

Карен Арамаисович Казарян

Биологический факультет
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🎓 Образование

Учреждение	Ереванский государственный университет
Факультет	Биологический
Дата	2001 - 2004
Степень / Звание	Аспирант

Учреждение	Ереванский государственный университет
Факультет	Биологический
Дата	1999 - 2001
Степень / Звание	Магистр

Учреждение	Ереванский государственный университет
Факультет	Биологический
Дата	1995 - 1999
Степень / Звание	Бакалавр

🎓 Ученое звание/Ученая степень

Учреждение	Институт ботаники имени А.Л. Тахтаджяна
Дата	2022
Степень / Звание	Доктор наук
Специальность	Биологические науки
Научная тема	Оценка экологических последствий деградации почв и пути их улучшения на территориях повышенного риска Республики Армения

Учреждение	Ереванский государственный университет
Дата	2016
Степень / Звание	Доцент
Специальность	Биологические науки

Учреждение	Научный центр зоологии и гидроэкологии
Дата	2004
Степень / Звание	Кандидат наук
Специальность	Биологические науки
Научный руководитель	Григорян К.В.
Научная тема	Экологическая оценка и управление территорией бассейна озера Арпи

Опыт работы

Учреждение	Ереванский государственный университет
Период времени	2023 до настоящего времени
Звание/степень	Декан биологического факультета
Учреждение	Ереванский государственный университет
Период времени	2022 - 2023
Звание/степень	и.о. заведующего кафедрой экологии и охраны природы
Учреждение	Ереванский государственный университет
Период времени	2021 до настоящего времени
Звание/степень	Ведущий научный сотрудник
Учреждение	Ереванский государственный университет
Период времени	2016 до настоящего времени
Звание/степень	Доцент кафедры экологии и охраны природы биологического факультета
Учреждение	Ереванский государственный университет
Период времени	2015 - 2023
Звание/степень	Заместитель декана биологического факультета
Учреждение	Ереванский государственный университет
Период времени	2008 - 2016
Звание/степень	Ассистент кафедры экологии и охраны природы биологического факультета
Учреждение	Ереванский государственный университет
Период времени	2005 - 2021
Звание/степень	Старший научный сотрудник

Научные интересы

- Экология почвы; Мониторинг и управление водными ресурсами; Экологический менеджмент окружающей среды; Экологическая оценка окружающей среды

Участие в международных конференциях и семинарах

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 Узбекистан
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12/09/2023 - 17/09/2023 III Международной научной конференции и II Международной научной школы молодых ученых «Мониторинг, охрана и восстановление почвенных экосистем в условиях антропогенной нагрузки»
Southern Federal University
Российская Федерация

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

24/08/2018 - 28/09/2018 Современное состояние чернозёмов
Southern Federal University
Российская Федерация

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

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

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

Членство

Учреждение Член специализированного совета 036 по специальности: «Зоология, паразитология и экология» (03.00.08)

Период времени 2023 до настоящего времени

Публикации

Статья

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

Статья

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

Nanofertilizers for Sustainable Agroecosystems 2024 205-231

Статья

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

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

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

Статья

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

Статья

Effects of environmental metal and metalloid pollutants on plants and human health: exploring nano-remediation approach

Priyadarshani Rajput, Abhishek Singh, Shreni Agrawal, Karen Ghazaryan, Vishnu D. Rajput,

Hasmik Movsesyan, Saglara Mandzhieva, Tatiana Minkina, Athanasios Alexiou

Stress Biology 2024 1-25

Статья

Nanotechnology applications for enhanced crop growth and yield. Chapter 4

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

Abdel Rahman Mohammad Al-Tawaha, Athanasios T. Alexiou, Priyadarshani Rajput

Sustainable Agriculture: Nanotechnology and Biotechnology for Crop Production and Protection 2024

53-68

Статья

Nanobiotechnology combined approaches for sustainable agriculture. Chapter 1

Vishnu D. Rajput, Abhishek Singh, Shivani Lalotra, Karen Ghazaryan, Hasmik S. Movsesyan,

Tatiana Minkina, Rahman Mohammad Al-Tawaha, Athanasios T. Alexiou, Priyadarshani Rajput

Sustainable Agriculture: Nanotechnology and Biotechnology for Crop Production and Protection 2024

1-16

Статья

Impact of nano-enzyme and nanomics for sustainable agriculture: Current status and future prospective

Shivangi Singh, Omkar Singh, Sakshi Singh, Abhishek Singh, Vishnu D. Rajput, Karen Ghazaryan, Vaishali Singh, Athanasios Alexiou, Abdel Rahman Mohammad Said Al-Tawaha, Aleksandr Yesayan, Armine David Chakhmakhchyan, Hassan El-Ramady

Harnessing NanoOmics and Nanozymes for Sustainable Agriculture 2024 1-18

Статья

Nano-omics-based abiotic and biotic stresses management

Priyanka Upadhyay, Sonia Navvuru, Praveen Kumar Yadav, Shivani Lalotra, Abhishek Singh, Vishnu D. Rajput, Tatiana Minkina, Karen Ghazaryan

