

# 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, Derdzyan 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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