

Gohar A. Shahinyan

Faculty of Chemistry

Chair of Inorganic and Analytical Chemistry

Assistant

☎ 34-15

✉ g.shahinyan@ysu.am



Education

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| Institution | Yerevan State University |
| Faculty | Faculty of Chemistry, Department of Physical Chemistry |
| Date | 2013 - 2017 |
| Degree name | PhD student |

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| Institution | Yerevan State University |
| Faculty | Faculty of Chemistry, Department of Physical Chemistry |
| Date | 2011 - 2013 |
| Degree name | Masters |

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| Institution | Yerevan State University |
| Faculty | Faculty of Chemistry |
| Date | 2007 - 2011 |
| Degree name | Bachelor |

Scientific Rank/degree

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|------------------------------|--|
| Institution | Institute of Chemical Physics, NAS RA |
| Date | 2017 |
| Degree name | Candidate |
| Specialty | Chemical sciences |
| Scientific Supervisor | S.A. Markarian |
| Research Topic | Physicochemical study of n-heptane – AOT (dioctyl sulfosuccinate sodium salt) – polar phase reverse micellar systems |

Language skills

Հայերեն Русский English

Work experience

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| Institution | American University of Armenia |
| Period of time | 2023 till now |

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| Rank/degree | Lecturer |
| Institution | Laboratory of Ecological Safety of Scientific Center of Chemistry, Faculty of Chemistry, Yerevan State University |
| Period of time | 2023 till now |
| Rank/degree | Researcher |
| Institution | Department of Inorganic and Analytical Chemistry, Yerevan State University |
| Period of time | 2020 till now |
| Rank/degree | Professor Assistant |
| Institution | Department of Pharmacy, Eurasia International University |
| Period of time | 2019 - 2023 |
| Rank/degree | Professor Assistant (for foreign students in English) |
| Institution | Department of Physical Chemistry, Faculty of Chemistry, Yerevan State University |
| Period of time | 2017 - 2018 |
| Rank/degree | Junior Researcher |
| Institution | Department of Physical Chemistry, Faculty of Chemistry, Yerevan State University |
| Period of time | 2014 - 2020 |
| Rank/degree | Senior Laboratory Assistant |
| Institution | Physical Chemistry research laboratory, Faculty of Chemistry, Yerevan State University |
| Period of time | 2010 - 2011 |
| Rank/degree | Senior Laboratory Assistant |

Scientific interests

- Molecular Spectroscopy, Antioxidant properties, Analytical Chemistry, Food Chemistry

Publications

Article

The Effect of Dimethylsulfoxide (or Diethylsulfoxide) on Methylene Blue-Calf Thymus DNA Binding in Aqueous Solutions by Fluorescence Polarization and Steady-State Fluorescence Quenching

Gohar A. Shahinyan, Heghine H. Ghazoyan, Shiraz A. Markarian

Journal of Solution Chemistry 2023 708-719

Article

HERBAL INFUSIONS AS INHIBITORS OF TRYPSIN ACTIVITY IN WATER AND POLAR ORGANIC SOLVENT-WATER SYSTEMS

A. Kh. JAMAL, A. Q. MOHAMMED, A. H. RASHEED, A. R. AL-RUBBAWI, G. A. SHAHINYAN
Proceedings of the YSU B: Chemical and Biological Sciences 2023 77-89

Article

PREPARATION AND STUDY OF JUNIPER BERRY AND SEED EXTRACTS

M. S. TOROSYAN, V. V. VARDAPETYAN, G. A. SHAHINYAN, A. I. MARTIRYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2023 177-181

Article

STUDY OF ANTIOXIDANT PROPERTIES OF SOME TYPES OF PACKAGED COFFEE

V. V. VARDAPETYAN, M. S. TOROSYAN, G. A. SHAHINYAN, A. I. MARTIRYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2023 182-189

Article

The Study of the Effect of Dimethylsulfoxide (or Diethylsulfoxide) on Quinine Sulfate-DNA Binding by UV-Vis and Steady-State Fluorescence Spectroscopies

Gohar A. Shahinyan, Shiraz A. Markarian

Journal of Fluorescence 2023 1-12

Article

Synthesis, Photophysical Properties and Antioxidant Activity of Novel Quinoline Derivatives

Armen I. Martiryan, Gohar A. Shahinyan, Iskuhi L. Aleksanyan, Lilit P. Hambardzumyan

Journal of Fluorescence 2023 1-8

Article

Antiradical activity, base-catalyzed hydrolysis and partition coefficients of some surfactants

Armen I. Martiryan, Gohar A. Shahinyan, Vladimir V. Vardapetyan

Colloids and Interface Science Communications 2022 100653

Article

Study of the Interaction of Novel Nonprotein Amino Acids with Trypsin by Steady-State Fluorescence Spectroscopy

Gohar A. Shahinyan, Ani S. Dadayan, Nelli A. Hovhannisyan, Shiraz A. Markarian

Journal of Fluorescence 2020 229-233

Article

Fluorescence anisotropy studies on the Hoechst 33258-DNA interaction: the solvent effect

Karen Yu. Amirbekyan, Gohar A. Shahinyan, Heghine H. Ghazoyan, Hasmik R. Sargsyan,

Shiraz A. Markarian

Journal of Biomolecular Structure and Dynamics 2020 1-5

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

Photophysical properties of methylene blue in water and in aqueous solutions of dimethylsulfoxide

Article

Synthesis, Structure, and Properties of Novel Enamine Containing Coumarin and Phosphonium Fragments

