

# Асмик Седраковна Мовсесян

## Биологический факультет

Եկոլոգիայի և բնության պահպանության ամբիոն  
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## Образование

Учреждение	Ереванский государственный университет
Факультет	Биологический
Дата	1982 - 1985
Степень / Звание	Аспирант

Учреждение	Ереванский государственный университет
Факультет	Биологический /отделение биохимии
Дата	1977 - 1982
Степень / Звание	Квалифицированный специалист

## Ученое звание/Ученая степень

Учреждение	Ереванский государственный университет
Дата	2008
Степень / Звание	Доцент
Специальность	Биологические науки

Учреждение	Ереванский государственный университет
Дата	1990
Степень / Звание	Кандидат наук
Специальность	Биологические науки
Научный руководитель	Давтян М. А.
Научная тема	Изоэнзимы аргиназы и процесс биосинтеза пролина в регенерирующей печени крыс, К.005.01.08

## Знание языков

Հայերեն Русский English

## Опыт работы

Учреждение	Ереванский государственный университет
Период времени	2023 до настоящего времени

<b>Звание/степень</b>	Заведующая кафедрой экологии и охраны природы
<b>Учреждение</b>	Ереванский государственный университет
<b>Период времени</b>	2008 до настоящего времени
<b>Звание/степень</b>	Доцент кафедры экологии и охраны природы биологического факультета
<b>Учреждение</b>	Ереванский государственный университет
<b>Период времени</b>	2007 - 2008
<b>Звание/степень</b>	Заведующая отделом повышения квалификации преподавателей ЕГУ
<b>Учреждение</b>	Ереванский государственный университет
<b>Период времени</b>	2002 - 2008
<b>Звание/степень</b>	Ассистент кафедры экологии и охраны природы биологического факультета
<b>Учреждение</b>	Ереванский государственный университет
<b>Период времени</b>	2000 - 2002
<b>Звание/степень</b>	Ассистент кафедры биохимии биологического факультета
<b>Учреждение</b>	Ереванский государственный университет
<b>Период времени</b>	1994 - 2004
<b>Звание/степень</b>	Научный сотрудник
<b>Учреждение</b>	Ереванский государственный университет
<b>Период времени</b>	1985 - 2000
<b>Звание/степень</b>	Старший лаборант кафедры биохимии биологического факультета



## Научные интересы

- Гигиена окружающей среды и труда, химия окружающей среды и токсикология, экология почв, безопасность пищевых продуктов



## Участие в международных конференциях и семинарах

<b>12/09/2023 - 17/09/2023</b>	III Международная научная конференция «Современное состояние чернозёмов» Южный федеральный университет Российская Федерация
<b>08/07/2012 - 12/07/2012</b>	International Conference of Agricultural Engineering CIGR-AgEng CIGR International Commission of Agricultural and Biosystems Engineering Испания

**17/07/2011 - 21/07/2011**      4th International Conference “Enzymes in the Environment: Activity, Ecology & Applications”  
Justus Liebig University  
Германия

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## Публикации

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Статья

**Chenopodium album L.: a promising NaCl accumulating and tolerant plant for mitigation of salinity stress**

Ghazaryan K.A., Margaryan G.H., Minkina T.M., Rajput V.D., Movsesyan H.S.

Revista Brasileira de Botanica 2024 1-20

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Статья

**Advancing Agricultural Resilience in Ararat Plain, Armenia: Utilizing Biogenic Nanoparticles and Biochar under Saline Environments to Optimize Food Security and Foster European Trade**

Abhishek Singh, Gohar Margaryan, Anna Harutyunyan, Hasmik S. Movsesyan, Hrant Khachatryan,

Vishnu D. Rajput, Tatiana Minkina, Athanasios Alexiou, Dimitrios Petropoulos, Athanasios Kriemadis,

Hassan El-Ramady, Karen Ghazaryan

Egyptian Journal of Soil Science 2024 459-483

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Статья

**Uncharted risk measures for the management of sustainable mining**

Beatriz A. Watts, Valéria C. Palmeira Zago, Lakshmi Gopakumar, Karen Ghazaryan, Hasmik Movsesyan

