



Current position

Working as a Scientific Officer PPS-07 under PSDP Project “Productivity Enhancement of Rice” Subcomponent Insect Pest Management Program (IPMP), National Agriculture Research Center (NARC), Pakistan Agricultural Research Council (PARC) since 22 January 2020.

Research Interests

Research interest's Agriculture, Applied Entomology, Insecticides Toxicology, Insecticides Modes of Action, Molecular Biology, Biopesticides and Natural Products Bioactivities, Plant Secondary Metabolites, Natural Products Chemistry, Phylogenetic, Gene Expression Studies, Beneficial Microbes.

Academic Qualification

Degree	CGPA/Division
• PhD Agriculture (Entomology and Pest Control) South China Agriculture University Guangzhou P.R China	2019

Research title

Exploration of novel prophylactic from aromatic plants of Baltistan against the Asian citrus psyllid

• MSc (Hons) Agriculture Entomology Agriculture University Peshawar	3.57/4.0	2014
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Research title

Biodiversity and ecological management of invasive forest pest in Skardu Baltistan, Pakistan

• Bsc (Hons) Agricultural Science AJK University Muzaffarabad	3.51/4.0	2012
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Research title

Evaluation of antioxidant, anti-inflammatory and cytotoxic activities of *Araucaria Araucana*

Research Publications

Total 23 (Impact Factor 38.38)

1. **Syed Arif Hussain Rizvi**, Siquan Ling, Xinnian Zeng. *Seriphidium brevifolium* essential oil a possible novel alternative to synthetic insecticides against *Aedes albopictus* vector of dengue fever. 2019. Environmental Science and Pollution Research. 27, 31863–31871(2020) (IF 4.22).
2. **Syed Arif Hussain Rizvi**, Siquan Ling, Fajun Tian, Jiali Liu, and Xinnian Zeng. Interference mechanism of *Sophora alopecuroides* L. alkaloids extract on host finding and selection of the Asian citrus psyllid *Diaphorina citri* Kuwayama

(Hemiptera: Psyllidae). Environmental Science and Pollution Research. 2, 1548–1557 (2019) (IF 4.22).

3. **Syed Arif Hussain Rizvi**, Siquan Ling, Fajun Tian, Feng Xie, Xinnian Zeng. Toxicity and enzyme inhibition activities of the essential oil and dominant constituents derived from *Artemisia absinthium* L. against adult Asian citrus psyllids *Diaphorina citri* Kuwayama (Hemiptera: Psyllidae). Industrial Crop and Products. **121**, 468-475 (2018) (IF 5.69)
4. **Syed Arif Hussain Rizvi**, Feng Xie, Siquan Ling, and Xinnian Zeng. Development and evaluation of emulsifiable concentrate formulation containing *Sophora alopecuroides* L. extract for novel management of *Diaphorina citri* Kuwayama (Hemiptera: Psyllidae) Environmental Science and Pollution Research. **26**, 21871–21881 (2019) (IF 4.22)
5. **Syed Arif Hussain Rizvi**, Justin George, Gadi V. P. Reddy, Xinnian Zeng, Angel Guerrero. Latest Developments in Insect Sex Pheromone Research and Its Application in Agricultural Pest Management. Insects 2021, 12, 484. <https://doi.org/10.3390/insects12060484> (IF 2.20).
6. Tian, F., Mo, X., **Syed Arif Hussain Rizvi**. Detection and biochemical characterization of insecticide resistance in field populations of Asian citrus psyllid in Guangdong of China. *Sci Rep* **8**, 12587 (2018). <https://doi.org/10.1038/s41598-018-30674-5>. (IF 4.25)
7. **Syed Arif Hussain Rizvi**, Tao Lin, Xinnian Zeng. Chemical composition of essential oil obtained from (*Artemisia absinthium* l.) Grown under the climatic condition of Skardu Baltistan of Pakistan. *Pakistan Journal of Botany*. **50**(2): 599-604, 2018. (IF 0.69)
8. Feng Xie, **Syed Arif Hussain Rizvi**, Xinnian Zeng. Fumigant toxicity and biochemical properties of ($\alpha + \beta$) thujone and 1, 8-cineole derived from *Seriphidium brevifolium* essential oil against the red imported fire ants *Solenopsis invicta* (Hymenoptera: Formicidae). *Revista Brasileira de Farmacognosia*. **29**(6): 720-727 (2019) (IF 1.74)
9. Fajun Tian, Feng Xie, **Syed Arif Hussain Rizvi**, Xinnian Zeng. The color morph of Asian citrus psyllid is associated with susceptibility to various insecticides. *Pesticides physiology and biochemistry*. **163**, 193-199 (2020) (IF 2.87)
10. Rana Fartab Shoukat, Muhammad Shakeel, **Syed Arif Hussain Rizvi**, Junaid Zaffar, Junaid Zaffar, Yuxin Zhang, Fengliang Jin. Larvicidal, ovicidal, synergistic, and repellent activities of *Sophora alopecuroides* and Its dominant constituents against *Aedes albopictus*. **11**(4), 246-252 (2020) (IF, 2.20)
11. Jaleel W, Wang D, Lei Y, Qi G, Chen T, **Syed Arif Hussain Rizvi**, Sethuraman V, He Y, Lu L. 2020. Evaluating the repellent effect of four botanicals against two *Bactrocera* species on mangoes. *PeerJ* **8**:e8537 (IF, 2.38)
12. Sitan Chen, Lijun Meng, Fatma. El-Demerdash, Li Zhou, **Syed Arif Hussain Rizvi**, Lili Cui, and Wenyi Kang. Review of Compounds and Pharmacological Effects of Delphinium. ID 9375619 <https://doi.org/10.1155/2020/9375619> (IF, 3.28)
13. Xingyan Zhang, **Syed Arif Hussain Rizvi**, Huatang Wang and Xinnian Zeng. Morphology and function of ovipositorial and tarsal sensilla of female Asian citrus psyllid. *Entomological Research*. **49**, 63–71 (2019) (IF 0.47)
14. Ayub, M., M. Hussain, S. Ahmad, **Syed Arif Hussain Rizvi**, S. Hussain, M. Qasim, M. Din, M.I. Mastoi and Tajudin. 2021. Insecticidal potential of some fermented native plant extracts for the management of white grub (Scarabaeidae: Coleoptera) infestation on potato tubers in Skardu Baltistan. *Pakistan Journal of Agricultural Research*, **34**(2): 259-265. (W category)

