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## Научно-исследовательский институт биологии

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## Знание языков

English

## Опыт работы

**Учреждение** Научно-исследовательский институт биологии, Лаборатория прикладной биологии и экологии  
**Период времени** 2024 до настоящего времени  
**Звание/степень** Исследователь

**Учреждение** Научно-исследовательский институт биологии, Лаборатория прикладной биологии и экологии  
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## Публикации

Статья

**Fluid-specific detection of environmental pollutant moxifloxacin hydrochloride utilizing a rare-earth niobate decorated functionalized carbon nanofiber sensor platform**  
Shen-ming Chen, Mariya Antony John Felix, Chandini Ragumoorthy, Tse-Wei Chen, G. Kiruthiga, Abhishek Singh, Karen Ghazaryan, Amal M. Al-Mohaimed, Mohamed S Elshikh  
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**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

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**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  
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**Impact of Salinity Stress and Zinc Oxide Nanoparticles on Macro and Micronutrient**

**Assimilation: Unraveling the Link between Environmental Factors and Nutrient Uptake**

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Karen Ghazaryan, Tatiana Minkina, Abdel Rahman Mohammad Al Tawaha, Omar Mahmoud Al Zoubi,

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**Advancing Agricultural Resilience in Ararat Plain, Armenia: Utilizing Biogenic Nanoparticles and Biochar under Saline Environments to Optimize Food Security and Foster European Trade**

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**Zinc Oxide Nanoparticles Influence on Plant Tolerance to Salinity Stress: Insights into Physiological, Biochemical, and Molecular Responses**

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**Nanotechnology applications for enhanced crop growth and yield. Chapter 4**

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**Nanobiotechnology combined approaches for sustainable agriculture. Chapter 1**

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**Nano-omics-based abiotic and biotic stresses management**

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

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**Nanoparticles Mediated Salt Stress Resilience: A Holistic Exploration of Physiological, Biochemical, and Nano-omics Approaches**

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**Green Remediation Harnessing Plant-Based Strategies for Removal of Emerging Soil Contaminants**

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**Addressing hidden hunger via improving soil health and crop nutrients through nanofortification**

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**Unveiling nanomaterial-induced toxicity: Navigating challenges to modern cultivation and soil management practices**

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### **Revolutionizing sustainable agriculture with nano-priming technology: A leap towards resilient and high-yield crops**

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### **Carbon Sequestration through Organic Amendments, Clay Mineralogy and Agronomic Practices: A Review**

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**Enhancing Crop Production: Unveiling the Role of Nanofertilizers in Sustainable Agriculture and Precision Nutrient Management**

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**Earthworms As An Emerging Biotechnological Intervention in the Mitigation of Microplastics**

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**Nanotechnology Products in Agriculture and Environmental Protection: Advances and Challenges**

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**Unveiling the salinity tolerance potential of Armenian Dandur (*Portulaca oleracea* L.) genotypes: Enhancing sustainable agriculture and food security**

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**Nanotechnology in the soil system: An ecological approach towards sustainable management**

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**Eco-Friendly Solutions: Integrating Wild Vegetables for Sustainable Agriculture Food Security and Human Health**

Shipra Singh Parmar, Impa H.R., Ramesh Kumar, Abhishek Singh, Aleksandr Yesayan, Vishnu D Rajput,

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**Impact nano- and micro- form of CdO on barley growth and oxidative stress response**

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**Climate change and drought: challenges for agriculture in arid environments**

Samar Shawaqfeh, Abdel Rahman Mohammad Al Tawaha, Hikmet Gunal, Abdel Razzaq Al-Tawaha,

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**Optimizing irrigation scheduling: strategies for sustainable water management in agriculture**

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**In-vitro Digestibility Organic Materials: Relation with Field Mass Loss Litter Bag Method**

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**Study of tolerance and phytodesalination potential of wheat, oat, emmer, and barley for sustainable saline agriculture**

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

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**Green Nanofertilizers: the Need for Modern Agriculture, Intelligent, and Environmentally-Friendly Approaches**

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