L. D. Popov, I. N. Scherbakov, S. A. Borodkin, Yu. V. Revinskii, E. A. Kazoyan, G. A. Shaginyan, A. R. Sarkisyan, Sh. A. Markaryan

Russian Journal of General Chemistry (Журнал общей химии) 2019 906-912

Article

Synthesis of Phosphonium Enamines: Physicochemical Properties of Dimethyl Sulfoxide Solutions

S. A. Borodkin, E. A. Kazoyan, L. D. Popov, G. A. Shaginyan, A. R. Sarkisyan, I. N. Shcherbakov,

Sh. A. Markaryan

Russian Journal of Physical Chemistry A 2019 2187-2191

Article

Thermodynamic and Spectroscopic (UV-Vis, FT IR) Studies of Solutions of CoCl₂ (or NiCl₂) in Diethylsulfoxide

Shiraz A. Markarian, Heghine H. Ghazoyan, Hasmik R. Sargsyan, Gohar A. Shahinyan

Journal of Solution Chemistry 2019 1378-1392

Article

ОБЪЕМНЫЕ СВОЙСТВА ОБРАЩЕННОЙ МИЦЕЛЛЯРНОЙ СИСТЕМЫ n-ГЕПТАН - БИС-(2-ЭТИЛГЕКСИЛ) СУЛЬФОСУКЦИНАТ НАТРИЯ - ПОЛЯРНАЯ ФАЗА (ВОДА+ДИМЕТИЛФОРМАМИД (ИЛИ АЦЕТОНИТРИЛ))

Գ. Ա. ՇԱԳԻՆՅԱՆ, Մ. Ա. ՄԱՐԿԱՐՅԱՆ

Հայաստանի քիմիական հանդես 2018 280-291

Article

The study of n-heptane/AOT/water+ dimethylsulfoxide reverse micelles using acridine orange base as molecular probe

G.A. SHAHINYAN, S.A. MARKARIAN

Հայաստանի քիմիական հանդես 2016 33-46

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

Article

Effect of diethyl sulfoxide on rheological properties of AOT microemulsions

G.A. SHAHINYAN

ԵՊՀ Գիտական տեղեկագիր, Բնական գիտություններ 2016 3-7

<http://ysu.am/science/hy/1355990920>

Article

Effect of diethylsulfoxide on volumetric properties of sodium bis (2-ethylhexyl) sulfosuccinate microemulsions

G.A. SHAHINYAN, H.R. SARGSYAN, A.M. KOLKER, S.A. MARKARIAN

Հայաստանի քիմիական հանդես 2016 407-415

<http://chemistry.asj-oa.am/view/year/2016.html>

Article

Влияние концентрации Na-сульфосукцината (НАС) на свойства мицеллярной системы НАС-н-гептан-ДМСО-вода

Ш.А. Маркарян, А.Р. Саркисян, Г.А. Шагинян

Журнал физической химии (Russian Journal of Physical Chemistry A) 2015 1606-1611

<http://www.maik.ru/ru/journal/fizkhim/>

Article

The effect of dimethylsulfoxide on absorption and fluorescence spectra of aqueous solutions of acridine orange base

Shiraz A. Markarian, Gohar A. Shahinyan

SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY 2015 662-666

<http://www.journals.elsevier.com/spectrochimica-acta-part-a-molecular-and-biomo...>

Article

Effect of the Dioctyl Sodium Sulfosuccinate (AOT) Concentration on the Properties of the AOT-n-Heptane-DMSO-Water Micellar System

Sh. A. Markaryan, A. R. Sarkisyan, G. A. Shaginyan

Russian Journal of Physical Chemistry A 2015 1808-1813

<http://link.springer.com/journal/11504>

Article

Volume Properties of Reverse Micellar Systems AOT/nHeptane/DMSO-Water

A. R. Sargsyan, G. A. Shahinyan, S. A. Markarian

Журнал физической химии (Russian Journal of Physical Chemistry A) 2014 858-862

Article

Влияние диметилсульфоксида на электрохимические и антирадикальные свойства аскорбиновой кислоты

Ш. А. Маркарян, Л. А. Тавадян, Г. Г. Кочарян, Г. А. Шагинян

Известия Академии наук. Серия химическая 2013 1625-1629

Conference

Physicochemical properties of n-heptane/AOT/water+ sulfoxide microemulsions

G.A. Shahinyan, H.R. Sargsyan, S.A. Markarian

Conference

ИЗУЧЕНИЕ КОМПЛЕКСООБРАЗОВАНИЯ ХЛОРИДА И НИТРАТА МЕДИ (II) С ДИЭТИЛСУЛЬФОКСИДОМ МЕТОДОМ УФ СПЕКТРОСКОПИИ

А.Р. Саркисян, Г.А. Шагинян, Е.А. Казоян, И.Н. Щербаков, Ш.А. Маркарян

Conference

THE STUDY OF MOLECULAR INTERACTIONS IN DIMETHYLSULFOXIDE AQUEOUS SOLUTIONS OF ACRIDINE ORANGE BASE BY UV-VIS AND FLUORESCENCE SPECTROSCOPY

Markarian S.A., Shahinyan G.A.

Conference

FT IR study of cobalt chloride or nickel chloride solutions in diethylsulfoxide

Gohar A. Shahinyan, Shiraz 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

BIODEGRADABILITY AND BIOAVAILABILITY OF SEVERAL ENVIRONMENTALLY FRIENDLY SURFACTANTS

Armen I. Martiryan, Gohar A. Shahinyan, Vladimir V. Vardapetyan
