Ashkhen Lerniki Zatikyan

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Research Center of Chemistry
Ֆիզիկական քիմիայի լաբորատորիա
Senior Researcher
Faculty of Chemistry
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Ֆիզիկական քիմիայի լաբորատորիա
Senior Researcher
Faculty of Chemistry
Chair of Physical and Colloid Chemistry
Assistant

Education

Institution	Yerevan State University
Faculty	Faculty of Chemistry, Department of Physical and Colloid Chemistry
Date	2001 - 2005
Degree name	PhD student

Institution	Yerevan State University
Faculty	Faculty of Chemistry, Department of Physical and Colloid Chemistry
Date	1999 - 2001
Degree name	Masters

Institution	Yerevan State University
Faculty	Faculty of Chemistry
Date	1995 - 1999
Degree name	Bachelor

Scientific Rank/degree

Institution	Yerevan State University
Date	2011
Degree name	Candidate
Scientific Supervisor	Sh.A. Markarian
Research Topic	“The Structural and Thermodynamic Study of Diethylsulfoxide Aqueous Solutions”

Language skills

Հայերեն Русский English

Publications

Article

Synthesis, theoretical and photophysical study of functionalized quinoline - Based schiff bases

Ashkhen L. Zatikyan, Karine R. Grigoryan, Hasmik A. Shilajyan, Lilit P. Hambardzumyan,

Iskuhi L. Aleksanyan

Journal of Molecular Structure 2026 144706

Article

Dimethyl Sulfoxide-Coordinated lead chloride complex, Pb2Cl4·3DMSO.

Gayane S. Tonoyan, Gerald Giester, Ashkhen L. Zatikyan, Vahram V. Ghazaryan

ACS Omega 2026 13342 - 13352

https://doi.org/10.1021/acsomega.5c10428

Article

Iodides and polyiodides of L-arginine

A.L. Zatikyan, A.M. Petrosyan, G. Giester, G.S. Tonoyan, R.Yu. Chilingaryan, A.A. Margaryan,

A.H. Mkrtchyan

Journal of Molecular Structure 2025 139688

Article

Preparation and characterization of l-cystinium(2+) bis-iodide monohydrate and l-cystinium(2+) bis-triiodide

Ashkhen L. Zatikyan, Aram M. Petrosyan, Gerald Giester, Milena S. Petrosyan, Vahram V. Chazaryan

Structural Chemistry 2025 12

Article

Bromo- and iodobismuthates of l-proline with a (A+···A+) type dimeric and a new type of tetrameric cations

Ashkhen L. Zatikyan, Aram M. Petrosyan, Vahram V. Ghazaryan, Gerald Giester

Structural Chemistry 2025 1-14

Article

ANTIOXIDANT PROPERTIES AND BINDING INTERACTIONS OF 1-MORPHOLIN-4-YL-3-{[2-(3-NITROPHENYL)-2-OXOETHYL]THIO}-5,6,7,8-TETRAHYDROISOQUINOLINE-4-CARBONITRILE WITH BOVINE SERUM ALBUMIN

K. R. GRIGORYAN, A. V. IGITYAN, H. H. VARDANYAN, Zh. G. KHACHATRYAN, A. S. HARUTYUNYAN,

A. L. ZATIKYAN, H. A. SHILAJYAN

Proceedings of the YSU B Chemical and Biological Sciences 2025 57-66

Conference

Effect of Polystyrene Nanoparticles on Gangleron Binding to Bovine Serum Albumin

Grigoryan K.R., Zatikyan A.L., Grigoryan Z.L., Gabrielyan A.A., Shilajyan H.A.

2025 177 - 177

https://newtrendschem.org/

Conference

Discovery of asymmetric(L-Orn(H)-H-L-OrnH) (3+)-cation in the structure of (L-Orn(H)-H-L-OrnH)(I3)3•4H2O

Ashkhen Zatikyan, Milena Petrosyan, Aram Petrosyan, Vahram Ghazaryan, Gerald Giester

2025 9 - 9

https://indico.cern.ch/event/1525866/

Conference

Mixed Salts of Amino Acids with Different Anions Incorporating Hexaiodobismuthate Anion
Zatikyan A.L., Ghazaryan V.V., Tonoyan G.S., Petrosyan A.M., Giester G.

