

Karen Aramais Ghazaryan

Faculty of Biology

Dean

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Education

Institution	Yerevan State University
Faculty	Biology
Date	2001 - 2004
Degree name	PhD student

Institution	Yerevan State University
Faculty	Biology
Date	1999 - 2001
Degree name	Masters

Institution	Yerevan State University
Faculty	Biology
Date	1995 - 1999
Degree name	Bachelor

Scientific Rank/degree

Institution	Institute of Botany after A.L. Takhtajyan
Date	2022
Degree name	Doctor
Specialty	Biological sciences
Research Topic	Assessment of ecological consequences of soil degradation and ways of their improvement in high-risk areas of the Republic of Armenia

Institution	Yerevan State University
Date	2016
Degree name	Associate professor
Specialty	Biological sciences

Institution	Scientific center of zoology and hydroecology
Date	2004
Degree name	Candidate
Specialty	Biological sciences
Scientific Supervisor	Grigoeryan K.V.
Research Topic	Ecological evaluation and management of Lake Arpi and its watershed basin

Work experience

Institution Yerevan State University
Period of time 2023 till now
Rank/degree Dean of the Faculty of Biology

Institution Yerevan State University
Period of time 2022 - 2023
Rank/degree Acting Head of the Department of Ecology and Nature Conservation

Institution Yerevan State University
Period of time 2021 till now
Rank/degree Leading researcher

Institution Yerevan State University
Period of time 2016 till now
Rank/degree Associate Professor at the Faculty of Biology, Department of Ecology and Nature Protection

Institution Yerevan State University
Period of time 2015 - 2023
Rank/degree Deputy Dean of the Faculty of Biology

Institution Yerevan State University
Period of time 2008 - 2016
Rank/degree Assistant Professor at the Faculty of Biology, Department of Ecology and Nature Protection

Institution Yerevan State University
Period of time 2005 - 2021
Rank/degree Senior researcher

Scientific interests

- Soil ecology; Water resources monitoring and management; Ecological management of the environment; Ecological evaluation of the environment
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Participation in international conferences and seminars

22/05/2023 - 24/05/2023 2nd Meeting of the International Network of Salt-Affected Soils (INSAS): Managing salt-affected soils for sustainable future
FAO

Uzbekistan

**12/09/2023 -
17/09/2023** - III International Scientific Conference and the II International Scientific School of Young Scientists "Monitoring, protection and restoration of soil ecosystems under anthropogenic load"
Southern Federal University
Russian Federation (the)

**02/05/2018 -
04/05/2018** - Global Symposium on Soil Pollution
FAO
Italy

**24/08/2018 -
28/09/2018** - The current state of chernozems
Southern Federal University
Russian Federation (the)

**08/10/2018 -
10/10/2018** - International Conference Contaminated Sites
The Ministry of Environment of the Slovak Republic and the Slovak Environment Agency
Slovakia

**19/04/2021 -
30/04/2021** - EGU General Assembly
European Geosciences Union
Austria

**20/10/2021 -
22/10/2021** - Global Symposium on Salt-affected Soils
FAO
Italy

Membership

Institution	Member of council 036, speciality: "Zoology, parasitology, ecology"
Period of time	2023 till now

Publications

Article

Impact of Nanofertilizers for the Mitigation of Multiple Environmental Stresses

Abhishek Singh, Sapna Rawat, Vishnu D. Rajput, Karen Ghazaryan, Tatiana Minkina,

Abdel Rahman Mohammad Al Tawaha, Ashi Varshney

Nanofertilizers for Sustainable Agroecosystems 2024 431-454

Article

Green Synthesis of Nanofertilizers and Their Application for Crop Production

Abhishek Singh, Ragini Sharma, Vishnu D. Rajput, Karen Ghazaryan, Tatiana Minkina,

Abdel Rahman Mohammad Al Tawaha, Ashi Varshney

Article

Impact of Salinity Stress and Zinc Oxide Nanoparticles on Macro and Micronutrient

Assimilation: Unraveling the Link between Environmental Factors and Nutrient Uptake

