

Liana Sergey Gabrielyan

Faculty of Chemistry

Chair of Physical and Colloid Chemistry

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	Լիթումի աղերի սուլֆօքսիդային լուծույթների ֆիզիկաքիմիական ուսումնասիրությունները

Language skills

Հայերեն Русский 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

Synthesis and Investigation of Polymers Containing Different Ratio of Quinonediiminic and Benzenoid Units in PANi-Like Structure

Parandzem Minasyan, Svetlana Sargsyan, Narine Durgaryan, Liana Gabrielyan

ChemistrySelect 2024 e20240194

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. GABRIELIAN

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

Գաբրիելյան 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. Mkhitarian, Z. K. Papanyan, L.S. Gabrielyan

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

<http://www.y-su.am/science/hy/1520431333>

Article

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

A.S. Mkhitarian, 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. Папаян, 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. GABRIELIAN

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

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

Dielectric spectroscopy of dimethylsulfone solutions in water and dimethylsulfoxide

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

Journal of Molecular Liquids 2014 37-40

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 SYNTHESIZED 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 ԿԵՆՍԱԶԱՆԳՎԱԾԻՑ ԱՐԾԱԹԻ ՆԱՆՈՍԱՄԱՆԻԿՆԵՐԻ ՍԻՆԹԵԶԸ ԵՎ ԴՐԱՆՑ ՀԱԿԱԲԱԿՏԵՐԻԱԿԱՆ ԱԿՏԻՎՈՒԹՅՈՒՆԸ

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