2025 78 - 78

https://newtrendschem.org

Conference

The first halogenobismuthate salt containing two different amino acids
Zatikyan A.L., Ghazaryan V.V., Tonoyan G.S., Gevorkyan G.K., Petrosyan A.M., Giester G.

2025 96 - 96

https://newtrendschem.org/

Conference

Polyiodides of L-ornithine
Zatikyan A.L., Petrosyan M.S., Ghazaryan V.V., Petrosyan M.A., Giester G.

2025 242 - 242

https://newtrendschem.org/

Conference

Halogenobismuthate Salts Containing Different Amino Acids
A. L. Zatikyan, A. M. Petrosyan, V. V. Ghazaryan, G. S. Tonoyan, G. K. Gevorkyan, G. Giester

2025 49 - 49

https://iappconfschool.am/

Article

Polyiodides of amino acids. Betainium triiodide
A.L. Zatikyan, A.M. Petrosyan, G.S. Tonoyan, V.V. Ghazaryan, G. Giester, M. Szafra´nski

Journal of Molecular Structure 2024 136960

Article

Formation of zinc oxide composites of doxycycline with high antibacterial activity based on DC-magnetron deposition of ZnO nanoscale particles on the drug surface
Ashkhen L. Zatikyan, Armen I. Martiryan, Emma R. Arakelova, Ashot M. Khachatryan, Anait A. Mirzoian,

Susanna L. Grigoryan, Rafayel E. Muradyan, Hrachik R. Stepanyan, Stepan G. Grigoryan,

Mcrtich A. Yeranosyan
Applied Physics A 2024 152

Article

Polyiodides of amino acids. l-proline triiodides
Ashkhen L. Zatikyan, Vahram V. Ghazaryan, Aram M. Petrosyan, Gerald Giester

Structural Chemistry 2024 1-11

Article

Effect of bovine serum albumin on gallic acid and tannic acid radical scavenging properties and binding kinetics with 2,2-diphenyl-1-picrylhydrazyl
Ashkhen Zatikyan, Karine Grigoryan, Hasmik Shilajyan, Ioannis Savvaidis, Liana Mkhitaryan

Process Biochemistry 2024 30-38

Article

Hexahalogenobismuthates of Glycine
Ashkhen L. Zatikyan, Vahram V. Ghazaryan,, Gerald Giester, Gayane S. Tonoyan, Aram M. Petrosyan

Journal of Physics Conference Series 2024 012012

Conference

Hexahalogenobismuthates of Glycine
A.L. Zatikyan, V.V. Ghazaryan, G. Giester, G.S. Tonoyan, A.M. Petrosyan

2024 33 - 33

http://school.iapp.am

Conference

Tetrahalogenobismuthates of Dimethylglycine
A.L. Zatikyan, G. Giester, V.V. Ghazaryan, G.S. Tonoyan, A.M. Petrosyan

2024 32

http://school.iapp.am

Conference

DFT AND EXPERIMENTAL UV/Vis SPECTRA OF SELECTED AZO DYES
Petrosyan S., Papanyan Z., Zatikyan A., Gabrielyan L.

2023 268 - 268

https://newtrendschem.org/

Conference

Growth and characterization of halogenobismuthates of amino acids
Zatikyan AL, Petrosyan AM, Ghazaryan VV, Tonoyan GS, Giester G, Mkrtchyan AH, Szafrański M

2023 57

https://www.iccge20.org/

Conference

Polyiodides of amino acids
Zatikyan AL, Petrosyan AM, Petrosyan MS, Tonoyan GS, Ghazaryan VV, Giester G

2023 58

https://www.iccge20.org/

Conference

DFT STUDY ON THE EFFECT OF HYDROXYL GROUPS ON THE STRUCTURE AND REACTIVITY OF 2-METHYLQUINOLIN-4-OL DERIVATIVES
Zatikyan A., Grigoryan K.

2023 341 - 341

https://newtrendschem.org/

Conference

ԱՄԻՆՈԹԹՈՒՆԵՐԻ ՆՈՐ ՀԱԼՈԳԵՆԱՍՏԱՆԱՏՆԵՐ, ՀԱԼՈԳԵՆԱԲԻՍՄՈՒԹԱՏՆԵՐ ԵՎ ՊՈԼԻՅՈԴԻԴՆԵՐ
Ջատիկյան Ա.Լ., Պետրոսյան Ա.Մ., Գիստեր Ջ., Ղազարյան Վ.Վ., Տոնոյան Գ.Ս., Շաֆրանսկի Մ.,

Չիլինգարյան Ռ.Յ., Մարգարյան Ա.Ա., Աբրահամյան Ա.Ս., Մկրտչյան Ա.Հ.