Integrated Environmental Assessment and Management 2023 949-960

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Статья

**Effects of Sodic Water Irrigation and Neutralizing Amendments on Physiological, Biochemical, and Nutritional Quality Traits of Fodder Sorghum**

Hasmik S. Movsesyan, Govind Makarana, Rajender Kumar Yadav, Parvender Sheoran, Rakesh Kumar,

Ashwani Kumar, Hardev Ram, Malu Ram Yadav, Dinesh Kumar, Saurabh Kumar, Tatiana Minkina,

Saglara S. Mandzhieva, Vishnu D. Rajput

Agronomy 2023 1128 (18 էջ)

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Статья

**Seed Nanopriming: An Innovative Approach for Upregulating Seed Germination and Plant Growth Under Salinity Stress**

Abhishek Singh, Shreni Agrawal, Vishnu D. Rajput, Karen Ghazaryan, Hasmik S. Movsesyan,

Tatiana Minkina, Abdel Rahman Mohammad Al Tawaha, Athanasios Alexiou, Badal Singh,

Santosh Kumar Gupta

Nanopriming Approach to Sustainable Agriculture 2023 290-313

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Статья

**Insight into Methanobiology and Role of Emerging Technologies in Methane Management**

Abhishek Singh, Karen Ghazaryan, Hasmik S. Movsesyan, Athanasios T. Alexiou,

Abdel Rahman Mohammad Al Tawaha, Neha Chakrawarti, Ragini Sharma, Shreni Agrawal, Omkar Singh,

Uday Pratap Shahi

Biogeosystem Technique 2023 12-31

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Статья

**Study of tolerance and phytodesalination potential of wheat, oat, emmer, and barley for sustainable saline agriculture**

GHAZARYAN, K.A., HARUTYUNYAN, A.S., KHACHATRYAN, H.E., SINGH, A., MINKINA, T.M., RAJPUT, V.D.,

MOVSESYAN, H.S.

Applied Ecology and Environmental Research 2023 4853-4882

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Статья

**Biogeochemical and microscopic studies of soil and Phragmites australis (Cav.) Trin. ex Steud. plants affected by coal mine dumps**

Karen Ghazaryan, Hasmik Movsesyan, Tatiana Minkina, Grigoriy Fedorenko, Dina Nevidomskaya,

Aleksei Fedorenko, Svetlana Sushkova, Saglara Mandzhieva, Victor Chaplygin, Yuri Litvinov, Yuri Popov,

Christopher Rensing, Vishnu D. Rajput, Ming H. Wong

Environmental Science and Pollution Research 2023 406-421

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Статья

**Phytoremediation of copper-contaminated soil by Artemisia absinthium: comparative effect of chelating agents**

Ghazaryan K.A., Movsesyan H.S., Minkina T.M., Nevidomskaya D.G., Rajput V.D.

Environmental Geochemistry and Health 2022 1203-1215

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Статья

**The identification of phytoextraction potential of Melilotus officinalis and Amaranthus retroflexus growing on copper- and molybdenum-polluted soils**

Karen A. Ghazaryan, Hasmik S. Movsesyan, Tatiana M. Minkina, Svetlana N. Sushkova, Vishnu D. Rajput

Environmental Geochemistry and Health 2021 1327-1335

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Статья

**Adaptive potential of Typha laxmannii Lepech to a heavy metal contaminated site**

Tatiana M. Minkina, Grigoriy M. Fedorenko, Dina G. Nevidomskaya, Yuri A. Fedorov, Tatiana N. Pol'shina,

Aleksei G. Fedorenko, Victor A. Chaplygin, Saglara S. Mandzhieva, Karen A. Ghazaryan,

Hasmik S. Movsesyan, Tara M. Hassan

Plant and Soil 2021 273-287

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Статья

**Influence of soil pollution on the morphology of roots and leaves of Verbascum thapsus L**

Victor Chaplygin, Natalia Chernikova, Grigorii Fedorenko, Aleksei Fedorenko, Tatiana Minkina,

