



Current position

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

Research Interests

Research interest's insect plant interactions, plant secondary metabolites, bio-pesticides formulation, natural products chemistry, botanical insecticides (essential oils and plant extracts), pesticides mode of action, microbial pesticides, integrated pest management of agriculture crops and fruits and insecticides resistance.

Academic Qualification

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

Research title

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

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

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

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

Bioactivity studies of *Araucaria Araucana*

Research Publications

Total 14 (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 5.64)
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)

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. 1.7 Years working as a Scientific Officer at National Agriculture Research Centre Islamabad, Pakistan
2. One year working experience as assistant production manager at Sadiq Feeds Pakistan Sahiwal
3. One year working experience as field researcher at Agriculture Department Skardu Baltistan
4. 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).
5. 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)

RESERACH SKILLS

1. Gas Chromatography–Mass Spectrometry (GC-MS)
2. Gas Chromatography- Electroantennographic detection (GC-EAD)
3. Fourier-transform infrared spectroscopy (FTIR)
4. Electron microscopy
5. Bio-pesticides
6. Enzyme activity
7. Nanoparticles synthesis
8. Entomopathogenic fungi
9. Chitosan nanoparticles
10. Botanical Pesticides
11. Polymerase chain reaction (PCR)
12. Gene expression
13. Phylogenitics
14. Spectrophotometer

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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<http://nxy.scau.edu.cn/nxyenglish/2018/1226/c6436a158476/page.htm>
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PERSONAL DETAILS

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