

Ashkhen Lerniki Zatikyan

Research Center of Chemistry

Ֆիզիկական քիմիայի լաբորատորիա
Senior researcher

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Education

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| Institution | YSU |
| Faculty | Faculty of Chemistry, Department of Physical and Colloid Chemistry |
| Date | 2001 - 2005 |
| Degree name | PhD student |

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| Institution | YSU |
| Faculty | Faculty of Chemistry, Department of Physical and Colloid Chemistry |
| Date | 1999 - 2001 |
| Degree name | Masters |

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|--------------------|----------------------|
| Institution | YSU |
| Faculty | Faculty of Chemistry |
| Date | 1995 - 1999 |
| Degree name | Bachelor |

Scientific Rank/degree

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|------------------------------|--|
| Institution | Yerevan State University |
| Date | 2011 |
| Degree name | Candidate |
| Specialty | Chemical sciences |
| 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

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 I-cystinium(2+) bis-iodide monohydrate and I-cystinium(2+) bis-triiodide

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

Structural Chemistry 2025 12

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

Article

Bromo- and iodobismuthates of I-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

Polyiodides of amino acids. I-proline triiodides

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

Structural Chemistry 2024 1-11

Article

Polyiodides of amino acids. Betainium triiodide

A.L. Zatikyan, A.M. Petrosyan, G.S. Tonoyan, V.V. Ghazaryan, G. Giester, M. Szafranski

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,

Mkrtich A. Yerosyan

Applied Physics A: Materials Science and Processing 2024 152

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 Mkhitarian

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

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

MONATSCHEFTE FUR CHEMIE 2022 507-515

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 комплексообразования галловой кислоты в водных растворах

К.Р. Григорян, А.Л. Затикян

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

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

Conference

Ab initio study of molecular interactions in ascorbic acid dimethylsulfoxides/water mixture

A.L. Zatikyan, S.A. Markarian

Conference

Experimetal and theoretical studies on competetive interactions in gallic acid - water

system

L.S. Sargsyan, K.R. Grigoryan, A.L. Zatikyan

*Conference***Теоретические исследования межмолекулярных взаимодействий водных растворов галловой кислоты**

А.Л. Затикян, К.Р. Григорян

*Conference***FT-IR ATR STUDY OF URACIL IN DIMETHYLSULFOXIDE SOLUTIONS**

Zatikyan A.L., Markarian S.A.

*Conference***ТЕРМИЧЕСКАЯ ДЕНАТУРАЦИЯ БЫЧЬЕГО СЫВОРОТОЧНОГО АЛЬБУМИНА В РАСТВОРАХ ВОДА - ДИМЕТИЛСУЛЬФОКСИД В ПРИСУТСТВИИ LiCl И LiClO₄**

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

*Conference***Structural Peculiarities of L-Tyrosine Associates in Dimethylsulfoxide Aqueous Solutions**

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

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

Zatikyan Ashkhen, Grigoryan Karine

*Conference***DFT AND EXPERIMENTAL UV/Vis SPECTRA OF SELECTED AZO DYES**

Petrosyan S., Papanyan Z., Zatikyan A., Gabrielyan L.

*Conference***DFT STUDY ON THE EFFECT OF HYDROXYL GROUPS ON THE STRUCTURE AND REACTIVITY OF 2-METHYLQUINOLIN-4-OL DERIVATIVES**

Zatikyan A., Grigoryan K.

*Conference***ԱՄԻՆՈԹԻՈՒՆԵՐԻ ՆՈՐ ՀԱՆՈԳԵԼԱՍՏԱՆԱՏՆԵՐ, ՀԱՆՈԳԵԼԱԲԻՍՍՈՒԹԱՏՆԵՐ ԵՎ ՊՈԼԻՅՈՒՂԻՆԵՐ**

Չատիկյան Ա.Լ., Պետրոսյան Ա.Մ., Գիստեր Զ., Ղազարյան Վ.Վ., Տոնոյան Գ.Ս., Շաֆրանսկի Մ.,

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

*Conference***Growth and characterization of halogenobismuthates of amino acids**

Zatikyan AL, Petrosyan AM, Ghazaryan VV, Tonoyan GS, Giester G, Mkrtchyan AH, Szafranski M

*Conference***Polyiodides of amino acids**

Zatikyan AL, Petrosyan AM, Petrosyan MS, Tonoyan GS, Ghazaryan VV, Giester G

Conference

Hexahalogenobismuthates of Glycine

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

Conference

Tetrahalogenobismuthates of Dimethylglycine

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

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.

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.

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.

Conference

Polyiodides of L-ornithine

Zatikyan A.L., Petrosyan M.S., Ghazaryan V.V., Petrosyan M.A., Giester G.

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

Conference

Halogenobismuthate Salts Containing Different Amino Acids

A. L. Zatikyan, A. M. Petrosyan, V. V. Ghazaryan, G. S. Tonoyan, G. K. Gevorkyan, G. Giester
