
Prof. Dr. Muhammad Zafarullah Khan, PhD-Post Ex-Chairman
Member Senate (Governor Nominaee) Abdul Wali Khan
University Mardan

Agricultural Extension Education & Communication, The
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PERSONAL STATEMENT

Self-learner having high adoptability and enjoys working as a team member; also able to work independently or with minimal. Excellent written and verbal communication skills in English, Urdu and Pashto and ability to communicate with diversified people of different levels having various backgrounds. Willingness to listen, appreciate to work with the most susceptible and marginalized people. **1st PhD** in the Faculty of Rural Social Sciences in 2007. **Member Senate** of Abdul Wali Khan University Mardan as Governor' Nominee from Academic Community of the Province/ Country w.e.f. 09-06-2021 till present. **17 National Travel Grant Awards and 3 International Travel Awards** for presenting my Research in the World. **Outstanding Presenter recognition** in International Research Conference with the theme: Research: A Response to the Challenge of Globalization held at Amigo Terrace Hotel, Iloilo City Philippines on February 27-29-2008. **Appreciation Certificate from University of Illinois USA** on February 19, 2016, at Urbana Champaign by sharing my Research. **Appreciation Certificate** for the presentation of the Conference Coordinator Olivier COLIN Heads of the European and International Affairs at **Paris-France**. **Excellence Award 2017** of Reviewing Science Domain International Journal in recognition of an outstanding contribution to the quality of the Journal by the Chief Managing Editor Dr. M. Basumondal. Qualified for TTS Professor in 2014 through selection Board 81st meeting held on 31-10-2014 and approved by Syndicate in its 90th meeting held on 27-11-2014 with excellent International reviewers' remarks by US Professors and Chairs of the Departments in West Virginia and Ohio State Universities but did not avail the TTS position. **Chaired various Technical Sessions** in the International as well as National Conferences. Positions of the Speakers in various International Conferences

Key areas of research: Agricultural Extension, Communication, Rural Development, Climate change and Food Security, Poverty Alleviation

Google Scholar Link:

<https://scholar.google.com/citations?user=z4sphVsAAAAJ&hl=en> (**Citation: 2308 and h-index: 26**)

EDUCATIONAL BACKGROUND

Post Doctorate Asian Institute of Technology (AIT) Thailand	2008-2009
PhD-Agricultural Extension Education and Communication – The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan	2003-2007
M.Sc (Hons)-Agricultural Extension Education and Communication- The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan	1990-1992
B.Sc (Hons)-Agriculture in the field of Agronomy- Faculty of Agriculture Gomal University Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan	1986-1990
Higher Secondary School Certificate (HSSC)- Pre Medical- Board of Intermediate & Secondary Education Peshawar, Khyber Pakhtunkhwa, Pakistan	1984-1986
Secondary School Certificate Science- Board of Intermediate & Secondary Education Peshawar, Khyber Pakhtunkhwa, Pakistan	1984

EMPLOYMENT HISTORY

Professor- The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan	2012 till present
Associate Professor- The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan	2009- 2012
Assistant Professor- The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan	2005- 2009
Lecturer- The University of Agriculture Peshawar, KPK, Pakistan	1992- 2004

Experience in Educational Administration:

Member Senate of Abdul Wali Khan University Mardan, Khyber Pakhtunkhwa, Pakistan as Honorable Governor' Nominee from Academic Community of the Province/ Country w.e.f. 08-06-2021 till present	2012 till present
Senior Member of various Scholarships of Institutional Scholarship Award Committee (ISAC) including USAID Scholarship Committee- The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan	2020 till Present
Member of the Advisory committee of Agricultural Extension and Rural Development of the University of Sargodha, Sargodha-Punjab, Pakistan	2019 till Present

Capacity Building of Faculty and Staff of Higher Education Institutions Training Workshop on Quality Assurance & Governance by the Higher Education Commission (HEC) Pakistan	2017
Chairman Department of the Agricultural Extension Education & Communication- The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan	2010 –2013
Higher Education Commission Approved Supervisor for Master and PhD – The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan	2008 till Present
MEMBER: The Higher Education Commission (HEC) Islamabad-National Curriculum Revision Committee in Agricultural Extension Education and Communication at Graduate and Post Graduate level.	2000-2005
Hostel Warden – The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan	1997 –1998
Assistant Hostel Warden – The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan	1994 –1997

18 TRAVEL AWARDS (17 THROUGH HEC COMPETITION & 3 INTERNATIONAL AWARDS

Travel grant Award by the Higher Education Commission (HEC), Islamabad to present Research Paper on Assessment of the professional competencies of Agriculture officers in NWFP-Pakistan in the “International Conference on Challenges to globalization” West Visayas State University, Iloilo city, PHILIPPINES (29 Feb-02 Mar. 2008).	2008
International Swiss Award to SWITZERLAND for International Course on Vocational Education & Teaching in agriculture (CIEA) in Switzerland at International Centre for Agricultural Education, SWITZERLAND (11-23/08/2008) Sponsered by Swiss Govt.	2008
Travel grant Award by the Higher Education Commission (HEC), Islamabad to present Research Paper on “Assessment of the professional competencies of Agriculture officers in NWFP-Pakistan” in the International Conference (24-25/08/2008) at de Davao University in Davao city, PHILIPPINES .	2008
Post-Doctoral Fellowship Award for 1 Year by Higher Education Commission (HEC) , Islamabad to Asian Institute of Technology (AIT) THAILAND under the supervision of Eminent Scholar Dr. Soparth Pongquan.	2008-09

