

Liana Sergey Gabrielyan

Faculty of Chemistry

Ֆիզիկական և կոլուգիների քիմիայի ամբիոն
Associate professor

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Education

Institution	Yerevan State University
Faculty	Faculty of Chemistry/Chair of Physical and Colloids Chemistry
Date	1994 - 1999
Degree name	Qualified specialist

Scientific Rank/degree

Institution	Yerevan State University
Date	2009
Degree name	Associate professor
Specialty	Chemical sciences
Institution	Yerevan State University
Date	2004
Degree name	Candidate
Specialty	Chemical sciences
Scientific Supervisor	Շիրազ Մարգարյան
Research Topic	Լիթիումի աղերի սովորութային լուծույթների ֆիզիկաքիմիական ուսումնասիրությունները

Language skills

Հայերեն Russian English Deutsch Français

Work experience

Institution	Institute of Physical and Theoretical Chemistry, Saarland University, Saarbruecken, Germany, Erasmus+
Period of time	2019 - 2019
Rank/degree	Visiting Lecturer
Institution	FH Joanneum, Graz, Austria, Erasmus Printel
Period of time	2018 - 2018

Rank/degree	Visiting Lecturer
Institution	Institute of Physics, Experimental physics II, Bayreuth University, Germany
Period of time	2017 - 2017
Rank/degree	Visiting Researcher
Institution	Institute of Physical Chemistry, Ruhr-University Bochum, Germany
Period of time	2013 - 2013
Rank/degree	Visiting Researcher
Institution	Experimental physics V, Augsburg University, Germany
Period of time	2013 - 2013
Rank/degree	Visiting Researcher
Institution	Institute of Physical Chemistry, Ruhr-University Bochum, Germany
Period of time	2009 - 2009
Rank/degree	Visiting Researcher
Institution	Chair of Physical and Colloids Chemistry, Faculty of Chemistry, Yerevan State University
Period of time	2009 till now
Rank/degree	Associate professor
Institution	Chair of Physical and Colloids Chemistry, Faculty of Chemistry, Yerevan State University
Period of time	2005 - 2009
Rank/degree	Assistant professor
Institution	Institute of Physical Chemistry, University Karlsruhe, Germany
Period of time	2004 - 2005
Rank/degree	Participant in the 40th International Seminar for Research and Teaching in Chemical Engineering and Physical Chemistry, Scientific Researcher
Institution	Chair of Physical and Colloids Chemistry, Faculty of Chemistry, Yerevan State University
Period of time	1999 - 2004
Rank/degree	Junior Scientific Researcher

Scientific interests

- Physical Chemistry
- Quantum chemical calculations
- Solution Chemistry

- FTIR and Raman Spectroscopy
 - Dielectric Relaxation Spectroscopy
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Publications

Article

Comparative Study of Physicochemical Properties and Antibacterial Potential of Cyanobacteria Spirulina platensis-Derived and Chemically Synthesized Silver Nanoparticles
Ani Harutyunyan, Liana Gabrielyan, Anush Aghajanyan, Susanna Gevorgyan, Robin Schubert, Christian Betzel, Wojciech Kujawski, Lilit Gabrielyan
ACS Omega 2024 29410–29421

Article

QUANTUM CHEMICAL CALCULATION OF STRUCTURAL AND THERMODYNAMIC PROPERTIES OF ETHYL METHYL SULFONE IN THE GAS PHASE
L. S. Gabrielyan, Z. Kh. Papanyan

Proceedings of the YSU B: Chemical and Biological Sciences 2023 199-206

Article

PREDICTION OF DIPROPYL SULFONE PROPERTIES BY DENSITY FUNCTIONAL THEORY METHODS: CONFORMATIONAL ANALYSIS AND SIMULATED IR SPECTRUM
Z. Kh. PAPANYAN, L. S. GABRIELYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2022 185-202

Article

Dielectric relaxation and proton field-cycling NMR relaxometry study of dimethyl sulfoxide/glycerol mixtures down to glass-forming temperatures
Max Flämig, Liana Gabrielyan, Rafael Minikejew, Shiraz Markarian, Ernst A. Rössler

Physical Chemistry Chemical Physics 2020 9014-9028

Manual

Ֆիզիկական քիմիայի խնդիրների ժողովածու
Գաբրիէլյան Լ. Ս., Խաչատրյան Ա. Գ., Մարգարյան Շ. Ա.

