

Gayane Gevorg Tokmajyan

Research Center of Chemistry

Օրգանական քիմիայի լաբորատորիա

Senior researcher

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🎓 Education

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

Institution	Yerevan State University
Faculty	Faculty of Chemistry
Date	1968 - 1973
Degree name	Qualified specialist

🎓 Scientific Rank/degree

Institution	Yerevan State University
Date	2013
Degree name	Professor
Specialty	Chemical sciences

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

Institution	Yerevan State University
Date	2002
Degree name	Associate professor
Specialty	Chemical sciences

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

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

Language skills

Русский Deutsch

Work experience

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

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

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

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.
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Participation in international conferences and seminars

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

28/09/2017 - 30/09/2017 IV International Conference of Young Scientists "Biotechnology: science and practice"
Institute of Armbiotechnology of RA NAS
Armenia

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

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

Membership

Institution	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
Period of time	2021 till now

Publications

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

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

Article

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

Gayane G. Tokmajyan, Lusine V. Karapetyan

Chemistry of Heterocyclic Compounds 2025 73-100

Article

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

Gayane G. Tokmajyan, Lusine V. Karapetyan

Chemistry of Heterocyclic Compounds 2025 101-129

Article

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

L. V. Karapetyan, G. G. Tokmajyan

Russian Journal of Organic Chemistry (Журнал органической химии) 2024 650-654

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

Article

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

Lousine V. Karapetyan, Gayane G. Tokmajyan

Chemistry of Heterocyclic Compounds 2022 371-383

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

Article

Catalyst-Free Synthesis of New Iminodihydrofurans Containing Thiazolidinone Ring

Lusine V. Karapetyan, Gayane G. Tokmajyan

ChemistrySelect 2022 e202202745

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

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

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.

Manual

ՄԱՆԴԻ ԶԻՄԻԱ: ՄԱՆԴԱՍԹԵՐԶԻ ԲԱՂԱԴՐՈՒԹՅԱՆ ԵՎ ՈՐԱԿԻ ՌԻՍԻՄԱՍԻՐՈՒԹՅՈՒՆ ԿԱՐԱՊԵՏՅԱՆ Լ.Վ., ԹՈՔՄԱՋՅԱՆ Գ.Գ.

2021 92

Article

SYNTHESIS AND ANTIBACTERIAL ACTIVITY OF NEW DERIVATIVES OF 2-OXO-2,5-DIHYDROFURANS CONTAINING AN OXOTHIAZOLIDINYLIDENE 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

Article

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

L. V. Karapetyan, G. G. Tokmajyan

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

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

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

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

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

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

Manual

Սևնդի քիմիա

ԹՈՔՄԱԶՅԱՆ Գ.Գ., ԿԱՐԱՊԵՏՅԱՆ Լ.Վ.

2019 190

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

Article

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

Karapetyan Lusine, Tokmajyan Gayane, Paronikyan Rima, Stepanyan Hrachya

POLISH SCIENCE JOURNAL 2018 7-11

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)

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/>

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>

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.y-su.am/science/hy/journals>

Monograph

Չհագեցած միացությունների քիմիա

Գ.Գ.Թոքմաճյան, Լ.Վ.Կարապետյան

2015 228

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. ԹՈՔՄԱԺՅԱՆ, Ա. Ա. ՄՆԱՇԱԿԱՆՅԱՆ, Լ. Ս. ԲԱԼԱՅԱՆ, Մ. ԲԻԴԱՐ, Ր. Վ. ՓԱՐՈՆԻԿՅԱՆ

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

Article

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

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

Հայաստանի քիմիական հանդես 2010 101-106

Article

Синтез и некоторые химические превращения бициклических γ -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

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

Conference

SYNTHESIS OF NEW BIS-IMINODIHYDROFURANS

Gayane G.Tokmajyan, Lusine V. Karapetyan

Conference

SYNTHESIS OF NEW DERIVATIVES OF SATURATED γ -LACTONES COMPRISING 5-OXOTETRAHYDROFURAN, AROMATIC, SULFAMOYL AND HETEROAROMATIC FRAGMENTS

Karapetyan Lusine V., Tokmajyan Gayane G.

Conference

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

L. Karapetyan, G. Tokmajyan

Conference

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

L. Karapetyan, G. Tokmajyan

Conference

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

L.V. Karapetyan, G.G. Tokmajyan

Conference

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

L.V. Karapetyan, G.G. Tokmajyan

Conference

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

L.V. Karapetyan, G.G.Tokmajyan

Conference

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

G.G. Tokmajyan, L.V. Karapetyan

Ematerial

Կենցաղային քիմիա

Գ.Գ.Թոքմաջյան

Ematerial

Զիազեցած միացությունների քիմիա

Ematerial

Սևնդի քիմիա

Թոքմաջյան Գ.Գ., Կարապետյան Լ.Վ.,

130

Conference

SYNTHESIS OF NEW POLYCONJUGATED SYSTEMS CONTAINING IMINODIHYDROFURAN AND BENZENE RINGS

Karapetyan L.V., Tokmajyan G.G.

Conference

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

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

Conference

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

L.V. Karapetyan, G. G. Tokmajyan

Conference

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

Karapetyan L.V., Tokmajyan G.G.

Conference

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

Karapetyan V. L., Tokmajyan G. G.

Conference

Synthesis of Potentially Bioactive Functionalized Furoprimidines

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