Abhishek Singh, Rakesh Singh Sengar, Vishnu D. Rajput, Uday Pratap Shahi, Abdul Latief Al-Ghzawi, Karen Ghazaryan, Tatiana Minkina, Abdel Rahman Mohammad Al Tawaha, Omar Mahmoud Al Zoubi,

Talaat Habeeb

Journal of Ecological Engineering 2024 1-9

Article

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

Article

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

Article

Zinc Oxide Nanoparticles Influence on Plant Tolerance to Salinity Stress: Insights into Physiological, Biochemical, and Molecular Responses

Abhishek Singh, Vishnu D. Rajput, Shivani Lalotra, Shreni Agrawal, Karen Ghazaryan, Jagpreet Singh,

Tatiana Minkina, Priyadarshani Rajput, Saglara Mandzhieva, Athanasios Alexiou

Environmental Geochemistry and Health 2024 148

Article

Prominent Effects of Zinc Oxide Nanoparticles on Roots of Rice (Oryza sativa L.) Grown under Salinity Stress

Abhishek Singh, Rakesh Singh Sengar, Uday Pratap Shahi, Vishnu D. Rajput, Tatiana Minkina,

Karen A. Ghazaryan

Stresses 2023 33-46

Article

Potential of Suaeda nudiflora and Suaeda fruticosa to adapt to high salinity conditions

Abhishek Joshi, Vishnu D. Rajput, Krishan K. Verma, Tatiana Minkina, Karen Ghazaryan, Jaya Arora

Horticulturae MDPI 2023 1-18

Article

ԷՋՄԻԱՅԻ ՏԱՐԱԾԱՇՐՋԱՆԻ ԳՐՈՒՆՏԱՅԻՆ ԶՐԵՐԻ ՈՌՈԳԵԼԻ ՀԱՏԿՈՒԹՅՈՒՆՆԵՐԻ ԳՆԱՀԱՏՈՒՄԸ ԸՍՏ ՈՐՈՇ ՀԻԴՐՈՔԻՄԻԱԿԱՆ ՑՈՒՑԱՆԻՇՆԵՐԻ

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

Հայաստանի կենսաբանական հանդես 2023 13-21

Article

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

Article

Salinity stress and nanoparticles: Insights into antioxidative enzymatic resistance, signaling, and defense mechanisms

Abhishek Singh, Vishnu D. Rajput, Ragini Sharma, Karen Ghazaryan, Tatiana Minkina

Environmental Research 2023 116585

Article

Nano Zinc-enabled strategies in Crops for Combatting Zinc Malnutrition in Human Health

Abhishek Singh, Vishnu D. Rajput, Divya Pandey, Ragini Sharma, Karen Ghazaryan, Tatiana Minkina

Frontiers in Bioscience-Landmark 2023 158

Article

A Review on Crop Responses to Nanofertilizers for Mitigation of Multiple Environmental Stresses

Abhishek Singh, Vishnu D. Rajput, Abdel Rahman Mohammad Al Tawaha, Omar Mahmoud Al Zoubi,

Talaat Habeeb, Sapna Rawat, Karen Ghazaryan, Tatiana Minkina

Ecological Engineering and Environmental Technology 2023 280-296

Article

Nanoparticle-Based Priming-Enhanced Agricultural Practices: Promoting Sustainable Plant Growth and Development

Abhishek Singh, Sapna Rawat, Vishnu D. Rajput, Karen Ghazaryan, Tatiana Minkina,

Abdel Rahman Mohammad Al Tawaha, Athanasios T. Alexiou, Karansher Singh Sandhu

Nanopriming Approach to Sustainable Agriculture 2023 142-157

Article

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

Article

Nano-Enabled Approaches for Biofortification Strategies to Enhance Crop Production with Micronutrient Enrichment

Abhishek Singh, Vishnu D. Rajput, Neha Chakrawarti, Karen Ghazaryan, Tatiana Minkina, Sakshi Singh

