

# Lusine Vladimir Karapetyan

**Faculty of Chemistry**  
Chair of Organic Chemistry  
Associate professor

☎ 34-05  
(060) 71-04-05

✉ lkarapetyan@ysu.am



## Education

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Chemistry
<b>Date</b>	1993 - 1996
<b>Degree name</b>	PhD student

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of public professions
<b>Date</b>	1990 - 1992
<b>Degree name</b>	Qualified specialist

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Chemistry
<b>Date</b>	1988 - 1993
<b>Degree name</b>	Qualified specialist

## Scientific Rank/degree

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<b>Institution</b>	Yerevan State University
<b>Date</b>	2015
<b>Degree name</b>	Associate professor
<b>Specialty</b>	Chemical sciences

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<b>Institution</b>	Yerevan State University
<b>Date</b>	2006
<b>Degree name</b>	Candidate
<b>Specialty</b>	Chemical sciences
<b>Scientific Supervisor</b>	Avetisyan Aida Avetis
<b>Research Topic</b>	Synthesis of new derivatives of unsaturated g-lactones and bicyclic systems containing g- and d-lactone rings

## Language skills

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Հայերեն Русский English

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## Work experience

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<b>Institution</b>	Yereva State University
<b>Period of time</b>	2018 till now
<b>Rank/degree</b>	Associate professor

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<b>Institution</b>	Yereva State University
<b>Period of time</b>	2012 till now
<b>Rank/degree</b>	Senior researcher

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<b>Institution</b>	Yereva State University
<b>Period of time</b>	2007 - 2017
<b>Rank/degree</b>	Professor's assistant

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<b>Institution</b>	Yereva State University
<b>Period of time</b>	1997 - 2007
<b>Rank/degree</b>	Laboratory assistant

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<b>Institution</b>	Yereva State University
<b>Period of time</b>	1997 - 2012
<b>Rank/degree</b>	Researcher

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## Scientific interests

- Chemistry of five- and six-membered saturated and unsaturated lactones and their derivatives, synthesis of biologically active compounds on their basis.
  - Chemistry of unsaturated iminolactones and their derivatives, synthesis of biologically active compounds on their basis.
  - Chemistry of Biologically Active Functionalized Pyridines
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## Participation in international conferences and seminars

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<b>12/12/2023 - 15/12/2023</b>	«Catalysis for a Sustainable World» II International scientific conference RUDN University Russian Federation (the)
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<b>24/09/2023 - 28/09/2023</b>	«New Emerging Trends in Chemistry» National Academy of Sciences, Yerevan State University, Scientific and Technological Center of Organic and Pharmaceutical Chemistry, Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences Armenia
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<b>07/10/2019 - 11/10/2019</b>	Armenian Chemical Society VI scientific conference (with international participation) "Challenges of the XXI century"
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**28/09/2017 - 30/09/2017** IV International Conference of Young Scientists "Biotechnology: Science and Practice"  
Institute of Armbiotechnology of RA NAS  
Armenia

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**03/10/2017 - 07/10/2017** V SCIENTIFIC CONFERENCE OF ARMENIAN CHEMICAL SOCIETY (with international participation) "Actual Problems of Fundamental and Applied Chemistry"  
RA NAS of Organic and Pharmaceutical Chemistry RT Center  
Armenia

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**18/10/2015 - 23/10/2015** International Congress on Heterocyclic Chemistry "KOST-2015"  
Moscow State University  
Russian Federation (the)

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## Publications

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### Article

**SYNTHESIS, MOLECULAR DOCKING AND in-vitro ANTIMICROBIAL ACTIVITY STUDY OF IMINODIHYDROFURANS CONTAINING 4-THIAZOLIDINONE RING [ СИНТЕЗ, МОЛЕКУЛЯРНЫЙ ДОКИНГ И ИЗУЧЕНИЕ in-vitro АНТИМИКРОБНОЙ АКТИВНОСТИ ИМИНОДИГИДРОФУРАНОВ, СОДЕРЖАЩИХ 4-ТИАЗОЛИДИНОВОЕ КОЛ**

G.G. Tokmajyan, L.V. Karapetyan, A.G. Sukiasyan, S.G. Chailyan, R. Kapavarapu, R.A. Madoyan

Известия высших учебных заведений. Серия: химия и химическая технология (Izvestiya Vysshikh Uchebnykh Zavedenii, Seriya Khimiya i Khimicheskaya Tekhnologiya) 2026 78-91