Dina Nevidomskaya, Saglara Mandzhieva, Karen Ghazaryan, Hasmik Movsesyan, Vladimir Beschetnikov

Environmental Geochemistry and Health 2021 1-17

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Статья

**ZnO and CuO nanoparticles: a threat to soil organisms, plants, and human health**

Vishnu Rajput, Tatiana Minkina, Svetlana Sushkova, Arvind Behal, Alexey Maksimov, Eliza Blicharska,

Karen Ghazaryan, Hasmik Movsesyan, Natalia Barsova

Environmental Geochemistry and Health 2020 147-158

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Статья

**Comparative hydrochemical assessment of groundwater quality from different aquifers for irrigation purposes using IWQI: a case-study from Masis province in Armenia**

Karen Ghazaryan, Hasmik Movsesyan, Aram Gevorgyan, Tatiana Minkina, Svetlana Sushkova, Vishnu Rajput, Saglara Mandzhieva

Groundwater for Sustainable Development 2020 1-21,100459

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*Статья*

**Soil salinization in the agricultural areas of Armenian semi-arid regions: case study of Masis region**

Ghazaryan K.A., Gevorgyan G. A., Movsesyan H.S., Khachatryan H.E.

Proceedings of the YSU B: Chemical and Biological Sciences 2020 159-167

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*Статья*

**Հողի ֆերմենտային ակտիվության ցուցանիշների կիրառական ասպեկտները**  
Խաչատրյան Հ.Է., Ղազարյան Կ.Ա., Մովսեսյան Հ.Ս.

Հայաստանի կենսաբանական հանդես 2020 65-71

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*Статья*

**SOIL MICROBIAL BIOMASS AND ENZYME ACTIVITIES RESPONSE TO COPPER AND MOLYBDENUM POLLUTION IN THE VICINITY OF ZANGEZUR COPPER AND MOLYBDENUM COMBINE, ARMENIA**

Ghazaryan K.A., Movsesyan H.S.

Proceedings of the YSU B: Chemical and Biological Sciences 2020 235-245

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*Статья*

**Study of copper, lead, and zinc speciation in the Haplic Chernozem surrounding coal-fired power plant**

Marina Burachevskaya, Tatiana Minkina, Victor Chaplygin, Tatiana Bauer, Victor Chaplygin,

Inna Zamulina, Svetlana Sushkova, Alexey Fedorenko, Karen Ghazaryan, Hasmik Movsesyan,

Denis Makhinya

Applied Geochemistry 2019 102-108

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*Статья*

**Copper phytoremediation potential of wild plant species growing in the mine polluted areas of Armenia**

Ghazaryan Karen, Movsesyan Hasmik, Ghazaryan Naira, Watts Beatriz Amanda

Environmental Pollution 2019 491-501

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*Статья*

**The role of biochar-microbe interaction in alleviating heavy metal toxicity in *Hordeum vulgare* L. grown in highly polluted soils**

Gorovtsov Andrey, Vishnu Rajput, Minkina Tatiana, Mandzhieva Saglara, Sushkova Svetlana,

Kornienko Igor, Tatiana V. Grigoryeva, Chokheli Vasily, Aleshukina Iraida, Zinchenko Vladislav,

Fedorenko Elena, Movsesyan Hasmik

Applied Geochemistry 2019 93-101

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*Статья*

**Copper phytoextraction and phytostabilization potential of wild plant species growing in the mine polluted areas of Armenia**

Karen A. Ghazaryan, Hasmik S. Movsesyan, Hrant E. Khachatryan, Naira P. Ghazaryan,

Tatiana M. Minkina, Svetlana N. Sushkova, Saglara S. Mandzhieva, Vishnu D. Rajput

Статья

**THE IMPACT OF ZANGEZUR COPPER AND MOLYBDENUM COMBINE ACTIVITIES ON THE POLLUTION OF AGRICULTURAL LANDS AND CROPS BY TOXIC ELEMENTS**

K.A. Ghazaryan, H.S. Movsesyan, H.E. Khachatryan, T.G. Leah, H.G. Zhamharyan

Proceedings of the YSU B: Chemical and Biological Sciences 2019 119-125

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Статья

**Ֆիտոտեմեդիացիան որպես ծանր մետաղներով հողերի աղտոտվածության նվազեցման կենսատեխնոլոգիա**

Խաչատրյան Հ.Է., Ղազարյան Կ.Ա., Մովսեսյան Հ.Ս.