2023 44-45

https://www.ysu.am/conference/770

Article

FTIR ATR SPECTRAL AND THEORETICAL VIBRATIONAL STUDIES OF URACIL IN DIMETHYLSULFOXIDE OR DIETHYLSULFOXIDE SOLUTIONS

A.L. Zatikyan, Sh.A. Markarian

Journal of Structural Chemistry 2022 388-406

Article

Spectroscopic analysis of 2-(5-mercapto-1,3,4-oxadiazol-2-yl)-6-methylquinolin-4-ol binding to blood plasma albumin.

Karine R. Grigoryan, Hasmik A. Shilajyan, Ashkhen Zatikyan, Iskuhi Aleksanyan, Lilit Hambardzumyan

MONATSHEFTE FUR CHEMIE 2022 507-515

Conference

THEORETICAL STUDY ON THE MOLECULAR STRUCTURE OF 4-HYDROXY-2-METHYL-6-AMINOQUINOLINE

Zatikyan Ashkhen, Grigoryan Karine

2022 69-70

https://polychar-28.ysu.am/announcment/

Conference

Structural Peculiarities of L-Tyrosine Associates in Dimethylsulfoxide Aqueous Solutions

Zatikyan A.L., Shilajyan H.A., Grigoryan K.R.

2021 100

http://cluster.isc-ras.ru/

Article

Effect of monovalent ions on the thermal stability of bovine serum albumin in dimethylsulfoxide aqueous solutions. Spectroscopic approach

Karine Grigoryan, Ashkhen Zatikyan, Hasmik Shilajyan

Journal of Biomolecular Structure and Dynamics 2020 1-15

Article

Ab initio исследования комплкексообразования галловой кислоты в водных растворах

К.Р. Григорян, А.Л. Затикян

Журнал структурной химии (Journal of Structural Chemistry) 2018 1544-1551

Conference

FT-IR ATR STUDY OF URACIL IN DIMETHYLSULFOXIDE SOLUTIONS

Zatikyan A.L., Markarian S.A.

2018 224

http://cluster.isc-ras.ru./

Conference

ТЕРМИЧЕСКАЯ ДЕНАТУРАЦИЯ БЫЧЬЕГО СЫВОРОТОЧНОГО АЛЬБУМИНА В РАСТВОРАХ ВОДА – ДИМЕТИЛСУЛЬФОКСИД В ПРИСУТСТВИИ LiCl И LiClO4

Григорян К.Р.,, Шиладжян А.А., Затикян А.Л.

2018 230

http://cluster.isc-ras.ru/

Conference

Теоретические исследования межмолекулярных взаимодействий водных растворов галловой кислоты
А.Л. Затикян, К.Р. Григорян

2017 196

http://chugaev2017.iomc.ras.ru/en/

Article

EXPERIMENTAL AND THEORETICAL STUDIES ON THE SOLVATION OF POTASSIUM AND CHLORINE IONS IN AQUEOUS DIMETHYLSULFOXIDE SOLUTIONS
K. R. Grigoryan, A. A.Shilajyan, A. L. Zatikyan

Journal of Structural Chemistry 2015 662-666

http://www.springer.com/chemistry/inorganic+chemistry/journal/10947

Conference

Medium effect on hydrogen bonded complexes of L-ascorbic acid with diethylsulfoxide: quantum chemical calculations
A.L. Zatikyan, S.A.Markarian

2015 159-160

http://solvation.isc-ras.ru/

Conference

Ab initio study of molecular interactions in ascorbic acid dimethylsulfoxides/water mixture
A.L. Zatikyan, S.A.Markarian

2015 201-202

http://chph.sci.am/conference/IChPh2015.html

Conference

Experimetnal and theoretical studies on competetive interactions in gallic acid – water system
L.S. Sargsyan, K.R. Grigoryan, A.L. Zatikyan

2015 204-205

http://chph.sci.am/conference/IChPh2015.html
