

# Armen I. Martiryan

## Faculty of Chemistry

Chair of Inorganic and Analytical Chemistry

Head of the chair, associate professor

☎ 34-03  
(060) 71-04-03

✉ armart@ysu.am

## Education

---

|                    |                          |
|--------------------|--------------------------|
| <b>Institution</b> | Yerevan State University |
| <b>Faculty</b>     | Faculty of Chemistry     |
| <b>Date</b>        | 1985 - 1988              |
| <b>Degree name</b> | PhD student              |

---

|                    |                          |
|--------------------|--------------------------|
| <b>Institution</b> | Yerevan State University |
| <b>Faculty</b>     | Faculty of Chemistry     |
| <b>Date</b>        | 1980 - 1985              |
| <b>Degree name</b> | Qualified specialist     |

---

## Scientific Rank/degree

---

|                              |   |
|------------------------------|---|
| <b>Institution</b>           | Yerevan State University  |
| <b>Date</b>                  | 1992  |
| <b>Degree name</b>           | Postgraduate  |
| <b>Scientific Supervisor</b> | G. Pirumyan   |
| <b>Research Topic</b>        | The study of regularities of physicochemical transformations of some organic compounds in aqueous media and model systems |

---

## Language skills

---

Հայերեն Русский English

---

## Work experience

---

|                       |  |
|-----------------------|--|
| <b>Institution</b>    | Scientific Center of Chemistry, Yerevan State University |
| <b>Period of time</b> | 2020 till now  |
| <b>Rank/degree</b>    | Head of Laboratory of Ecological Safety                  |

---

|                       |  |
|-----------------------|--|
| <b>Institution</b>    | Faculty of Chemistry, Yerevan State University           |
| <b>Period of time</b> | 2019 till now  |
| <b>Rank/degree</b>    | Head of Department of Inorganic and Analytical Chemistry |

---

|                       |  |
|-----------------------|--|
| <b>Institution</b>    | Faculty of Chemistry, Yerevan State University   |
| <b>Period of time</b> | 2017 - 2019  |
| <b>Rank/degree</b>    | Deputy Dean  |
| <b>Institution</b>    | Department of Physical and Colloid Chemistry, Faculty of Chemistry, Yerevan State University   |
| <b>Period of time</b> | 2015 - 2019  |
| <b>Rank/degree</b>    | Associate Professor  |
| <b>Institution</b>    | Department of Ecological Chemistry, Faculty of Chemistry, Yerevan State University             |
| <b>Period of time</b> | 2007 - 2015  |
| <b>Rank/degree</b>    | Associate Professor  |
| <b>Institution</b>    | Faculty of Chemistry, Yerevan State University.  |
| <b>Period of time</b> | 2000 - 2006  |
| <b>Rank/degree</b>    | Associate Professor  |
| <b>Institution</b>    | Faculty of Chemistry, Yerevan State University   |
| <b>Period of time</b> | 1995 - 2000  |
| <b>Rank/degree</b>    | Associate Professor, Head of Laboratory of Department of Catalysis                             |
| <b>Institution</b>    | Yerevan State University   |
| <b>Period of time</b> | 1993 - 1995  |
| <b>Rank/degree</b>    | Senior Researcher  |
| <b>Institution</b>    | Yerevan State University   |
| <b>Period of time</b> | 1986 - 1993  |
| <b>Rank/degree</b>    | Researcher   |
| <b>Institution</b>    | Department of Physical and Colloidal Chemistry, Faculty of Chemistry, Yerevan State University |
| <b>Period of time</b> | 1985 - 1986  |
| <b>Rank/degree</b>    | Analyst  |

## Scientific interests

- Ecological Chemistry of Water Environment, Photochemistry, Reactions Occurring on Solid Surfaces, Chemistry of the Crystals, Free Radical Reactions

## Publications

*Article*

**Formation of zinc oxide composites of doxycycline with high antibacterial activity based on**

**DC-magnetron deposition of ZnO nanoscale particles on the drug surface**

Ashkhen L. Zatikyan, Armen I. Martiryan, Emma R. Arakelova, Ashot M. Khachatryan, Anait A. Mirzoian, Susanna L. Grigoryan, Rafayel E. Muradyan, Hrachik R. Stepanyan, Stepan G. Grigoryan, Mrcrtich A. Yeranosyan  
Applied Physics A: Materials Science and Processing 2024 152

---

*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

---

*Manual*

**Կոմպլեքս միացություններ**

Գոհար Պետրոսյան, Ռոբերտ Աղամյան, Արմեն Մարտիրյան

2023 164

---

*Article*

**HYPOTENSIVE AND ANTIOXIDANT PROPERTIES OF GAMMA-HYDROXY ACID HYDRAZIDES**

Ghochikyan T.V., Martiryan A.I., Tadevosyan L.G., Petrosyan I.A., Galstyan A.S, Samvelyan M.A.

