Hasmik Avetik Shilajyan

Faculty of Chemistry
Office of the Faculty of Chemistry
Head of Office - Deputy Dean

Faculty of Chemistry
Office of the Faculty of Chemistry
Head of Office - Deputy Dean

Faculty of Chemistry
Chair of Physical and Colloid Chemistry
Lecturer

Faculty of Chemistry
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Scientific Worker

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Education

Institution	Yerevan State University
Faculty	Chemistry
Date	2010 - 2015
Degree name	Applicant

Institution	Yerevan State University
Faculty	Chemistry
Date	2007 - 2009
Degree name	Masters

Institution	Yerevan State University
Faculty	Chemistry
Date	2003 - 2007
Degree name	Bachelor

Scientific Rank/degree

Institution	Yerevan State University
Date	2015
Degree name	PhD
Scientific Supervisor	Grigoryan Karine
Research Topic	The Effect of Electrolytes on Physicolchemical Properties of Serum Albumin-Water-Dialkylsulfoxide Systems

Language skills

Հայերեն Русский English

Work experience

Institution	Yerevan State University
Period of time	2025 till now
Rank/degree	head of the office-deputy dean

Publications

Article

Spectroscopic and DFT studies of 3-(m-nitrophenyl)-4-allyl-5-mercapto-1,2,4-triazole and 3-furyl-4-allyl-5-mercapto-1,2,4-triazole

Liana Gabrielyan, Karine Grigoryan, Hasmik Shilajyan, Melanya Samvelyan, Gevorg Grigoryan,

Tariel Ghochikyan

Next Materials 2026 101424

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

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/

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

THE IMPACT OF AGING ON THE ANTIOXIDANT PROPERTIES OF ARMENIAN GRAPE BRANDIES
K. R. Grigoryan, H. A. Shilajyan

Proceedings of the YSU B Chemical and Biological Sciences 2024 107-113

Article

MOLECULAR INTERACTIONS OF L-TYROSINE IN DIMETHYL SULFOXIDE AQUEOUS SOLUTIONS. PART 1: ELECTRONIC ABSORPTION AND FLUORESCENCE SPECTROSCOPY STUDIES
K.R. Grigoryan, H.A. Shilajyan, R.G. Harutyunyan

Proceedings of the YSU B Chemical and Biological Sciences 2023 1-7

Article

Study of complexation of single-stranded poly(rA) and poly(rU) with methylene blue
Poghos O. Vardevanyan, Ara P. Antonyan, Zvart H. Movsisyan, Marine A. Parsadanyan,

Mariam A. Shahinyan, Karine R. Grigoryan, Hasmik A. Shilajyan

Journal of Biomolecular Structure and Dynamics 2023 15320-15327

Conference

STUDY ON SOLVENT- MEDIATED RADICAL SCAVENGING ACTIVITY OF MORIN TOWARDS 2, 2-DIPHENYL-1- PICRYLHYDRAZYL
Grigoryan K. R., Shilajyan H., Mkhitaryan L., Harutyunyan R., Khachatryan Zh.

2023 164 - 164

https://newtrendschem.org/

Article

Citrullination of adenosine deaminase impairs its binding to dipeptidyl peptidase IV
Luiza Karapetyan, Svetlana Sharoyan, Sona Mardanyan, Giulio Lupidi, Massimiliano Cuccioloni,

Mauro Angeletti, Shiraz Markarian, Hasmik Shilajyan, Alvard Antonyan

Biophysical Chemistry 2022 106820

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

Article

FLUORESCENCE STUDIES ON THE BLOOD PLASMA ALBUMIN INTERACTION WITH 4-HYDROXY-2-METHYLQUINOLINE
K. R. GRIGORYAN, H. A. SHILAJYAN, I. L. ALEKSANYAN, L. P. HAMBARDZUMYAN, H. H. HOVHANNISYAN

Proceedings of the YSU B Chemical and Biological Sciences 2022 100-107

Conference

FLUORESCENCE PROPERTIES OF 2-METHYLQUINOLIN-4-OL AND ITS MERCAPTO-OXADIAZOLYL DERIVATIVE IN DIMETHYLSULFOXIDE AQUEOUS SOLUTIONS
Hasmik Shilajyan, Karine Grigoryan, Iskuhy Aleksanyan, Zara Grigoryan, Lilit Hambardzumyan

2022 81-82

https://polychar-28.ysu.am/%D5%A3%D5%AC%D5%AD%D5%A1%D5%BE%D5%B8%D6%80/

Conference

ОСОБЕННОСТИ СВЯЗЫВАНИЯ МЕТИЛЕНОВОГО СИНЕГО С ОДНОЦЕПОЧЕЧНЫМИ

СИНТЕТИЧЕСКИМИ ПОЛИНУКЛЕОТИДАМИ POLY(rA) И POLY(rU)
Антонян А.П., Парсаданян М.А., Мовсесян З.О., Шиладжян А.А., Григорян К.Р., Вардеванян П.О

2022 103-104

https://www.chph.ras.ru/index.php/novosti-o-konferentsiyakh-i-seminarakh/1009-x...