2020 222

Article

Study of thermodynamic properties of binary mixtures of propionitrile with dimethylsulfoxide (or diethylsulfoxide) at temperatures from (298.15 to 323.15)K
Heghine H. Ghazoyan, Zara L. Grigoryan, Liana S. Gabrielyan, Shiraz A. Markarian

Journal of Molecular Liquids 2019 147-156

Article

Study of thermodynamic properties of binary mixtures of propionitrile with dimethylsulfoxide (or diethylsulfoxide) at temperatures from (298.15 to 323.15)K
H.H. Ghazoyan, Z.L. Grigoryan, L.S. Gabrielyan, S.A. Markarian

Journal of Molecular Liquids 2019 147-156

Article

Dielectric Relaxation Spectroscopy Study of the Structure and Dynamics of Dialkyl Sulfoxide

Solutions

L.S. Gabrielyan, Sh.A. Markaryan

Russian Journal of Physical Chemistry A 2018 205-213

*Article***Quantum chemical study on the solvation of lithium chloride in dimethyl- and diethyl sulfones**

A.S. Mkhitaryan, Z. K. Papanyan, L.S. Gabrielyan

Proceedings of the YSU B: Chemical and Biological Sciences 2018 10-19

<http://www.ysu.am/science/hy/1520431333>

*Article***Theoretical ab initio calculation of entropy and heat capacity of dialkylsulfones in the gas phase**

A.S. Mkhitaryan, Z.K. Papanyan, L.S. Gabrielyan, S.A. Markarian

Chemical Journal of Armenia 2018 13-22

*Article***КВАНТОВО-ХИМИЧЕСКОЕ ОПРЕДЕЛЕНИЕ ТЕПЛОТЫ ГИДРАТАЦИИ ДИЭТИЛСУЛЬФОНА**

Л.С. Габриелян, Ш.А. Маркарян, З.Х. Папанян, А.С. Мхитарян

Известия высших учебных заведений. Серия: химия и химическая технология (ChemChemTech) 2018 17-21

*Article***AB INITIO HARTREE-FOCK AND DENSITY FUNCTIONAL THEORY INVESTIGATIONS ON THE POTENTIAL ENERGY SURFACE AND VIBRATIONAL SPECTRA OF DIETHYL SULFONE**

Z. Kh. PAPANYAN, A. S. MKHITARYAN, L. S. GABRIELYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2018 147-154

*Article***Dielectric relaxation study of sulfolane-water mixtures**

Liana S. Gabrielyan

Journal of Molecular Liquids 2017 217-220

<https://www.journals.elsevier.com/journal-of-molecular-liquids/>

*Article***FTIR and Ab Initio Studies of Diisopropylsulfoxide and its Solutions**

Liana S. Gabrielyan

Journal of Solution Chemistry 2017 759-776

<http://link.springer.com/journal/10953>

*Article***Изучение диэлектрической релаксации бинарной системы****сульфолан/диметилсульфоксид.**

Л.С. ГАБРИЕЛЯН, Ш.А. МАРКАРЯН

Հայաստանի քիմիական հանդես 2017 37-44

<http://www.flib.sci.am/eng/Qimia/Frame.html>

*Article***Dielectric spectroscopy of dimethylsulfone solutions in water and dimethylsulfoxide**

Liana S. Gabrielyan, Shiraz A. Markarian, Hermann Weingärtner

Article

Low temperature dielectric relaxation study of aqueous solutions of diethylsulfoxide