Հայաստանի կենսաբանական հանդես 2019 39-47

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Статья

**Hydrochemical analysis and evaluation of groundwater quality for irrigation in Masis Region, Armenia**

Ghazaryan K.A., Movsesyan H.S., Khachatryan H.E., Yezekyan A.S.

Proceedings of the YSU B: Chemical and Biological Sciences 2019 193-199

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Статья

**Effects of zinc-oxide nanoparticles on soil, plants, animals and soil organisms: A review**

Ghazaryan K.A., Movsesyan H.S., Rajput V.D., Minkina T.M., Behal A., Sushkova S.N., Mandzhieva S., Singh R., Gorovtsov A., Tsitsuashvili V.S., Purvis W.O.

Environmental Nanotechnology, Monitoring and Management 2018 76-84

<https://www.journals.elsevier.com/environmental-nanotechnology-monitoring-and-m...>

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Статья

**Geochemistry of Potentially Toxic Trace Elements in Soils of Mining Area: A Case Study from Zangezur Copper and Molybdenum Combine, Armenia**

Karen A. Ghazaryan, Hasmik S. Movsesyan, Hrant E. Khachatryan, Naira P. Ghazaryan

Bulletin of Environmental Contamination and Toxicology 2018 1-6

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Статья

**Environmental risk assessment of soil pollution by some trace elements around open mine and tailing dump of Akhtala Mining and Processing Enterprise**

Ghazaryan K., Movsesyan H., Gevorgyan G., Khachatryan H., Antonyan S., Avetisyan R.

Proceedings of the YSU B: Chemical and Biological Sciences 2018 198-203

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Статья

**POTENTIALLY TOXIC ELEMENTS CONTENT IN SOILS IN THE VICINITY OF SHAMLUGH COPPER MINING AREA (ARMENIA): ECOLOGICAL, AGRICULTURAL AND HEALTH RISK ASSESSMENT**

K. A. GHAZARYAN, H. S. MOVSESYAN, G. A. GEVORGYAN

Biological Journal of Armenia 2018 6-11

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Статья

**Human health risk assessment of heavy metal pollution in soils around Kapan mining area, Armenia**

Gevorgyan G. A., Ghazaryan K. A., Movsesyan H. S., Zhamharyan H. G.

Electronic Journal of Natural Sciences of NAS RA 2017 29-33

Статья

**Copper absorption status of agricultural plant species and their phytoremediation potential**

K.A. Ghazaryan, H.S. Movsesyan, H.E. Khachatryan, T.M. Minkina, S.N. Sushkova

Proceedings of the YSU B: Chemical and Biological Sciences 2017 106-112

<http://www.ysu.am/science/hy/journals>

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Статья

**Assessment of ecological and agricultural risks of heavy metal pollution of soils in the vicinity of Kapan city, Armenia**

Ghazaryan K.A., Movsesyan H. S., Gevorgyan G. A.

Proceedings of the YSU B: Chemical and Biological Sciences 2017 193-197

<http://ysu.am/science/en/1511853083>

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Статья

**Heavy metals in the soils of the mining regions of Kajaran, Armenia: A preliminary definition of contaminated areas**

Ghazaryan Karen A., Movsesyan Hasmik S., Ghazaryan Naira P.

Academic Journal of Science 2017 421-429

<http://www.universitypublications.net/ajs/0703/index.html>

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Статья

**Assessment of heavy metal contamination of soils around Agarak (RA) copper-molybdenum mine complex**

Ghazaryan K. A., Movsesyan H. S., Ghazaryan N. P., Shalunts Sh. V.

