Gohar A. Shahinyan

Faculty of Chemistry
Chair of Inorganic and Analytical Chemistry
Assistant

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Scientific Worker

34-15
g.shahinyan@ysu.am

Education

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

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

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

Scientific Rank/degree

Institution	Yerevan State University
Date	2025
Degree name	Associate professor

Institution	Institute of Chemical Physics after A.B. Nalbandyan
Date	2017
Degree name	Candidate
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

Institution	American University of Armenia
Period of time	2023 till now
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

Publications

Article

CORRELATION BETWEEN CAFFEINE CONTENT, ANTIOXIDANT POWER, TOTAL POLYPHENOL AMOUNT AND GROWTH HEIGHT OF ARMENIAN MOUNTAINOUS HERBS
G. A. SHAHINYAN, V. V. VARDAPETYAN, S. M. VARDAPETYAN, A. I. MARTIRYAN

Proceedings of the YSU B Chemical and Biological Sciences 2026 71-87

https://journals.ysu.am/proceedings-chem-biol/article/view/vol60_no1_2026_pp071...

Article

Antioxidant activity, mineral profile, fatty acids and organic acids analysis of Sambucus Nigra L. flower extracts. Optimization of extraction methods
Vladimir V. Vardapetyan, Ani A. Grigoryan, Gohar A. Shahinyan, Anna M. Soloyan, Armen I. Martiryan

Food Chemistry 2025 143546

Study manual

Անդամթերքի ուսումնասիրման մեթոդներ
Գոհար Շահինյան, Արմեն Մարտիրյան

2025 110

Article

Synthesis and Physicochemical Properties of Hydrazides of Malonic Acid with Different Substitutes
T.V. Ghochikyan, A.I. Martiryan, G.A. Shahinyan, M.A. Samvelyan, A.S. Galstyan, H.R. Sargsyan,

H.H. Ghazoyan

Eurasian Chemico-Technological Journal 2024 203-209

Conference

Antioxidant Activity of Alpine Herbal Tea
Gohar A. Shahinyan, Armen I. Martiryan

2024 18 - 18

https://spectusconferences.com/chemistry-chem-engineering/index.php

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Conference

The effect of dimethylsulfoxide (or diethylsulfoxide) on the properties of DNA solutions
Shiraz A. Markarian, Gohar A. Shahinyan, Heghine H. Ghazoyan

2024 P125

http://lmc2024.com

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

Conference

BIODEGRADABILITY AND BIOAVAILABILITY OF SEVERAL ENVIRONMENTALLY FRIENDLY SURFACTANTS
Armen I. Martiryan, Gohar A. Shahinyan, Vladimir V. Vardapetyan

2022 54

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

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

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/

Article

Photophysical properties of methylene blue in water and in aqueous solutions of dimethylsulfoxide
Gohar A. Shahinyan, Aren Yu. Amirbekyan, Shiraz A. Markarian

SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY 2019 170-175

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 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

Conference

FT IR study of cobalt chloride or nickel chloride solutions in diethylsulfoxide
Gohar A. Shahinyan, Shiraz Markarian

2019 44

http://chemistry-conference.com/index.php

Article

ОБЪЕМНЫЕ СВОЙСТВА ОБРАЩЕННОЙ МИЦЕЛЛЯРНОЙ СИСТЕМЫ н-ГЕПТАН – БИС-(2-ЭТИЛГЕКСИЛ) СУЛЬФОСУКЦИНАТ НАТРИЯ – ПОЛЯРНАЯ ФАЗА (ВОДА+ДИМЕТИЛФОРМАМИД (ИЛИ АЦЕТОНИТРИЛ))
Г. А. ШАГИНЯН, Ш. А. МАРКАРЯН

Հայաստանի քիմիական հանդես 2018 280-291

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.

2018 83-84

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

Conference

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

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

2017 263

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

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

Conference

Physicochemical properties of n-heptane/AOT/water+ sulfoxide microemulsions
G.A. Shahinyan, H.R. Sargsyan, S.A. Markarian

2015 165

http://chph.sci.am/conference/IChPh2015.html

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