15. Saleem Jaffar, Fahad Shah, Sakhawat Ali, Muhammad Yaseen, **Syed Arif Hussain Rizvi**, Muhammad Asghar Hassan. Taxonomy and distribution of bumblebees (Hymenoptera: Apidae) of district Skardu, Gilgit Baltistan. Journal of Entomology and Zoology Studies 2019; 7(1):83-89.
16. **Syed Arif Hussain Rizvi**, Waqar Jaleel, Walter Maldonado Jr, Zahid Mahmood Sarwar, Saleem Jaffar and Muhammad Ayub. Standard IPM measures against an invasive pest Mealy bug, *Drosicha* Sp. (Homoptera: Coccoidea) on Willow tree (*Salix Wilhelmsiana*) in Skardu, Pakistan. 5(1) 317-321, 2017.
17. **Syed Arif Hussain Rizvi.**, Muhammad Nadim Ikhalah, Suhail Ur Rehman, Muhammad Ayub .2015. Population dynamics and efficacy of some selected pesticides for the control of potato mite (*Polyphagotarsonemus latus*, tarsonemidae: trombidiformes) at Gilgit Baltistan, Pakistan. Journal of Entomology and Zoology Studies 2015; 3(5): 370-373.
18. **Syed Arif Hussain Rizvi.**, Sajjad Ahmed, Kamran Sohail, Muhammad Akber, Farida Begum, Ghulam Raza, Muhammad Ali, Saleem Jaffar.2015. Population dynamics, distribution and control of drosicha mealybug, *Drosicha* sp. (Homoptera: Coccidae) on willow tree (*Salix wilhelmsiana*) in district Skardu Gilgit-Baltsitan, Pakistan. J. Bio. & Env. Sci. Vol. 6, No. 3, p. 265-271.
19. **Syed Arif Hussain Rizvi.**, Saleem Jaffar. 2015. Efficacy of some selected chemical insecticides and bio-pesticides against tomato fruit worm, (*Helicoverpa armigera*) under the agro climatic condition of Gilgit Baltistan, Pakistan. J. Entomol and Zool Studies, 3(4): 50-52.
20. **Syed Arif Hussain Rizvi.**, Muhammad Ayub, Musa Hashmi. Kamran Sohail, saleem jaffar. Effect of Different Synthetic Chemical Insecticides on Potato Aphid (*Macrosiphum Euphorbiae* (Thomas) and Their Inauspicious Effects on Lace Wing in Skardu Baltistan, Pakistan .2015. International Journal of Applied Research 2015; 1(11): 117-119.
21. **Syed Arif Hussain Rizvi.**, Muhammad Ayub, Musa Hashmi, Kamran, Sohail, Saleem Jaffar. Effect of different synthetic chemical insecticides on potato aphid (*Macrosiphum Euphorbiae*, Thomas) and their inauspicious effects on lace wing in Skardu Baltistan, Pakistan. International Journal of Applied Research 2015; 1(11): 117-119.
22. Zahid Mahmood Sarwar, Muhammad Razaq, Sarfraz Ali Shad, Waqar Jaleel, **Syed Arif Hussain Rizvi** and Muhammad Faheem Khalid. Taxonomic studies of Genus *Helicoverpa* Hardwick with new record of *Helicoverpa zea* (Boddie) (Lepidoptera: Noctuidae) from Pakistan. 5(1) 565-567, 2017.
23. Shoaib Rasool., Mian Inayatullah, Muhammad Akbar, Muhammad Ali, Shaukat Ali, **Syed Arif Hussian Rizvi**, Sujjad Hyder, Farida Begum, Ghulam Raza, Karamat Ali.2015. Taxonomic study of mosquitoes (Culicidae: Diptera) of district Narowal, Punjab-Pakistan. J. Bio. & Env. Sci. Vol. 6, No. 4, p. 368-373.