New Armenian Medical journal 2023 59-65

---

*Article*

**Оценка пригодности вод реки Вохчи для орошения в загородной черте города Капан**

Л.А. Маргарян, С.С. Айрапетян, А.М. Хачатрян, Л.С. Банян, А.И. Мартирян

Ճգնաժամային կառավարում և տեխնոլոգիաներ 2023 108-110

---

*Article*

**Evaluation of antioxidant activity and heavy metals content in licorice (*Glycyrrhiza glabra* L.) growing wild in Armenia**

H. R. Petrosyan, A.A. Nigaryan, H.A. Hovhannisyan, A.M. Soloyan, V.V. Vardapetyan, A.I. Martiryan

Heliyon 2023 e22442

---

*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*

**THE INFLUENCE OF THE ACIDIC TREATMENT OF PEAT ON ITS SORPTION PROPERTIES**

S.S.Hayrapetyan, L.S.Banyan, L.A.Margaryan, H.G.Khachatryan, A.I.Martiryan

Proceedings of the YSU B: Chemical and Biological Sciences 2022 120-125

---

*Article*

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

*Article*

**SYNTHESIS AND STUDY OF PEROXOSOLVATES OF SULFATES OF ELEMENTS OF THE SECOND GROUP**

A. I. MARTIRYAN,, L. G. TADEVOSYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2022 114-119

---

*Article*

**COMPOSITE SORBENTS BASED ON DIATOMITE-BENTONITE AND PAPER-PULP FOR THE REMOVAL OF HEAVY METALS**

S. S. Hayrapetyan, M. S. Hayrapetyan, A. I. Martiryan, H. H. Darbinyan, H. G. Khachatryan

Proceedings of the YSU B: Chemical and Biological Sciences 2021 125-135

---

*Article*

**Assessment of self-purification chemical processes of the river Hrazdan in Armenia**

L. A. MARGARYAN, S. S. HAYRAPETYAN, L. S. BANYAN, A. I. MARTIRYAN

Chemical Journal of Armenia 2021 239-244

---

*Article*

**Synthesis of gamma-hydroxy acid hydrazides of a new structure and study of their antioxidant properties.**

Martiryan A. I., Galstyan A. S., Tadevosyan L. G., Petrosyan I. A.

Proceedings of the YSU B: Chemical and Biological Sciences 2020 188-195

---

*Article*

**THE STUDY OF THE COMPLEX FORMATION OF THE COPPER(II) ION WITH SALICYLIC ACID BY MEANS OF THE EPR AND UV-VIS SPECTROSCOPY METHODS WITHIN WIDE RANGE OF AQUEOUS MEDIUM'S pH VALUES**

Grigoryan G.S., Grigoryan S.K., Martiryan A.I., Tadevosyan L.G.

Proceedings of the YSU B: Chemical and Biological Sciences 2019 166-170

---

*Article*

**DETERMINATION OF THE REACTION RATE CONSTANT FOR THE INTERACTION OF DIETHYL SULFOXIDE WITH THE HYDROXYL RADICAL ON THE BASIS OF COMPETITIVE KINETICS**

A.I. MARTIRYAN, T.M. AYVAZYAN, Sh.A. MARKARIAN

Proceedings of the YSU B: Chemical and Biological Sciences 2018 80-82

---

*Article*

**Synthesis of Carvone-Derived 1,2,3-Triazoles Study of Their Antioxidant Properties and Interaction with Bovine Serum Albumin**

Armen S. Galstyan, Armen I. Martiryan, Karine R. Grigoryan, Armine G. Ghazaryan,

Melanya A. Samvelyan, Taniel V. Ghochikyan, Valentine G. Nenajdenko

Molecules 2018 2991(1-12)

---

*Manual*

**ՄԱՆԴԻ ԱՆՎՏԱՆԳՈՒԹՅԱՆ, ՄԱՆԴԻ ՔԻՄԻԱՅԻ ԵՎ ՄԱՆԴԱՐՏԱԴՐԱԿԱՆ ՏԵԽՆՈԼՈԳԻԱՆԵՐԻ ԱՆԳԼԵՐԵՆ-ՀԱՅԵՐԵՆ-ՈՒՒՍԵՐԵՆ ՏԵՐՄԻՆԱԲԱՆԱԿԱՆ ՀԱՄԱՌՈՏ ԲԱՌԱՐԱՆ**

Գրիգորյան Կ.Ռ., Մարտիրոսյան Ա.Ի.