<p>Travel grant Award by the Higher Education Commission (HEC), Islamabad to present Research Paper in “International Conference on Innovations in Food Processing Technology and Engineering” Asian Institute of technology (AIT), THAILAND</p>	2009
<p>Travel grant Award by the Higher Education Commission (HEC), Islamabad to present Research Paper in “International Conference on Agricultural and Biological Sciences” (28-30/07/2010) at Paris, FRANCE.</p>	2010
<p>Travel grant Award by the Higher Education Commission (HEC), Islamabad to present Research Paper on “Self-Perceived Knowledge gaps of Pakistan’s Agricultural Extension Personnel in Audio Visual aids” in the International Conference (AGREX, 10) Dated 26-28/10/ 2010 at University Putra, MALAYESIA.</p>	2010
<p>Travel grant Award by the Higher Education Commission (HEC), Islamabad to present Research Paper on “Knowledge of Livestock Management Skills of Agricultural Extension Agents in Khyber Pakhtunkhwa-Pakistan” in the International Conference(26-29/7/ 2011) at Suranaree University of Technology Nakhon, RATCHASIMA, THAILAND</p>	2011
<p>Travel grant Award by the Higher Education Commission (HEC), Islamabad to present Research Paper on “Knowledge Gap & Training Needs of Pakistan’s Agriculture Extension Agents in Agricultural Plant breeding and Genetics technology” in the International Conference (13-17/02/2012) at University of Zagreb, CROATIA</p>	2012
<p>Travel grant Award by the Higher Education Commission (HEC), Islamabad to present Research Paper on “Self-Assessment of Pakistan's Agriculture Extension Agents in Human Behavior/ Public Relation” in the International Conference on Sustainable Development, (31.07. 2012-02 /8/2012) USA</p>	2012
<p>Travel grant Award by the Higher Education Commission (HEC), Islamabad to present Research Paper on “Analysis of Farmer, Field Schools as a Tool of Capacity Building for Resource Poor Farmers in Khyber Pakhtunkhwa - Pakistan” in the International Conference on Environmental, Cultural, Economic and Social Sustainability. (23-25.01.2013) JAPAN.</p>	2013

<p>Travel grant Award by the Higher Education Commission (HEC), Islamabad to present Research Paper on “Bridging the Knowledge Gap of Possessed and Required Professional Competencies of Pakistan’s Agriculture Officers” in the International Conference at Latvia University of Agriculture faculty of Economics, (25-26/4/ 2013) LATVIA</p>	2013
<p>Travel grant Award by the Higher Education Commission (HEC), Islamabad to present Research Paper on “The Importance of Administration to Agriculture Extension Officers for Rural Development” in the International Conference at Economics and Social Sustainability (30-31/09/ 2013) at TOKYO, JAPAN.</p>	2013
<p>Travel grant Award by Higher Education Commission (HEC), Islamabad to present Research Paper on “Environmental Management Awareness as Professional Competency of Agricultural Extension Officers for their Plans Implementation” in the International Conference at Centre of Post Graduate Studies International Islamic University College Selangor Bandar Seri Putra 43000 Kajang, Selangor Darul Ehsan, (01-02/12/ 2014) MALAYESIA.</p>	2014
<p>International Travel award by the Head of European and international Affairs for 38th International Colloquium sponsored by European Union “Innovation for Prevention” organized by Section of the International Social Security Association on Prevention in Agriculture, 12th – 14th October 2016 PARIS, FRANCE.</p>	2016
<p>International Travel award to MALAYESIA by AGREX 17 by AGREX to present Research Paper titled “Analysis of Agriculture Extension Officer’s Potentials in Plant Protection for Agriculture Sustainability” in the International Conference (14-16/02/ 2017). (AGREX, 17) organized by University Putra, MALAYESIA.</p>	2017
<p>Travel grant Award by Higher Education Commission (HEC), Islamabad to present Research Paper titled “Assesment of Extension Agents’skills regarding Pest management skills in Khyber Pakhtunkhwa Province in Pakistan” in the V111 International Agricultural Symposium Agrosym 201705-08/10/ 2017) at Sarajevo BOSNIA</p>	2017
<p>Travel grant Award by Higher Education Commission (HEC), Islamabad to present Research Paper titled “Farmer’s Perception of Climate Change and Adaptation in Khyber Pakhtunkhwa- Pakistan” in the V111 International Conference on Climate Change 2018 at Surakarta, INDONESIA.</p>	2018

