

# Ashkhen Lerniki Zatikyan

## Research Center for Chemistry

Ֆիզիկական քիմիայի լաբորատորիա  
Senior researcher

☎ 38-57

✉ ashkhen@ysu.am



## 🎓 Education

<b>Institution</b>	YSU
<b>Faculty</b>	Faculty of Chemistry, Department of Physical and Colloid Chemistry
<b>Date</b>	2001 - 2005
<b>Degree name</b>	PhD student

<b>Institution</b>	YSU
<b>Faculty</b>	Faculty of Chemistry, Department of Physical and Colloid Chemistry
<b>Date</b>	1999 - 2001
<b>Degree name</b>	Masters

<b>Institution</b>	YSU
<b>Faculty</b>	Faculty of Chemistry
<b>Date</b>	1995 - 1999
<b>Degree name</b>	Bachelor

## 🎓 Scientific Rank/degree

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

## 🌐 Language skills

Հայերեն Русский English

## 📖 Publications

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

**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,

Mertich 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

**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. Затикиан

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*

**ԱՄԻՆՈԹՅՈՒՆԵՐԻ ՆՈՐ ՀԱՆՈԳԵԼԱՍՏԱԼԱՏՆԵՐ, ՀԱՆՈԳԵԼԱԲԻՍՍՈՒԹԱՏՆԵՐ ԵՎ ՊՈԼԻՅՈՂԻՂՆԵՐ**

Չատիկյան Ա.Լ., Պետրոսյան Ա.Ս., 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

---