*Article*

**Peroxosolvates of Magnesium and Zinc Silicates. Obtaining, structure and stability studies**

I. Martiryan A.I., Nersesyan L.A., Tavadyan L.A.

London Review of Education and Science 2016 990-997

<http://www.dongau.ru/nauka-i-innovatsii/nauchnye-konferentsii/meropriyatiya-iyu...>

---

*Article*

**SYNTHESIS AND ANALYSIS OF SODIUM TRIPOLYPHOSPHATE PEROXO SOLVATE**

A. I. MARTIRYAN, L. A. NERSESIAN

Proceedings of the YSU B: Chemical and Biological Sciences 2015 18-21

<http://www.y-su.am/science/hy/journals>

---

*Manual*

**Ատոմային սպեկտրոսկոպիա**

Գրիգորյան Գ.Ս., Մարտիրյան Ա.Ի.

2015 34

---

*Conference*

**ПОЛУЧЕНИЕ ПЕРОКСОСОЛЬВАТОВ ИЗ НЕКОТОРЫХ НЕРАСТВОРИМЫХ В ВОДЕ СИЛИКАТОВ И ИХ ИЗУЧЕНИЕ**

Мартирян А.И., Оганнисян А.А.

---

*Conference*

**Susceptibility of biofilms to influence of peroxide containing biocides**

A. Martiryan, K. Grigoryan, L. Tavadyan, L. Nersesyan, G. Badalyan

---

*Conference*

**СИНТЕЗ ПЕРОКСОСОЛЬВАТОВ СУЛЬФАТОВ МАГНИЯ И ЦИНКА**

А.И. Мартирян

---

*Conference*

**ОЦЕНКА ЭФФЕКТИВНОСТИ ИСПОЛЬЗОВАНИЯ ОСАЖДЕНИЯ СТРУВИТА ДЛЯ ИЗВЛЕЧЕНИЯ АЗОТА ИЗ СТОЧНЫХ ВОД**

Маргарян Л.А., Айрапетян С.С., Банян Л.С., Мартирян А.И.

---

*Conference*

**Cellulose containing composite sorbents to remove heavy metals**

S.S. Hayrapetyan, M.S. Hayrapetyan, L.A. Margaryan, L.S. Banyan, A.I. Martiryan

---

*Conference*

**STUDY OF TN/TP RATIO CHANGES DEPENDING ON WATER LEVEL VARIATION IN THE LAKE SEVAN**

Liana MARGARYAN, Sergey HAYRAPETYAN, Lilit BANYAN, Armen MARTIRYAN

---

*Conference*

**BIODEGRADABILITY AND BIOAVAILABILITY OF SEVERAL ENVIRONMENTALLY FRIENDLY SURFACTANTS**

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

---

Patent

**Ախտահանող-վազող միջոց**

Արմեն Իգնատիոսի Մարտիրոսյան, Լևոն Աղասիի Թավադյան, Լևոն Անդրանիկի Ներսեսյան,  
Կարինա Մարտինի Գրիգորյան, Սեդրյան Հենրիկի Մինասյան, Վլադիմիր Աղաբեկով,  
Ալեքսանդր Ռոտկո, Մոհամմեդ Ալ-Ֆազի, Տուրկի Սաուդ Մոհամմեդ Ալ-Սաուդ

---

Patent

**Հակաօքսիդանտային ակտիվություն ցուցաբերող (R)-2-մեթիլ-5-(3-(4-(ամինոմեթիլ)-1H-1,2,3-տրիազոլ-1-իլ)պրոպ-1-են-2-իլ)ցիկլոհեքս-2-ենոնի N,N-երկտեղակալված ածանցյալներ**  
Գալստյան Արմեն Սուրենի, Ղոչիկյան Տարիել Վլադիմիրի, Մարտիրոսյան Արմեն Իգնատիոսի,

Սամվելյան Մելանյա Աշոտի

---

Patent

**Ախտահանող և վազող նյութեր**

Թավադյան Լևոն, Ներսեսյան Լևոն, Գրիգորյան Կարինե, Մարտիրոսյան Արմեն, Մինասյան Սեդրյան,  
Ագաբեկով Վլադիմիր

---

Conference

**COMPOSITE SORBENT BASED ON HUMIC ACIDS AND ALUMINOSILICATES**

Hayrapetyan Martin, Hayrapetyan Sergey, Margaryan Liana, Banyan Lilit, Martiryan Armen

---