Zakar Khachik Papanyan

z.papanyan@ysu.am

Faculty of Chemistry
Chair of Physical and Colloid Chemistry

Education

Institution	Yerevan State University
Faculty	Faculty of chemistry
Date	2009 - 2011
Degree name	Masters

Institution	Yerevan State University
Faculty	Faculty of chemistry
Date	2005 - 2009
Degree name	Bachelor

Scientific Rank/degree

Institution	Faculty of chemistry
Date	2014
Degree name	Candidate
Specialty	Chemical sciences
Scientific Supervisor	Sh. Markarian
Research Topic	Molecular interactions and chemical transformations of cysteine in the sulfoxide-water solutions

Language skills

English Русский

Work experience

Institution	Laboratory of physical chemistry at chemistry research center, YSU
Period of time	2014 till now
Rank/degree	resercher

Scientific interests

- Molecular modelling and computational chemistry, methods of spectroscopy

Publications

Article

ՄԻՔԱՅԵԼԻ ՄԻԱՑՄԱՆ ՌԵԱԿՑԻԱՅԻ ՔԵՄՈՍԵԼԵԿՏԻՎՈՒԹՅԱՆ ՈՐՈՇՈՒՄԸ ՔՎԱՆՏԱՔԻՄԻԱԿԱՆ ՀԱՇՎԱՐԿՆԵՐՈՎ

Ա. Վ. ՊԵՏՐՈՍՅԱՆ, Զ. Խ. ՊԱՊԱՆՅԱՆ, Ա.Ս. ԳԱԼՍՏՅԱՆ

Հայաստանի քիմիական հանդես 2024 231-240

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

Conference

CONFORMATIONAL AND VIBRATIONAL ANALYSIS OF DIPROPYL SULFONE BY DENSITY FUNCTIONAL THEORY METHODS

Papanyan Z., Gabrielyan L.

2023 152 - 152

https://newtrendschem.org/

Conference

DFT AND EXPERIMENTAL UV/Vis SPECTRA OF SELECTED AZO DYES

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

2023 268 - 268

https://newtrendschem.org/

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

Conference

Quantum chemical studies of lithium ion/sulfone complexes

Zakar Papanyan, Liana Gabrielyan

2022 62-63

https://polychar-28.ysu.am/program/

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.

2021 95

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

Article

Volumetric, UV–Vis and FT IR Studies of Isoniazid in Diethylsulfoxide Solutions

Shiraz A. Markarian, Zakar K. Papanyan, Gohar A. Shahinyan

Journal of Solution Chemistry 2020 1-13

Conference

UV-VIS AND FT IR STUDY OF COMPLEX FORMATION BETWEEN ISONIAZID AND DIMETHYLSULFOXIDE OR DIETHYLSULFOXIDE

G.A. Shahinyan, Z.K. Papanyan, S.A. Markarian

2020 362

http://www.spec-complex.kubsu.ru/

Conference

Quantum Chemical Calculation of Thermodynamic Properties of Diethyl Sulfone

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

2019 202-202

https://events.spbu.ru/events/rcct2019?lang=Eng

Conference

UV-VIS AND THERMODYNAMIC STUDIES OF COMPLEX FORMATION OF DIETHYLSULFOXIDE WITH CoCl2AND NiCl2

H.H. Ghazoyan, H.R. Sargsyan, Z.K. Papanyan, S.A. Markarian

2019 278-279

http://www.spec-complex.kubsu.ru

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

IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENIY KHIMIYA KHIMICHESKAYA TEKHNOLOGIYA 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

Conference

AB INITIO STUDY OF LITHIUM CHLORIDE SOLVATION BY SULFONES

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

2018 228

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

Article

DETECTION OF OXIDATION OF L-CYSTEINE BY DIMETHYL SULFOXIDE IN AQUEOUS SOLUTIONS BY IR SPECTROSCOPY

PAPANYAN Z., MARKARIAN S.

Journal of Applied Spectroscopy 2013 775-778