

# Hasmik Razmik Sargsyan

## Faculty of Chemistry

Chair of Physical and Colloid Chemistry

Associate professor

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## Education

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	faculty of chemistry
<b>Date</b>	1988 - 1991
<b>Degree name</b>	PhD student

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	faculty of chemistry
<b>Date</b>	1983 - 1988
<b>Degree name</b>	Qualified specialist

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## Scientific Rank/degree

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<b>Institution</b>	Chemical Physics Institute
<b>Date</b>	1993
<b>Degree name</b>	Candidate
<b>Specialty</b>	Chemical sciences
<b>Scientific Supervisor</b>	Norayr Beyleryan, Gevorg Pirumyan
<b>Research Topic</b>	Peroxydase activity of iron (III) tetresulfophenyl porphyrins and hemnonapeptide in reversed micelle systems

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## Language skills

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Հայերեն Русский English

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## Work experience

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2011 till now
<b>Rank/degree</b>	up to now: assistant prof.

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2007 - 2011
<b>Rank/degree</b>	assistant

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2000 - 2007
<b>Rank/degree</b>	senior scientific employee

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	1993 - 2000
<b>Rank/degree</b>	the scientific employee

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	1991 - 1993
<b>Rank/degree</b>	unior scientific employee

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## Scientific interests

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- study of complexation processes
  - study of structural features of vitamins
  - study of volume and transport properties of reverse micelle systems
  - study of substance distribution in micellar systems
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## State awards and honorary titles

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2009 Co-author of the work that won the 1st prize "Best scientific work" in the competition of natural sciences.

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## Publications

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*Article*

### **THERMODYNAMICS OF LIQUID-GAS PHASE EQUILIBRIA OF DIISOPROPYLSULFOXIDE-WATER SYSTEM**

Г.С. Григорян, А.Р. Саркисян

Известия высших учебных заведений. Серия: химия и химическая технология (ChemChemTech) 2024 67-73

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*Article*

### **Diphenyl selenoxide: Unraveled peculiarities in methanol and acetonitrile solutions**

Vitaly V. Chaban, Shiraz A. Markarian, Heghine H. Ghazoyan, Hasmik R. Sargsyan, Gevorg S. Grigoryan, Adrine D. Sahakyan, Levon A. Tavadyan

Journal of Molecular Liquids 2024 125331

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*Article*

### **СПЕКТРОСКОПИЧЕСКОЕ ИССЛЕДОВАНИЕ КОМПЛЕСООБРАЗОВАНИЯ МЕДИ(II) С (S)- $\beta$ -[3-ИЗОБУТИЛ-4-(2-МЕТАЛЛИЛ)-5-ТИОКСО-1,2,4-ТРИАЗОЛ-1-ИЛ]- $\alpha$ -АЛАНИНОМ В ВОДНОМ РАСТВОРЕ**

А.Р. Саркисян, Г.С. Григорян, Ш.А. Маркарян

Известия высших учебных заведений. Серия: химия и химическая технология (ChemChemTech) 2023 62-69

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Article

**Dimethyl sulfoxide fosters larger micelles of docusate sodium in the mixed solutions with water**

S.A. Markarian, H.R. Sargsyan, G.S. Grigoryan, H.H. Ghazoyan, V.V. Chaban

Journal of Molecular Liquids 2023 120960

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Article

**Diphenylsulfoxide exhibits an outstanding solubility in Methanol: Physicochemical and quantum chemical evidences. Comparison to acetonitrile**

Shiraz A. Markarian, Heghine H. Ghazoyan, Hasmik R. Sargsyan, Gevorg S. Grigoryan, Vitaly V. Chaban, Adrine D. Sahakyan, Levon A. Tavadyan

Journal of Molecular Liquids 2023 122924

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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

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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

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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

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Article

**Thermodynamic and Spectroscopic (UV-Vis, FT IR) Studies of Solutions of CoCl<sub>2</sub> (or NiCl<sub>2</sub>) in Diethylsulfoxide**

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

Journal of Solution Chemistry 2019 1378-1392

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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>

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Article

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

Մ.Ա. Մարկարյան, Ա.Ր. Տարկիսյան, Գ.Ա. Շահինյան

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

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

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*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>

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*Manual*

**Էլեկտրոնային կլանման սպեկտրոսկոպիա. կիրառումը քիմիական և կենսաբանական համակարգերում**

Սարգսյան Հ.Ռ.

2015 28

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*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

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*Article*

**Complexation and Reactions of Molecular Iodine with Dimethyl and Diethyl Sulfoxides**

Grigoyan K. R., Sh. A. Markaryan, A. R. Sarkisyan, A. M. Asatryan, Ts. A. Adamyan

Russian Journal of General Chemistry (Журнал общей химии) 2006 1801-1803

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*Article*

**Effect of Diethylsulfoxide on the Thermal Denaturation of DNA**

Karine R. Grigoryan, Arpine M. Asatryan, Shiraz A. Markarian, Hasmik R. Sargsyan

Biopolymers 2006 1-5

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*Conference*

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

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

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*Conference*

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

Ա.Ր. Տարկիսյան, Գ.Ա. Շահինյան, Է.Ա. Կազոյան, Ի.Ն. Շերբաқов, Մ.Ա. Մարկարյան

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*Conference*

**The study of thermodynamic properties of binary mixtures diethylsulfoxide-acetonitrile (or propionitrile)**

Ghazoyan H.H., Grigoryan Z.L., Sargsyan H.R., Markarian S.A.

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*Conference*

**UV-VIS AND THERMODYNAMIC STUDIES OF COMPLEX FORMATION OF DIETHYLSULFOXIDE WITH CoCl<sub>2</sub> AND NiCl<sub>2</sub>**

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

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*Conference*

**УФ-ИССЛЕДОВАНИЕ КОМПЛЕКСООБРАЗОВАНИЯ п-НИТРОАНИЛИНА С МОЛЕКУЛАМИ  
АЭРОЗОЛЯ ОТ В МИЦЕЛЛЯРНЫХ СИСТЕМАХ**

А.Р. Саркисян, Е.А. Казоян, Ш.А. Маркарян

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*Conference*

**THE MICELIZATION OF AOT IN AQUEOUS SOLUTION OF DMSO**

H. Sargsyan, G. Grigoryan, H. Ghazoyan, Sh. Markarian

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*Conference*

**COMPLEX FORMATION OF COPPER(II) WITH (S)- $\beta$ -[3-ISOBUTYL-4-(2-METALLYL)-5-THIOХО-  
1,2,4- TRIAZOL-1-YL]- $\alpha$ -ALANINE IN AQUEOUS SOLUTION**

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

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*Conference*

**ИЗУЧЕНИЕ КОМПЛЕКСООБРАЗОВАНИЯ ИОНА НИКЕЛЯ(II) С ФЕНИЛАЛАНИНОМ В ВОДНОЙ  
СРЕДЕ МЕТОДОМ ИК-СПЕКТРОСКОПИИ**

Г.С. Григорян, А.Р. Саркисян, С.К. Григорян

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*Conference*

**ИССЛЕДОВАНИЕ КОМПЛЕКСООБРАЗОВАНИЯ ВИТАМИНА В12 С ДНК МЕТОДОМ  
ЭЛЕКТРОННОЙ СПЕКТРОСКОПИИ ПОГЛОЩЕНИЯ**

Саркисян А.Р., Маркарян Ш.А.

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