Jalagonia, I. Esartia, T. Tatrishvili, E. Markarashvili, J. Aneli, O. Mukbaniani. Synthesis and ionic conductivity of siloxane based polymer electrolytes Abstracts of communications of International Congress on Energy Efficiency and Energy Related Materials (ENEFM-2013., 9-12 October, 2013, Antalya Turkey, P86. http://www.enefm.org/images/poster.pdf
45. N. Jalagonia, I. Esartia, T. Tatrishvili, E. Markarashvili, J. Aneli, O. Mukbaniani. Siliconorganic backbone as a matrix for solid polymer electrolyte membranes. Abstracts of communications of International Congress on Energy Efficiency and Energy Related Materials (ENEFM-2013., 9-12 October, 2013, Antalya Turkey, P87. http://www.enefm.org/images/poster.pdf
46. N. Jalagonia, I. Esartia, E.Markarashvili, T.Tatrishvili, J. Aneli, L.Kalatozishvili, O. Mukbaniani. “Polymer Electrolyte Membranes on the Basis of Methylsiloxane Polymers with Cyanoacetate Side Groups”. Abstrats of communications of 3rd International Caucasian Symposium on Polymers and Advanced Materials. Tbilisi, Georgia 1-4 September, 2013, p. 55. http://www.tsu.edu.ge/icsp3/ABSTRACTS.pdf
47. N. Jalagonia, I. Esartia, T.N. Tatrishvili, K. Koynov, O.V. Mukbaniani. “Comb Type Methylsiloxane Block-copolymers”. 3rd International Caucasian Symposium on Polymers and Advanced Materials Tbilisi, Georgia 1-4 September, 2013, p. 82. http://www.tsu.edu.ge/icsp3/ABSTRACTS.pdf
48. J. Aneli, E. Markarashvili, T. Tatrishvili, M. Chigvinadze, O. mukbaniani. ,,Obtaining and Investigation of Polymer Electrolytes on the basis of Siliconorganic Polymers”. Abstrats of communications of 3rd International Caucasian Symposium on Polymers and Advanced Materials. Tbilisi, Georgia 1-4 September, 2013, p. 9. http://www.tsu.edu.ge/icsp3/ABSTRACTS.pdf
49. L.G. Shamanauri, J.N. Aneli, and L.G. Kiphiani, O.V. Mukbaniani. “Composites Based on Epoxy Resin and Modified Filler”. Abstrats of communications of 3rd International Caucasian Symposium on Polymers and Advanced Materials. Tbilisi, Georgia 1-4 September, 2013, p. 10. http://www.tsu.edu.ge/icsp3/ABSTRACTS.pdf
50. O. Mukbaniani, J. Aneli, E. Markarashvili, T. Tatrishvili ,,Synthesis and Investigation of Properties of Comb-type Organosilicon Polymers for Solid Polymer Electrolyte Membranes”. Abstrats of communications of 3rd International Caucasian Symposium on Polymers and Advanced Materials. Tbilisi, Georgia 1-4 September, 2013, p. 62. http://www.tsu.edu.ge/icsp3/ABSTRACTS.pdf

51. M. Iskakova, E. Markarashvili, O. Mukbaniani. „Composites on the Basis of Glycidoxygroup Containing Phenylsilsesquioxanes". Abstrats of communications of 3rd International Caucasian Symposium on Polymers and Advanced Materials. Tbilisi, Georgia 1-4 September, 2013, p. 93.
http://www.tsu.edu.ge/icsp3/ABSTRACTS.pdf
52. Advances in Sustainable Petrolium Engineering Science. Editors Khalid Aziz, Turgay Ertekin, Rafiq Islam. E. Markarashvili, T. Tatrishvili, N. Koiava, G. Zaikov, J. Aneli, O. Mukbaniani. Synthesis and investigation of properties of epoxy compounds and composites, Nova Science Publisher, 5(4), 211-275, 2013.
https://www.novapublishers.com/catalog/product_info.php?products_id=46271
53. J.N. Aneli, O.V. Mukbaniani, E.G. Markarashvili, T.N. Tatrishvili, M.Z. Chigvinadze. Synthesis and ionic conductivity of siloxane based polymer electrolytes with pendant propyl acetoacetate pendant groups. Abstracts of Communications, ISPO-2013, O-14.
http://www.ispm.ru/ispo-2013/files/program.pdf
54. J.N. Aneli, O.V. Mukbaniani, T.N. Tatrishvili, E.G. Markarashvili, N.A. Jalagania. Siliconorganic backbone as a matrix for solid polymer electrolyte membranes. Abstracts of Communications, ISPO-2013, P-3.
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55. J. Aneli, O. Mukbaniani, E. Markarashvili, G. Zaikov, E. Klodzinska. Polymer composites on the basis of epoxy resin with mineral fillers modified by tetraetoxysilane. Chemistry and Chemical Technology, 7(2), 141-145, 2013.
http://www.scopus.com/record/display.url?eid=2-s2.0-84880008895&origin=resultslist&sort=plf-f&src=s&st1=O.+Mukbaniani&sid=8223CDD98DCFA90FDF422D0149B306A8.y7ESLndDIsN8cE7qwvy6w%3a20&sot=b&sdt=b&sl=28&s=TITLE-ABS-KEY%28O.+Mukbaniani%29&relpos=0&relpos=0&citeCnt=0&searchTerm=TITLE-ABS-KEY%28O.+Mukbaniani%29

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56. J. Aneli, G. Zaikov and **O. Mukbaniani.** Physical Principles of the Conductivity of Electrical Conducting Polymer Composites (Review). *Mol. Cryst. Liq. Cryst.*, 2012, vol. 554: pp. 167–187. http://dx.doi.org/10.1080/15421406.2012.633864
57. J. N. Aneli, G. E. Zaikov & O. V. Mukbaniani. Electrical Conductivity of Polymer Composites During Mechanical Relaxation. Mol. Cryst. Liq. Cryst., 2012, vol. 554: pp. 160–166.
http://dx.doi.org/10.1080/15421406.2012.633864
58. O. Mukbaniani, J. Aneli, T. Tatrishvili, E. Markarashvili, M. Chigvinadze. "Solid polymer electrolyte membranes on the base of siliconorganic backbone", Abstracts of communications of POLYCHAR 20 - 20th World Forum on Advanced Materials, March 26-30, Dubrovnik, Croatia, p. 290, 2012.
59. O. Mukbaniani, J. Aneli, T. Tatrishvili, E. Markarashvili, M. Chigvinadze. "A new polysiloxane based cross-linker for solid polymer electrolytes". Abstracts of communications of S-Polymat 2012, Niderlands, Kerkrade, May 20-23 May, 2012
http://www.bmm-program.nl/library/DOCUMENTS/S-PolyMat-2012-Concept-program.pdf

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