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### Article

**Efficient Synthesis and Biological Evaluation of 1,4-Disubstituted 3-Cyanopyridin-2(1H)-ones as Selective Inhibitors of the Post-Acid Activity of Mammalian 20S Proteasomes**

L. V. Karapetyan, G. G. Tokmajyan, G. S. Melikyan, M. Bouvier-Durand, M. Reboud-Ravaux, T. H. Pham

Russian Journal of Organic Chemistry (Журнал органической химии) 2025 449-455

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### Article

**Methods of synthesis of furan-2(5H)-ones**

Gayane G. Tokmajyan, Lusine V. Karapetyan

Chemistry of Heterocyclic Compounds 2025 73-100

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### Article

**Chemical transformations of furan-2(5H)-ones**

Gayane G. Tokmajyan, Lusine V. Karapetyan

Chemistry of Heterocyclic Compounds 2025 101-129

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### Article

**Synthesis of New Furan-2(5H)-one Derivatives Containing a 4-Oxothiazolidine Ring**

L. V. Karapetyan, G. G. Tokmajyan

*Article*

**Synthesis of New Derivatives of 2-Imino-2,5-dihydrofurans Containing 4-Oxothiazolidine Ring**

L.V. Karapetyan, G. G. Tokmajyan

Russian Journal of General Chemistry (Журнал общей химии) 2023 506-512

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*Article*

**Synthesis and Chemical Transformations of 2-imino-2,5-dihydrofurans**

Lousine V. Karapetyan, Gayane G. Tokmajyan

Chemistry of Heterocyclic Compounds 2022 371–383

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*Article*

**Synthesis of New Heterocyclic Systems Based on 2-Imino-2,5-dihydrofuran-3-carboxamides**

L. V. Karapetyan, G. G. Tokmajyan

Russian Journal of Organic Chemistry (Журнал органической химии) 2022 1250–1253

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*Article*

**Catalyst-Free Synthesis of New Iminodihydrofurans Containing Thiazolidinone Ring**

Lusine V. Karapetyan, Gayane G. Tokmajyan

ChemistrySelect 2022 e202202745

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*Article*

**Synthesis and Antibacterial Activity of New Polyheteroconjugated and Dinuclear Systems Based on N-Substituted 2-Imino-2,5-dihydrofuran-3-carboxamides**

L.V. Karapetyan, G.G. Tokmajyan, R.V. Paronikyan

Russian Journal of Organic Chemistry (Журнал органической химии) 2021 131-134

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*Article*

**Synthesis of New Polyconjugated Systems Containing Iminodihydrofuran and Benzene Rings**

L.V.Karapetyan, G.G.Tokmajyan

Russian Journal of Organic Chemistry (Журнал органической химии) 2021 661-663

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*Article*

**Synthesis and Antibacterial Activity of N-Substituted 2-(Benzylimino)-4-styryl-2,5-dihydrofuran-3-carboxamides**

L.V. Karapetyan, G.G. Tokmajyan, H. M. Stepanyan

Russian Journal of Organic Chemistry (Журнал органической химии) 2021 1974–1978.

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*Manual*

**ՄԱՆԴԻ ՔԻՄԻԱ: ՄԱՆԴԱՍԹԵՐՔԻ ԲԱՂԱԴՐՈՒԹՅԱՆ ԵՎ ՈՐԱԿԻ ՈՒՍՈՒՄՆԱՍԻՐՈՒԹՅՈՒՆ ԿԱՐԱԴԵՏՅԱՆ Լ.Վ., ԹՈՔՄԱՅՅԱՆ Գ.Գ.**

2021 92

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*Article*

**SYNTHESIS AND ANTIBACTERIAL ACTIVITY OF NEW DERIVATIVES OF 2-OXO-2,5-DIHYDROFURANS CONTAINING AN OXOTHIAZOLIDINYLDENE RING**

L.V. KARAPETYAN, G. G. TOKMAJYAN, R.V. PARONIKYAN, H. M. STEPANYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2020 12-16

