

# Sakshi Satish Singh

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## Research Institute of Biology

Applied Ecology and Environmental Research Laboratory (AEER- Lab)

Junior Researcher

## Education

<b>Institution</b>	Veer Bahadur Singh Purvanchal University -222002,UTTAR Pradesh (Uttar Pradesh)
<b>Faculty</b>	Botany
<b>Date</b>	2016 - 2018
<b>Degree name</b>	Masters

<b>Institution</b>	Veer Bahadur Singh Purvanchal University -222002,UTTAR Pradesh (Uttar Pradesh)
<b>Faculty</b>	Biology
<b>Date</b>	2013 - 2016
<b>Degree name</b>	Bachelor

## Language skills

English

## Work experience

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

## Publications

*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*

### **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, Derdzian Tatevik, Hrant Khachatryan, Karen Ghazaryan

Biogeosystem Technique 2025 36-47

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

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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, João 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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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

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Article

**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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Article

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

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

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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

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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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