

Zakar Khachik Papanyan

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Research Center for Chemistry

Ֆիզիկական քիմիայի լաբորատորիա

Researcher

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

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

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

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

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

PAPANYAN Z., MARKARIAN S.

Conference

AB INITIO STUDY OF LITHIUM CHLORIDE SOLVATION BY SULFONES

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

Conference

Quantum Chemical Calculation of Thermodynamic Properties of Diethyl Sulfone

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

Conference

UV-VIS AND THERMODYNAMIC STUDIES OF COMPLEX FORMATION OF DIETHYLSULFOXIDE WITH CoCl₂ AND NiCl₂

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

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

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.