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Article

**Interaction of 2-Imino-2,5-dihydrofuran-3-carboxamides with Anthranilic Acid**

L. V. Karapetyan, G. G. Tokmajyan

Russian Journal of Organic Chemistry (Журнал органической химии) 2020 1484-1487

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Article

**Reaction of 2-Imino-2,5-dihydrofuran-3-carboxamides with Benzaldehyde**

L. V. Karapetyana, G. G. Tokmajyan

Russian Journal of Organic Chemistry (Журнал органической химии) 2020 1844-1846

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Article

**2-(2,2-Диметил-5-оксотетрагидрофуран-3-ил)-N-(2-(2-цианоацетил)гидразинкарбонотиол)ацетамид.**

Л.В. Карапетян, Г.Г. Токмаджян

Синтезы гетероциклических соединений 2020 87-88

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Article

**2-(2-(2-Имино-4,5,5-триметил-2,5-дигидрофуран-3-карбонил)гидразоно)-4,5,5-триметил-2,5-дигидрофуран-3-карбоксамид**

Л.В. Карапетян, Г.Г. Токмаджян

Синтезы гетероциклических соединений 2020 95-96

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Article

**Synthesis of New Derivatives of 2-Imino-2,5-dihydrofuran-3- carboxamides, Containing Aromatic Substituents**

L. V. Karapetyan, G. G. Tokmajyan

Russian Journal of Organic Chemistry (Журнал органической химии) 2019 727-729

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Article

**Synthesis of Novel 2-(N-Substituted)imino-2,5-dihydrofuran- 3-carboxamides Containing a Thiourea Residue and an Oxothiazolidinylidene Ring**

L.V.Karapetyan, G.G. Tokmajyan, G. M. Makaryan

Russian Journal of Organic Chemistry (Журнал органической химии) 2019 1806-1808

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Article

**SYNTHESIS AND ANTIBACTERIAL ACTIVITY STUDIES OF NEW 2-N-SUBSTITUTED 2,5-DIHYDROFURANS**

L.V. KARAPETYAN, G.G. TOKMAJYAN, R.V. PARONIKYAN, H.M. STEPANYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2019 156-160

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Manual

**Սևնդի քիմիա**

ԹՈՔՄԱԶՅԱՆ Գ.Գ., ԿԱՐԱՊԵՏՅԱՆ Լ.Վ.

2019 190

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Article

**SYNTHESIS AND ANTIBACTERIAL ACTIVITY OF NEW COMPOUND COMPRISING BUTANOLIDE AND BENZIMIDAZOLE RINGS**

Karapetyan Lusine Vladimirovna, Tokmajyan Gayane Gevorkovna, Paronikyan Rima Vardkesovna,

Stepanyan Hrachya Movsesovich

*Article*

**SYNTHESIS AND ANTIBACTERIAL ACTIVITY STADIES OF NEW 2-N-SUBSTITUTED-2,5-DIHYDROFURAN-3-CARBOXAMIDES**

Karapetyan Lusine, Tokmajyan Gayane, Paronikyan Rima, Stepanyan Hrachya

POLISH SCIENCE JOURNAL 2018 7-11

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*Article*

**A Convenient and Efficient Approach for the Synthesis of New 2-Nsubstituted 2,5-dihydrofuran-3-carboxamides**

Gayane Tokmajyan, Lusine Karapetyan

Journal of Heterocyclic Chemistry 2017 1636-1639

[http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1943-5193](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1943-5193)

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*Article*

**Synthesis of New Bis-Iminodihydrofurans**

Gayane G.Tokmajyan, Lusine V. Karapetyan

Journal of the Brazilian Chemical Society 2016 967-970

<http://jbcs.sbq.org.br/>

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*Article*

**Selective Reduction of C=C Bond in Iminolactone Ring by a System Magnesium-Methanol**

G.G.Tokmajyan, L.V. Karapetyan

Russian Journal of Organic Chemistry (Журнал органической химии) 2016 759-761

<http://link.springer.com/journal/11178>

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*Article*

**SYNTHESIS OF NEW DERIVATIVES OF 5-OXOTETRAHYDROFURAN**

G.G. Tokmajyan, L.V. Karapetyan

Proceedings of the YSU B: Chemical and Biological Sciences 2015 14-17

<http://www.ysu.am/science/hy/journals>

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*Monograph*

**Չհազեցած միացությունների քիմիա**

Գ.Գ.Թոքմաջյան, Լ.Վ.Կարապետյան

2015 228

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*Article*

**СИНТЕЗ И НЕКОТОРЫЕ ХИМИЧЕСКИЕ ПРЕВРАЩЕНИЯ БИЦИКЛИЧЕСКИХ СОЕДИНЕНИЙ, СОДЕРЖАЩИХ КОНДЕНСИРОВАННЫЕ БУТАНОЛИДНОЕ И ОКСИРАНОВОЕ КОЛЬЦА**

