Sakshi Satish Singh

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Research Institute of Biology
Applied Ecology and Environmental Research Laboratory (AEER- Lab)
Junior Researcher

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Education

Faculty	Botany
Date	2016 - 2018
Degree name	Masters

Faculty	Biology
Date	2013 - 2016
Degree name	Bachelor

Language skills

English □□□□□

Work experience

Institution	Yerevan State University
Period of time	2025 till now
Rank/degree	Senior laboratory assistant

Publications

Article

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

Article

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

Article
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

Article
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

Article
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

Article
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

Article
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

Article
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

Article

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

Article

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

Conference

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

Conference

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

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Conference

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

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

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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

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Article

Advancements in Crystallogens Nanoparticles Fabricated by Agricultural Wastes