Article

THE EFFECT OF DIMETHYLSULFOXIDE ON THE FLUORESCENCE PROPERTIES OF SOME 4-HYDROXYQUINOLINES
Karine R. Grigoryan, Hasmik A. Shilajyan, Iskuhi L. Aleksanyan, Zara L. Grigoryan,

Lilit P. Hambardzumyan

Proceedings of the YSU B Chemical and Biological Sciences 2021 112-117

Conference

Fluorescence Study of 2-(5-Mercapto-1,3,4-oxadiazol-2-yl)-6-methylquinoline-4-ol binding to Bovine Serum Albumin
Grigoryan K.R., Shilajyan H.A., Aleqsanyan I.L., Hambardzumyan L.P., Hovhannisyan H.H.

2021 112-113

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

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

UV/Vis and fluorescence study on the interaction of Ni(II) complex of Schiff base of glycine and chiral auxiliary (S)-2-[N-(N′-benzylprolyl)- amino]benzophenone with bovine serum albumin
Hasmik A. Shilajyan, Karine R. Grigoryan

MONATSHEFTE FUR CHEMIE 2020 135-139

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

BOVINE SERUM ALBUMIN FLUORESCENCE QUENCHING BY TANNIC ACID IN DIMETHYLSULFOXIDE CONTAINING SOLUTIONS
K. R. GRIGORYAN, H. A. SHILAJYAN, V. A. HOVHANNISYAN

Proceedings of the YSU B Chemical and Biological Sciences 2020 99-104

Conference

Флуоресценция комплексов альбумин-танин в смешанных растворителях вода-диметилсульфоксид.
К.Р. Григорян, А.А. Шиладжян, В. А. Оганисян

2020 123-124

https://www.kubsu.ru/en/node/26755

Article

FLUORESCENCE STUDY ON TRYPTOPHAN–POTASSIUM IODIDE INTERACTION
H. A. Shilajyan, K.R. Grigoryan

Proceedings of the YSU B Chemical and Biological Sciences 2018 75-79

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/

Article

FLUORESCENCE 2D AND 3D SPECTRA ANALYSIS OF TRYPTOPHAN, TYROSINE AND PHENYLALANINE
K.R.GRIGOTRAN, H. A. SHILAJYAN

Proceedings of the YSU B Chemical and Biological Sciences 2017 3-7

http://www.ysu.am/science/hy/journals

Article

Analysis of the Interaction of Gallic Acid and Myoglobin by UV-vis Absorption Spectroscopy
Grigoryan K. R., Shilajyan H. A.

Russian Journal of Bioorganic Chemistry 2017 257-260

https://link.springer.com/journal/11171

Conference

СПЕКТРАЛЬННЫЕ ИССЛЕДОВАНИЯ ВЗАИМОДЕЙСТВИЯ ГАЛЛОВОЙ И ДУБИЛЬНОЙ КИСЛОТ С МИОГЛОБИНОМ
Григорян К.Р, Шиладжян А.А.

2017 80-81

http://university.tversu.ru/conferences/

Article

Իոնների սոլվատացիայի ուսումնասիրությունը դիմեթիլսուլֆօքսիդի ջրային լուծույթներում էլեկտրահաղորդականության մեթոդով
Հասմիկ Շիլաջյան, Մերրի Մկրտչյան

ԵՊՀ ՈՒԳԸ գիտական հոդվածների ժողովածու 2015 131-134

http://www.ysu.am/sss/hy

Article

Heat Induced Denaturation Of Bovine Serum Albumin In Dimethylsulfoxide Containing Solutions In The Presence Of Potassium Iodide
K. R. Grigoryan, H.A.Shilajyan

Proceedings of the YSU B Chemical and Biological Sciences 2015 3-5

http://www.ysu.am/science/hy/journals

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

Article

STUDY OF THERMAL DENATURING OF HUMAN SERUM ALBUMIN IN THE PRESENCE OF POTASSIUM CHLORIDE BY THE EXCITATION/EMISSION MATRIX METHOD

K. R. Grigoryan, H. A. Shilajyan

Journal of Applied Spectroscopy 2013 786-789

Article

Intermolecular Interactions in Albumin–Sulfoxide–Water Systems at Low Temperatures, Investigated by Means of Fluorescence Quenching

Grigoryan K. R., Shilajyan H. A.

Журнал физической химии (Russian Journal of Physical Chemistry A) 2013 780-782

Article

Physicochemical Peculiarities of Iodine-Dimethylsulfoxide-H2O Solutions and Effect on Ion Binding to Bovine Serum Albumin

Grigoryan K. R., Shilajyan H.A.

Datasets International Dataset Papers in Chemistry 2013 1-5

Article

INFLUENCE OF DIMETHYLSULFOXIDE ON THE FLUORESCENCE BEHAVIOR OF HUMAN SERUM ALBUMIN STUDIED BY EXCITATIONEMISSION MATRIX FLUORESCENCE SPECTROSCOPY METHOD

Grigoryan K. R., Shilajyan H.A.

Proceedings of the YSU B Chemical and Biological Sciences 2013 50-53

Article

The effect of solvated ions on the thermal denaturation of human serum albumin in water-dimethylsulfoxide solutions

Grigoryan K. R., Shiladzhyan A.A.

Russian Journal of Bioorganic Chemistry 2009 581–584