

# Gayane Gevorg Tokmajyan

## Research Center for Chemistry

Օրգանական քիմիայի լաբորատորիա

Senior researcher

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✉ tokmajyang@ysu.am

## 🎓 Education

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<b>Institution</b>	Institute of Organic Chemistry NAS RA
<b>Faculty</b>	Fragrances Laboratory
<b>Date</b>	1973 - 1977
<b>Degree name</b>	PhD student

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Chemistry
<b>Date</b>	1968 - 1973
<b>Degree name</b>	Qualified specialist

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## 🎓 Scientific Rank/degree

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<b>Institution</b>	Yerevan State University
<b>Date</b>	2013
<b>Degree name</b>	Professor
<b>Specialty</b>	Chemical sciences

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<b>Institution</b>	Yerevan State University
<b>Date</b>	2012
<b>Degree name</b>	Doctor
<b>Specialty</b>	Chemical sciences
<b>Research Topic</b>	Investigations in the field of chemistry of 2-oxo-(2,5-dihydro-, tetrahydro)furans and 2-oxo-5,6-dihydropyrans

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<b>Institution</b>	Yerevan State University
<b>Date</b>	2002
<b>Degree name</b>	Associate professor
<b>Specialty</b>	Chemical sciences

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<b>Institution</b>	Yerevan State University
<b>Date</b>	1979
<b>Degree name</b>	Candidate
<b>Specialty</b>	Chemical sciences
<b>Scientific Supervisor</b>	Gevorkyan Alexandr

**Research Topic**                      Recyclization of 1,3-dioxanes to derivatives of di- and tetrahydropyrans and 5,6-dihydro-1,3-oxazines

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## **Language skills**

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Русский    Deutsch

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## **Work experience**

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**Institution**                      Yerevan State University  
**Period of time**                      2013 till now  
**Rank/degree**                      Professor

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**Institution**                      Yerevan State University  
**Period of time**                      2000 - 2013  
**Rank/degree**                      Associate Professor

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**Institution**                      Yerevan State University  
**Period of time**                      1990 till now  
**Rank/degree**                      Senior Researcher

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## **Scientific interests**

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- 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.
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## **Participation in international conferences and seminars**

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**07/10/2019 - 11/10/2019**                      Armenian Chemical Society VI scientific conference (with international participation) "Challenges of the XXI century"  
Organic and Pharmaceutical Chemistry RT Center of RA NAS  
Armenia

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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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## Membership

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<b>Institution</b>	Member of the Specialized Council 010 on Chemistry of the Supreme Certifying Committee of the RA at the RT Center of Organic and Pharmaceutical Chemistry of NAS RA
<b>Period of time</b>	2021 till now

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## Publications

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*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: ՄԱՆԴԱՍԹԵՐԻ ԲԱՂԱԴՐՈՒԹՅԱՆ ԵՎ ՈՐԱԿԻ ՌԻՍՈՒՄԱՍԻՐՈՒԹՅՈՒՆ ԿԱՐԱԴԵՏՅԱՆ Լ.Վ., ԹՈՔՄԱՋՅԱՆ 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.**

Լ.Վ. Կարապետյան, Գ.Գ. Կոկմաճյան

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**

Լ.Վ. Կարապետյան, Գ.Գ. Կոկմաճյան

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 Oxothiazolidinyldene 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

Научные горизонты 2018 195-200

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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

*Article*

**СИНТЕЗ АНИЛИНИЕВЫХ, МОРФОЛИНИЕВЫХ, ПИПЕРИДИНИЕВЫХ И ПИРИДИНИЕВЫХ СОЛЕЙ 2,3,4,5-ТЕТРАГИДРО- И 2,5-ДИГИДРО- -4,5,5-ТРИМЕТИЛ-2-ОКСОФУРАН-3-КАРБОНОВЫХ КИСЛОТ И ИЗУЧЕНИЕ ИХ АНТИМИКРОБНОЙ АКТИВНОСТИ**

Գ. Գ. ԹՈՔՄԱԴՋՅԱՆ, Ա. Ա. ՄՈՒՇԱԿԱՆՅԱՆ, Լ. Ս. ԲԱԼԱՅԱՆ, Մ. ԲԻԴԱՐ, Ր. Վ. ՓԱՐՈՆԻԿՅԱՆ

ԵՊՀ գիտական տեղեկագիր. Քիմիա և կենսաբանություն: 2011 35-38

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*Article*

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

Ա. Ա. ԱՎԵՏԻՅԱՆ, Գ. Գ. ԹՈՔՄԱԴՋՅԱՆ, Լ. Վ. ԿԱՐԱՔԵՏՅԱՆ, Լ. Ս. ԲԱԼԱՅԱՆ

Հայաստանի քիմիական հանդես 2010 101-106

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*Article*

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

Ա. Ա. ԱՎԵՏԻՅԱՆ, Գ. Գ. ԹՈՔՄԱԴՋՅԱՆ, Լ. Վ. ԿԱՐԱՔԵՏՅԱՆ, Լ. Ս. ԲԱԼԱՅԱՆ

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**

Ս. Ս. ԱՎԵՏԻՅԱՆ, Գ. Գ. ԹՈՔՄԱԴՋՅԱՆ, Լ. Վ. ՇԱՐԱՔԵՏՅԱՆ, 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

**Կենցաղային քիմիա**

Գ.Գ.Թոքմայան

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Ematerial

**Չհագեցած միացությունների քիմիա**

Գ.Գ. Թոքմայան, Լ.Վ. Կարապետյան

177

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Ematerial

**Սևնդի քիմիա**

Թոքմայան 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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