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Կիրառական էկոլոգիայի և շրջակա միջավայրի հետազոտությունների լաբորատորիա
Младший научный сотрудник

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## Образование

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| **Факультет** | Ботаника |
| **Дата** | 2016 - 2018 |
| **Степень / Звание** | Магистр |

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| **Факультет** | Биология |
| **Дата** | 2013 - 2016 |
| **Степень / Звание** | Бакалавр |

## Знание языков

English □□□□□

## Опыт работы

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| **Учреждение** | Ереванский государственный университет |
| **Период времени** | 2025 до настоящего времени |
| **Звание/степень** | Старший лаборант |

## Публикации

*Статья*

**Influence of microbial symbionts and nano zinc on soil chemical and biological properties in strawberry field**

Divya Pandey, J.K. Chauhan, Uday Sharma, Shipra Singh Parmar, Sakshi Singh, Rupesh Kumar Singh, João Ricardo Sousa, Abhishek Singh, Karen Ghazaryan

Journal of Ecological Engineering 2026 28 - 41

https://doi.org/10.12911/22998993/217276

*Статья*

**Seed nanopriming as a strategy to mitigate salinity stress: Physiological, biochemical, and molecular mechanisms**

Abhishek Singh, Roland Bol, Rupesh Kumar Singh, João Ricardo Sousa, Sakshi Singh, Hasmik Movsesyan, Karen Ghazaryan

Current Plant Biology 2026 1-17

https://doi.org/10.1016/j.cpb.2026.100629

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*Статья*

**Effect of Nanoparticles on Germination and Seedling Tolerance Traits of Armenian Genotypes of Wheat (Triticum aestivum L.) Under Salinity Stress**

Armine David Chakhmakhchyan, Abhishek Singh, Nare Darbinyan, Sakshi Singh, Karen Ghazaryan

Biological Science and Innovation for Achieving the Sustainable Development Goals 2026 85 - 102

https://doi.org/10.4018/979-8-3373-1524-9.ch005

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*Статья*

**Global Scientific Trends in Biochar Applications and Research for Salinity and Drought Stresses Management: A Bibliometric Perspective**

Sakshi Singh, Abhishek Singh, Rupesh Kumar Singh, João Ricardo Sousa, Karen Ghazaryan

Biological Science and Innovation for Achieving the Sustainable Development Goals 2026 315 - 346

https://doi.org/10.4018/979-8-3373-1524-9.ch016

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*Статья*

**Nano-Biochar in Sustainable Agriculture: Applications, Benefits, and Future Perspectives**

Omkar Singh, Shivangi Singh, Uday Pratap Shahi, Vaishali Singh, Krishna Kumar Singh, Sakshi Singh, Tatevik Derdzyan, João Ricardo Sousa

Nanotechnology Applications in Soil Science: From Remediation to Precision Agriculture 2026 195 - 220

https://doi.org/10.4018/979-8-3693-7006-3.ch007

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*Статья*

**Addressing Abiotic Stresses and Advancing SDGs by Biochar for Sustainable Agriculture and Environmental Restoration**

Abhishek Singh, Ragini Sharma, Sakshi Singh, Rupesh Kumar Singh, Athanasios Alexiou, João Ricardo Sousa, Hassan El-Ramady, Marina Burachevskaya, Vishnu D. Rajput, Karen Ghazaryan

Egyptian Journal of Soil Science 2025 463-489

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*Статья*

**Nanoparticles: Dual role in alleviating abiotic stresses and boosting nutrient efficiency for sustainable agriculture**

Abhishek Singh, Roland Bol, Viktoriia Lovynska, Sakshi Singh, Rupesh Kumar Singh, João Ricardo Sousa, Mohamed S. Elshikh, Hrant Khachatryan, Karen Ghazaryan

Advances in Agronomy 2025 1-67

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*Статья*

**Sustainable Management of Saline Soils: Insights into Organic Amendments for Enhancing Soil Health and Crop Resilience**

Abhishek Singh, Armine Chakhmakhchyan, Nare Darbinyan, Sakshi Singh, Ani Hayrapetyan, Rupesh Kumar Singh, João Ricardo Sousa, Derdzyan Tatevik, Hrant Khachatryan, Karen Ghazaryan

Biogeosystem Technique 2025 36-47

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*Статья*

**Beyond science: ethical and societal considerations in the era of biogenic nanoparticles**
Simran Choudhury, Indrani Bhattacharya, Shreni Agrawal, Abhishek Singh, Vishnu D. Rajput,

Sakshi Singh, Gohar Margaryan, Rupesh Kumar Singh, Francisco Roberto Quiroz-Figueroa,

Joa˜o Ricardo Sousa, Henrique Trindade, Hassan El-Ramady, Karen Ghazaryan

Biogenic Nanoparticles Interplay with Climate Change and Implications for Human Health 2025 55-78

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*Статья*

**Emerging Frontiers in Nanotechnology for Salinity Stress Management: A Global Bibliometric Analysis**
Abhishek Singh, Vishnu D Rajput, Rupesh Kumar Singh, Mohamed S. Elshikh, Hassan El-Ramady,

József Prokisch, Cheng Liu, Priyadarshani Rajput, Tatiana Minkina, João Ricardo, Athanasios Alexiou,

Sakshi Singh, Vahagn Varagyan, Karen Ghazaryan

Diyala Agricultural Sciences Journal 2025 46-69

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*Конференция*

**Impact of Different Methods Priming on Germination of Different Genotypes of Wheat (Triticum Aestivum L.) Under Salinity Stress**
Nare Darbinyan, Armine Chakhmakhchyan, Ani Hayrapetyan, Abhishek Singh, Sakshi Singh,

Karen Ghazaryan

2025 56 - 56

https://www.ysu.am/en/conference/869

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*Конференция*

**Nanoparticle-Mediated Alleviation of Copper Heavy Metal Stress in Armenian Barley (Hordeum vulgare L.) Genotypes to Enhance Germination and Seedling Growth Traits**
Ani Hayrapetyan, Abhishek Singh, Armine Chakhmakhchyan, Nare Darbinyan, Sakshi Singh,

Karen Ghazaryan

2025 53 - 53

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**Effect of Nanoparticles on Germination and Seedling Tolerance Traits of Armenian Genotypes of Wheat (Triticum Aestivum L.) Under Salinity Stress**
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2025 54 - 54

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*Статья*

**In-depth Exploration of Nanoparticles for Enhanced Nutrient Use Efficiency and Abiotic Stresses Management: Present Insights and Future Horizons**
Abhishek Singh, Aishwarya Sharma, Omkar Singh, Vishnu D. Rajput, Hasmik S. Movsesyan,

Tatiana Minkina, Athanasios Alexiou, Marios Papadakis, Rupesh Kumar Singh, Sakshi Singh,

João Ricardo Sousa, Hassan Ragab El-Ramady, Faisal Zulfiqar, Rahul Kumar, Abdullah Ahmed Al-Ghamdi,

Karen Ghazaryan

Plant Stress 2024 1-24

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*Статья*

**Advancements in Crystallogens Nanoparticles Fabricated by Agricultural Wastes**

Sakshi Singh, Prachi Kurhade, Himanshu Bansal, Priyadarshani Rajput
Biogeosystem Technique 2024 91-107