Liana Gabrielyan, Shiraz Markarian, Peter Lunkenheimer, Alois Loidl

The European Physical Journal Plus 2014 245

Article

IR SPECTROSCOPY DETERMINATION OF THE COMPLEXATION CONSTANT FOR A

CHOLESTEROL-DIISOPROPYL SULFOXIDE COMPLEX

L. S. Gabrielyan, L. G. Melik-Ohanjanyan,, S. A. Markarian

Журнал прикладной спектроскопии (Journal of Applied Spectroscopy) 2013 135-137

Article

FT IR ATR Study of Molecular Interactions in the Urea/Dimethyl Sulfoxide and Urea/Diethyl Sulfoxide Binary Systems

Karine R. Grigoryan, Shiraz A. Markarian, Liana S. Gabrielyan

Journal of Solution Chemistry 2004 1005-1015

Conference

Диэлектрические и релаксационные характеристики водных растворов

диэтилсульфоксида

Л.С. Габриелян, Ш.А. Маркарян

Conference

Dielectric relaxation on dialkylsulfoxides solutions

L.S. Gabrielyan

Conference

AB INITIO STUDY OF LITHIUM CHLORIDE SOLVATION BY SULFONES

Gabrielyan L.S., Mkhitaryan A.S., Papanyan Z.K., Markarian S.A.

Conference

AB INITIO STUDY OF ETHYLMETHYLSULFONE

Gabrielyan L.S., Mkhitaryan A.S.

Conference

Dielectric Relaxation and Field-Cycling ^1H NMR Relaxometry Studies of Dimethylsulfoxide/

Glycerol Mixtures at Low Temperatures

Gabrielyan L.S., Markarian S.A., Flämig M., Rössler E.A.

Conference

Quantum Chemical Calculation of Thermodynamic Properties of Diethyl Sulfone

Gabrielyan L.S., Papanyan Z.K., Mkhitaryan A.S.

Conference

Brewer's spent grain as a potential substrate for hydrogen production by Parachlorella

kessleri

L. Gabrielyan, J. Manoyan, L. Gabrielyan

Conference

COMPOSITION AND TEMPERATURE DEPENDENCE OF SURFACE TENSION AND DENSITY OF

AQUEOUS SOLUTIONS OF DIBUTYL SULFONE

Manucharyan V.K., Papanyan Z.K., Gabrielyan L.S.

Conference

Quantum chemical studies of lithium ion/sulfone complexes

Zakar Papanyan, Liana Gabrielyan

Conference

CONFORMATIONAL AND VIBRATIONAL ANALYSIS OF DIPROPYL SULFONE BY DENSITY

FUNCTIONAL THEORY METHODS

Papanyan Z., Gabrielyan L.

Conference

DFT AND EXPERIMENTAL UV/Vis SPECTRA OF SELECTED AZO DYES

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

Conference

THE PHYSICOCHEMICAL AND ANTIMICROBIAL PROPERTIES OF SILVER NANOPARTICLES

SYNTHEZIZED BY Spirulina BIOMASS

Harutyunyan A., Manoyan J., Gevorgyan S., Gabrielyan L., Aghajanyan A., Gabrielyan L.

Conference

The antibacterial potential of Spirulina platensis-mediated green synthesized silver nanoparticles

L. Gabrielyan, A. Harutyunyan, A. Aghajanyan, L. Gabrielyan

Conference

SPIRULINA-Ի ԿԵՆՍԱՉԱՊԻՑ ԱՐԾԱԹԻ ԽԱՆՈՄԱՍԻԿՆԵՐԻ ՍԻՆԹԵԶ ԵՎ ԴՐԱՆՑ

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Հարությունյան Ա.Ա., Մանոյան Զ.Գ., Աղաջանյան Ա.Ա., Գաբրիելյան Լ.Ս., Գաբրիելյան Լ.Ս.

Conference

Antibacterial, hemolytic and anticancer activities of silver nanoparticles biosynthesized by phycocyanin extracted from Spirulina

L. Gabrielyan, A. Harutyunyan, A. Hambardzumyan, A. Aghajanyan, N. Avtandilyan, L. Gabrielyan