CONFERENCE PAPER

1. **Syed Arif Hussain Rizvi**, Xinnian Zeng *Artemisia absinthium* a novel prophylactic against Asian citrus psyllids *Diaphorina citri* Kuwayama (Hemiptera: Psyllidae). Poster presentation in International Congress on Biological Invasion held in Hangzhou China 19-23 February 2018.

PROFESSIONAL EXPERIENCE (4.5 years)

1. 1.5 Years working as a Research fellow PPS-07 at National Agriculture Research Centre Islamabad, Pakistan
2. One year working experience as Entomologist at Sadiq Feeds Pakistan Sahiwal
3. Three months Internee at AGA KHAN RURAL SUPPORT PROGRAM) Skardu. This Project was funded by department of foreign affairs, trade, and development Canada (DFATD) Organization (EELY).
4. Five Months Internee at NARC (National Agriculture research Center) Islamabad

JOURNALS REVIEWER

1. The Science of Nature (IF 2.02)
2. Journal of Experimental Agriculture International
3. American Journal of Entomology
4. Acta Scientific Agriculture
5. Journal of Advances in Medical and Pharmaceutical Sciences
6. Acta Entomology and Zoology (Assistant editor)

GRADUATE AND UNDERGRADUATE STUDENTS' SUPERVISION

1. 9 Undergraduate students supervised at NARC
2. 1 student is doing his MSc (Hons) under my supervision (Evaluation of Best Insecticides for management of Plant Hopper)

INTERNATIONAL RESEARCH COLLABORATIONS

1. Research collaboration with Henan University (Natural Products Bioactivities)
2. All-Russian Scientific Research Institute of Veterinary Entomology and Arachnology, Russia, Tyumen (Pesticides Development)
3. Guangdong Engineering center for Insect Behavior Regulation (Neurosciences and Behavior)

RESERACH SKILLS

1. Insecticides Toxicology
2. Microbial Pesticides
3. Gas Chromatography–Mass Spectrometry (GC-MS)
4. Gas Chromatography- Electroantennographic detection (GC-EAD)
5. Fourier-transform infrared spectroscopy (FTIR)
6. Electron microscopy
7. Biorational pesticides
8. Enzyme activity
9. Nanoparticles synthesis
10. Entomopathogenic fungi

11. Beneficial microbes
12. Chitosan nanoparticles
13. Botanical Pesticides
14. Polymerase chain reaction (PCR)
15. Gene expression
16. Phylogenetic
17. Spectrophotometer
18. Statistical Programs: SPSS & SAS, Origin etc

AWARDS AND ACHIVEMENTS

1. PhD scholarship under Chinese government scholarship council 2016-19
2. MSc (Hons) scholarship from Marafie foundations for master studies 2014-16
3. Brilliant international students award from South China Agriculture University 2018
4. Paper award from South China Agriculture University 2018

CERTIFICATION

1. Diploma in Social work studies from Alison a new world of free certified learning.
2. Diploma in project management from Alison a new world of free certified learning.

LANGAUGES

1. Urdu
2. English
3. Mandarin (Spoken)

REFERENCE

1. Prof Xinnian Zeng (South China Agriculture University)
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PERSONAL DETAILS

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