Harnessing NanoOmics and Nanozymes for Sustainable Agriculture 2024 348-371

Статья

Detoxification of Biomedical Waste

Abhishek Singh, Neha Chakrawarti, Vishnu D. Rajput, Karen Ghazaryan, Tatiana Minkina, Abdel Rahman Mohammad Said Al-Tawaha, Abdel Razzaq Al-Tawaha, Marwa Adel Qotb, Arun Karnwal
Microbial Applications for Environmental Sustainability 2024 137-149

Статья

Microbial Enzymes for Eco-Friendly Recycling of Wastepaper by Deinking

Sapna Rawat, Abhishek Singh, Vishnu D. Rajput, Karen Ghazaryan, Tatiana Minkina, Abdel Rahman Mohammad Said Al-Tawaha, Abdel Razzaq Al-Tawaha, Marwa Adel Qotb, Arun Karnwal
Microbial Applications for Environmental Sustainability 2024 165-176

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Microbial Manganese Peroxidase: Ligninolytic Enzymes for Bioremediation

Abhishek Singh, Ragini Sharma, Vishnu D. Rajput, Karen Ghazaryan, Tatiana Minkina, Abdel Rahman Mohammad Said Al-Tawaha, Shreni Agrawal, Ashi Varshney, Abdel Razzaq Al-Tawaha, Arun Karnwal
Microbial Applications for Environmental Sustainability 2024 189-199

Статья

Nanoparticles in revolutionizing crop production and agriculture to address salinity stress challenges for a sustainable future

Abhishek Singh, Shreni Agrawal, Vishnu D. Rajput, Karen Ghazaryan, Aleksandr Yesayan, Tatiana Minkina, Yufei Zhao, Dimitrios Petropoulos, Athanasios Kriemadis, Marios Papadakis, Athanasios Alexiou
Discover Applied Sciences 2024 317

Статья

Carbon Nanodot-Microbe-Plant Nexus in Agroecosystem and Antimicrobial Applications

Prokisch József, Duyen H. H. Nguyen, Arjun Muthu, Aya Ferroudj, Abhishek Singh, Shreni Agrawal, Vishnu D. Rajput, Karen Ghazaryan, Hassan El-Ramady, Mahendra Rai
Nanomaterials 2024 1-37

Статья

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

Статья

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

Статья

ԷՋՄԻԱԾՆԻ ՏԱՐԱԾԱՇՐՋԱՆԻ ԳՐՈՒՆՏԱՅԻՆ ՋՐԵՐԻ ՈՌՈԳԵԼԻ ՀԱՏԿՈՒԹՅՈՒՆՆԵՐԻ ԳՆԱՀԱՏՈՒՄԸ ԸՍՏ ՈՐՈՇ ՀԻԴՐՈՔՆԻՍԻԱԿԱՆ ՑՈՒՑԱՆԻՇՆԵՐԻ

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

Հայաստանի կենսաբանական հանդես 2023 13-21

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

Статья

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

Статья

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

Статья

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

Статья

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

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
Nanoprimer Approach to Sustainable Agriculture 2023 290-313

Статья

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

Статья

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

Статья

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

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

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

Статья

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

Արհիշելի Սիսի, Vishnu D Rajput, Ashi Varshney, Շարեն Աղապարյան, Tatiana Minkina
Plant Stress 2023 1-26

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

Статья

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

Статья

ԷԶՄԻԱԾՆԻ ՏԱՐԱԾԱՇՐՋԱՆԻ ԳՅՈՒՂԱՏՆՏԵՍԱԿԱՆ ՆՇԱՆԱԿՈՒԹՅԱՆ ՀՈՂԱՏԱՐԱԾՔՆԵՐԻ ԱՂԱԿԱԼՎԱԾՈՒԹՅԱՆ ԱՍՏԻՃԱՆԻ ԳՆԱՀԱՏՈՒՄԸ

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

Հայաստանի կենսաբանական հանդես 2023 32-43

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

Статья

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

Arpna Kumari, Sneh Rajput, Vishnu D. Rajput, Dina Nevidomskaya, Saglara S. Mandzhieva, Svetlana Sushkova, Poonam Kumari, Karen Ghazaryan

Toxicity of Nanoparticles in Plants 2022 25-45

Статья

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

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

Казарян К.

ЭКОЛОГИЯ И ПРОМЫШЛЕННОСТЬ РОССИИ 2022 48-53

Статья

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

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

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

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

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

Статья

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

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

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

Статья

Հողի ֆերմենտային ակտիվության ցուցանիշների կիրառական ասպեկտները

Խաչատրյան Հ.Է., Ղազարյան Կ.Ա., Մովսեսյան Հ.Ս.
Հայաստանի կենսաբանական հանդես 2020 65-71

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

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

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

Статья

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

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
Geochemistry: Exploration, Environment, Analysis 2019 155-163

Статья

ՊՂՆՁՈՎ ԵՎ ՍՈՒԻԲՂԵՆՈՎ ԱՐՏՈՏՎԱԾ ՀՈՂԵՐՈՒՄ ԱՃՈՂ ARTEMISIA VULGARIS ԵՎ MEDICAGO COERULEA ԲՈՒՄԱՏԵՍԱԿՆԵՐԻ ՖԻՏՈԷՔՍՏՐԱԿՑԻԱՅԻ ՆԵՐՈՒԹԻ ԲԱՑԱՀԱՅՏՈՒՄԸ

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

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
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