Nano-Biofortification for Human and Environmental Health 2023 1-14

Article

ZnO-NP-Based Biofortification to Enhance Crop Production with Micronutrient Enrichment to Combat Malnutrition

Abhishek Singh, Vishnu D. Rajput, Neha Chakrawarti, Karen Ghazaryan, Tatiana Minkina, Sakshi Singh

Nano-Biofortification for Human and Environmental Health 2023 99-108

Article

Impact of Zinc Oxide Nanoparticles on Seed Germination Characteristics in Rice (*Oryza Sativa L.*) Under Salinity Stress

Abhishek Singh, Rakesh Singh Sengar, Vishnu D. Rajput, Shreni Agrawal, Karen Ghazaryan,

Tatiana Minkina, Abdel Rahman Al Tawaha, Omar Mahmoud Al Zoubi, Talaat Habeeb

Journal of Ecological Engineering 2023 142-156

Article

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

Article

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

Article

Small Tech, Big Impact: Agri-nanotechnology Journey to Optimize Crop Protection and Production for Sustainable Agriculture

Արհիշեկ Սինխ, Vishnu D Rajput, Ashi Varshney, Կարեն Ղազարյան, Tatiana Minkina

Plant Stress 2023 1-26

Article

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

Article

Green Nanofertilizers: the Need for Modern Agriculture, Intelligent, and Environmentally-Friendly Approaches

Abdel Rahman Mohammad Al Tawaha, Abhishek Singh, Vishnu D. Rajput, Ashi Varshney, Shreni Agrawal,

Karen Ghazaryan, Tatiana Minkina, Omar Mahmoud Al Zoubi, Talaat Habeeb, Lysenko Dionis,

Hanan Aref Hasan, Samar Shawaqfeh

Ecological Engineering and Environmental Technology 2023 1-21

Article

ԷԶՍԻԱՅՆԻ ՏԱՐԱԾԱԾՐՉԱՆԻ ԳՅՈՒՂԱՏՆՏԵՍԱԿԱՆ ՆՇԱՆԱԿՈՒԹՅԱՆ ՀՈՂԱՏԱՐԱԾՔՆԵՐԻ ԱՂԱԿԱԼՎԱԾՈՒԹՅԱՆ ԱՍՏԻՃԱՆԻ ԳՆԱՀԱՏՈՒՄԸ

Գ.Հ. Մարգարյան, Հ.Է. Խաչատրյան, Կ.Ա. Ղազարյան

Հայաստանի կենսաբանական հանդես 2023 32-43

Article

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

Article

Chapter 2. Updated analysis of the exposure of plants to the nanomaterials

Arpna Kumari, Sneha Rajput, Vishnu D. Rajput, Dina Nevidomskaya, Saglara S. Mandzhieva,

Svetlana Sushkova, Poonam Kumari, Karen Ghazaryan

Toxicity of Nanoparticles in Plants 2022 25-45

Article

Особенности распределения мощности эквивалентной дозы гамма-излучения и концентрации радионуклидов в почвах на территории г. Новочеркасска Ростовской области

Бураева Е., Горбунов А., Дергачева А., Маломыжева Н., Невидомская Д., Минкина Т., Литвинов Ю.,

Казарян К.

ЭКОЛОГИЯ И ПРОМЫШЛЕННОСТЬ РОССИИ 2022 48-53

Article

Comparative Case Study of Atmospheric Parameters over India and China during Covid 19 Lockdown

Abhishek Singh, Sapna Rawat, Anil Kumar Singh, Karen Ghazaryan, Omkar Singh, Ragini Sharma,

Neha Chakrawarti, Sakshi Singh, Omkar Singh

Biogeosystem Technique 2022 77-88

Article

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

Article

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

Article

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 Beschetsnikov

Environmental Geochemistry and Health 2021 1-17

Article

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

Article

Suitability assessment of groundwater for irrigation purpose at high-risk sites of the Ararat plain

Ghazaryan K.A.