А. А. Аветисян, Г. Г. Токмаджян, Л. В. Карапетян, Л. С. Балаян

Հայաստանի քիմիական հանդես 2010 101-106

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*Article*

**Синтез и некоторые химические превращения бициклических  $\gamma$ -лактонов, содержащих конденсированное циклопропановое кольцо**

А. А. Аветисян, Г. Г. Токмаджян, Л. В. Карапетян, Л. С. Балаян

Russian Journal of Organic Chemistry (Журнал органической химии) 2008 1822-1825

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Article

**Новый метод синтеза 2-функционально замещенных 2-бутен-4-олидов**

Ա. Ա. Ավետիսյան, Գ. Գ. Թոքմաջյան, Լ. Վ. Կարապետյան, Լ. Ս. Բալայան

ԵՊՀ Գիտական տեղեկագիր, Բնական գիտություններ 2005 84-87

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Conference

**SYNTHESIS OF NEW BIS-IMINODIHYDROFURANS**

Gayane G.Tokmajyan, Lusine V. Karapetyan

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Conference

**SYNTHESIS OF NEW DERIVATIVES OF SATURATED  $\gamma$ -LACTONES COMPRISING 5-OXOTETRAHYDROFURAN, AROMATIC, SULFAMOYL AND HETEROAROMATIC FRAGMENTS**

Karapetyan Lusine V., Tokmajyan Gayane G.

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Conference

**Synthesis and antibacterial activity of new 2-N-substituted 2,5-dihydrofurans**

L. Karapetyan, G. Tokmajyan

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Conference

**Synthesis and antibacterial activity of new compound comprising butanolide and benzimidazole rings**

L. Karapetyan, G. Tokmajyan

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Conference

**SYNTHESIS OF NEW 2-N-SUBSTITUTED 2,5-DIHYDROFURAN-3-CARBOXAMIDES**

L.V. Karapetyan, G.G. Tokmajyan

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Conference

**SYNTHESIS OF NEW DERIVATIVES OF 5-OXOTETRA-HYDROFURAN-3-CARBOXAMIDES**

L.V. Karapetyan, G.G. Tokmajyan

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Conference

**SYNTHESIS OF NEW 2-(BENZYLIMINO)-4-STYRYL- 2,5-DIHYDROFURAN-3-CARBOXAMIDES**

L.V. Karapetyan, G.G. Tokmajyan

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Conference

**SYNTHESIS OF NEW 2-AT-SUBSTITUTED 2,5-DIHYDROFURAN-3-CARBOXAMIDES**

G.G. Tokmajyan, L.V. Karapetyan

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Ematerial

**Զիազեցած միացությունների քիմիա**

Գ.Գ. Թոքմաջյան, Լ.Վ. Կարապետյան

177

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Ematerial

**Սևնդի քիմիա**

Թոքմաջյան Գ.Գ., Կարապետյան Լ.Վ.

130

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*Conference*

**SYNTHESIS OF NEW POLYCONJUGATED SYSTEMS CONTAINING IMINODIHYDROFURAN AND BENZENE RINGS**

Karapetyan L.V., Tokmajyan G.G.

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*Conference*

**SYNTHESIS OF POTENTIALLY BIOACTIVE 1,4-DISUBSTITUTED 3-CYANOPYRIDIN-2(1H)-ONES**

Karapetyan L.V., Tokmajyan G.G., Melikyan G. S.

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*Conference*

**A RAPID, CONVENIENT AND EFFICIENT APPROACH FOR THE SYNTHESIS OF NEW 2-N-SUBSTITUTED 2,5-DIHYDROFURANS**

L.V. Karapetyan, G. G. Tokmajyan

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*Conference*

**Synthesis of NEW Furan-2(5H)-one Derivatives, containing diverse heterocyclic systems**

Karapetyan L.V., Tokmajyan G.G.

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*Conference*

**A convenient synthesis of new 2-oxo-2,5-dihydrofuran derivatives**

Karapetyan V. L., Tokmajyan G. G.

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*Conference*

**Synthesis of Potentially Bioactive Functionalized Furopyrimidines**

Karapetyan L.V., Tokmajyan G.G., Mkrtchyan S.V.

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