Proceedings of the YSU B: Chemical and Biological Sciences 2016 34-42

<http://www.ysu.am/science/hy/journals>

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Статья

**Application of various methods for evaluation of heavy metal pollution in soils around Agarak copper-molybdenum mine complex, Armenia**

K.A. Ghazaryan, H.S. Movsesyan, N.P. Ghazaryan

World Academy of Science, Engineering and Technology. International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering  
2016 809-814

<http://waset.org/Publications/?path=Publications>

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Статья

**Ագարակի պղնձամոլիբդենային կոմբինատի շրջակա հողերի միկրոտարրերով աղտոտվածության հետ կապված էկոլոգիական ռիսկերի գնահատումը**

Կ.Ա. Ղազարյան, Հ.Ս. Մովսեսյան, Հ.Գ. Ժամհարյան, Ն.Փ. Ղազարյան

Հայաստանի կենսաբանական հանդես 2016 66-75

<http://www.flib.sci.am/eng/Biology/>

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Статья

**Environmental risks of heavy metal pollution of the soils around Kajaran town, Armenia**

Gevorgyan G. A., Movsesyan H. S., Grigoryan K. V., Ghazaryan K. A.

Proceedings of the YSU B: Chemical and Biological Sciences 2015 50-55

<http://www.ysu.am/science/hy/journals>

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*Конференция*

**Rapid evaluation of heavy metals impact on biochemical activity and microbial size in soils around Zangezur Combine, Armenia**

Flavio Fornasier, Karen Ghazaryan, Hasmik Movsesyan, Naira Ghazaryan

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*Конференция*

**Geochemistry of potentially toxic trace elements in soils of mining area: a case study from Zangezur Copper and Molybdenum Combine, Armenia**

Ghazaryan K.A., Movsesyan H.S., Khachatryan H.E., Ghazaryan N.P.

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*Конференция*

**Effect of PBO nanoparticle on plant growth**

Rajput V.D., Chaplugin V.A., Minkina T.M., Sushkova S.N., Mandzhieva S.S., Tsitsuashvili V.S.,

Դազարյան Կ.Ա., Մոսեսյան Հ.Ս.

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*Конференция*

**Copper phytoremediation potential of native plant species growing in the mine polluted areas of south Armenia**

Ghazaryan K., Antonyan S., Movsesyan H.

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*Конференция*

**Copper phytoremediation potential of wild plant species growing in the mine polluted areas of Armenia**

Ghazaryan Karen, Movsesyan Hasmik, Khachatryan Hrant, Antonyan Susanna, Ruzan Avetisyan

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*Конференция*

**Strength of zinc fixation in soils in the conditions of aerosol contamination**

Burachevskaya M., Ghazaryan K., Minkina T., Movsesyan H., Mandzhieva S., Bauer T., Sushkova S.

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*Конференция*

**The lead compounds in the soil in conditions of air pollution**

Burachevskaya M., Minkina T., Zamulina I., Lobzenko I., Movsesyan A, Ghazaryan K.

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*Конференция*

**Фракционное распределение цинка в чернозёмах зоны аэротехногенного загрязнения**

Бурачевская М.В., Манджиева С.С., Минкина Т.М., Казарян К.А., Мовсесян А.С., Сушкова С.Н.

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*Конференция*

**Pahs bioaccumulation in soil-plant system in artificial contaminated model experience**

Sushkova, S., Minkina, T., Deryabkina Turina, I., Antonenko, E., Movsesyan, H.

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*Конференция*

**Mechanism of hyperaccumulation of heavy metals by of *Verbascum thapsus* from soil**

Chernikova Natalia, Chaplygin Victor, Nevidomskaya Dina, Ghazaryan Karen, Mandzhieva Saglara,

Minkina Tatiana, Movsesyan Hasmik, Glinushkin Alexey, Kalinichenko Valery, Beschetsnikov Vladimir,

Sazonov Ilia

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*Конференция*

**Study of soil salinization process in the semi-arid agricultural areas of Masis region, Armenia**