Proceedings of the YSU B: Chemical and Biological Sciences 2020 75-82

Article

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

Article

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

Article

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

Հայաստանի կենսաբանական հանդես 2020 65-71

Article

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

Article

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

Article

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

Article

Molecular characterization of Zn in Technosols using X-ray absorption spectroscopy

Tatiana Minkina, Dina Nevidomskaya, Victoria Shuvaeva, Tatiana Bauer, Alexander Soldatov, Saglara Mandzhieva, Alexander Trigu, Yan Zubavichus, Karen Ghazaryan
Applied Geochemistry 2019 168-175

Article

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
Geochemistry: Exploration, Environment, Analysis 2019 155-163

Article

ՊՂՆՁՈՎ ԵՎ ՄՈՒԲԴԵՆՈՎ ԱՐՏՈՏՎԱԾ ՀՈՂԵՐՈՒՄ ԱՃՈՂ ARTEMISIA VULGARIS ԵՎ MEDICAGO COERULEA ԲՈՒՍԱՏԵՍԱԿՆԵՐԻ ՖԻՏՈԷՔՍՏՐԱԿՑԻԱՅԻ ՆԵՐՈՒԹԻ ԲԱՑԱՀԱՅՏՈՒՄԸ

Ղազարյան Կ.Ա.
Հայաստանի կենսաբանական հանդես 2019 26-32

Article

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

Article

Ֆիտոռեմեդիացիան որպես ծանր մետաղներով հողերի աղտոտվածության նվազեցման կենսատեխնոլոգիա

Խաչատրյան Հ.Է., Ղազարյան Կ.Ա., Մովսեսյան Հ.Ս.
Հայաստանի կենսաբանական հանդես 2019 39-47

Article

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

Article

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...>

Article

Toxicity of copper oxide nanoparticles on spring barley (*Hordeum sativum distichum*)

Vishnu Rajput, Tatiana Minkina, Alexey Fedorenko, Svetlana Sushkova, Saglara Mandzhieva, Vladimir Lysenko, Nadezhda Duplii, Grigory Fedorenko, Konstantin Dvadnenko, Karen Ghazaryan
Science of the Total Environment 2018 1103-1113

Article

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

Article

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

Article

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

Article

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

<http://ejns.sci.am>

Article

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.y-su.am/science/hy/journals>

Article

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>

Article

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>

Article

Hydrochemical assessment of surface water for irrigation purposes and its influence on soil salinity in Tikanlik oasis, China

Ղազարյան Կ.Ա., Չեն Յանլինգ

Environmental Earth Sciences 2016 1-15

<http://link.springer.com/journal/12665>

Article

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.y-su.am/science/hy/journals>

Article

Հողի աղտոտումը ծանր մետաղներով և դրա հետևանքները

Ղազարյան Կ.Ա., Խաչատրյան Հրանտ Էդիկի

Բնագետ 2016 73-78

<http://www.y-su.am/bnaget>

Article

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>

Article

Ազարակի 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/>

Article

Effect of Natural and Technogenic Factors on the Mobility and Transformation of Metal Compounds in Soil

Saglara S. Mandzhieva, Tatiana M. Minkina, Marina V. Buratchevskaya, Victor A. Chaplugin,

Viktoriiia S. Tsitsuashvili, Vishnu D. Rajput, Karen A. Ghazaryan, Palma Orlović-Leko, Ivan Šimunić

Biogeosystem Technique 2016 317-327

http://elibrary.ru/title_about.asp?id=52842

Article

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Ղազարյան Կ.Ա., Շալունց Շ.Վ.

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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.

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Conference

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

Conference

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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Effect of PBO nanoparticle on plant growth

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

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Copper bioaccumulation status and phytoremediation potential of some agricultural plant species growing in polluted agricultural lands of Armenia

Ghazaryan Karen, Ruzan Avetisyan, Hrant Zhamharyan

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

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Environmental risk assessment of soil contamination by trace elements around open mine and tailing dump of the Akhtala Ore Processing Combine

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

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The lead compounds in the soil in conditions of air pollution

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

Ghazaryan Karen, Movsesyan Hasmik, Khachatryan Hrant