Climate Change Conference in Asian Institute (AIT) of Thailand 2022. Presented Paper “Assessing the Knowledge Gap of Climate Change Competencies of Pakistan’s Agricultural Extension Officers in the 8th International Conference on Climate Change at AIT THAILAND .	2022
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SPECIAL ACHIVEMENTS

1st PhD in the Faculty of Rural Social Sciences- The University of Agriculture Peshawar, Khyber Pakhtunkhwa, PAKISTAN	2007
Outstanding Presenter recognition in International Research Conference with the theme: Research: A Response to the Challenge of Globalization held at the Amigo Terrace Hotel, Iloilo City PHILIPPINES	2008
Chaired the conference at “International Conference on Innovations in Food Processing Technology and Engineering” Asian Institute of technology (AIT), THAILAND	2009
Qualified TTS Professorship in 2014 through selection Board and Syndicate with excellent remarks by Reviwers from Professors and Chairmen of West Virginia and Ohio State Universities, USA	2014
Appreciation Certificate from University of Illinois USA on February 19, 2016 at URBANA CHAMPAIGN by sharing my Research Article Presented at Latvia University Latvia.	2016
Appreciation Certificate of presentation from the Conference Coordinator, Head of the European and International Affairs Paris, France	2016
Speaker to the 38th International colloquium of the International Section on Prevention in Agriculture of the International social Security Association, PARIS, FRANCE.	2016
Excellent Award 2017 of Reviewing Science Domain International Journal in recognition of an outstanding contribution to the quality of the Journal by Chief Managing Editor	2017
Chaired the conference at V111 International Agricultural Symposium Agrosymat Sarajevo BOSNIA	2017
Speaker in the V111 International Conference on Climate Change, Surakarta, INDONESIA	2018
Attended Capacity building of Faculty and Staff of Higher Education Institutions on Quality Assurance and Governance at Higher Education Commission (HEC) Islamabad PAKISTAN.	2017

Presented Research Article “The Role of Agricultural Extension Workers’ Competency in Climate Scenarios through Farm Services Centers (FSCs) in Improving the Yield and Performance of Targeted Farming Community (A Case Study of Khyber Pakhtunkhwa, Pakistan)” in the 7 th International Conference on Climate Change at Sebelas Maret University INDONESIA.	2021
Presented Research Article “Assessing the Knowledge Gap of Climate Change Competencies of Pakistan’s Agricultural Extension Officers” in the 8th International Conference on Climate Change at AIT THAILAND	2022
Organizer of international Conference” Food Security through Sustainable Plant Protection Strategies” at University of Agriculture, Peshawar Khyber Pakhtunkhwa, Pakistan.	2022
Organizer of international Conference” Food Security on Sustainable Agriculture and Food Security” at Agriculture University Teacher Association (AUTA) 27-31 st August The University of agriculture Peshawar-Pakistan, Peshawar Khyber Pakhtunkhwa, Pakistan.	2023
Training Workshop for National Agriculture Education Accreditation Council (NAEAC) Program Evaluators Organized by NAEAC, HEC, Islamabad , November 2, 2023.	2023

RESEARCH EXPERIENCE

1. An Assessment of Professional Competencies of Agricultural Extension Agents towards Poverty Alleviation through Agriculture in Khyber Pakhtunkhwa Funded by the Higher Education Commission (HEC) Pakistan for **PKR 3 Million (Appreciated by HEC Dated 25-09-2023)**
2. Research Associate with Provincially Administered Tribal Area (PATA) Integrated Agricultural Development Project on the role of Farmers Interest Groups (FIGs) in the adoption of improved technology in Malakand Division during Rabi season of 1991 to 1992 sponsored by Government of Netherlands
3. Research Associate and collected data from all the Seven agencies in Research Project entitled “Strengthening of Extension Activities in Federally Administered Tribal Areas (FATA)” Sponsored by Government of Khyber Pakhtunkhwa, Pakistan in 1993
4. Co-Principal Investigator in Project on “An Investigation into Professional Competencies of Extension Agents in NWFP under AUP-the Higher Education Commission (HEC) Pakistan for **Rs. 2,00000/-**
5. Principal Investigator in Project on “Impact of farm services center approach on empowerment of farming community in Khyber Pakhtunkhwa- Pakistan by the Higher Education Commission (HEC)

Pakistan for Rs. **PKR 2 Million** for two years completed successfully.

LIST OF PhDs SCHOLARS SUPERVISED COMPLETED AS MAJOR SUPERVISOR/MEMBER

1. **Role of Extension Services on Production of Sugarcane** in District Mardan and Charsadda: Khyber Pakhtunkhwa-Pakistan by Faheem Khan November, **2015**

2. **Investigating Competency Level of Field Assistants for Agricultural Development** in Khyber Pakhtunkhwa –Pakistan by Asif Nawaz, May, **2019**.

3. **Knowledge Gap Analysis of Sugarcane Growers** in Khyber Pakhtunkhwa-Pakistan by Arshad Farooq, September, **2020**.

4. **Farmers' Perception Regarding Use of Information and Communication Technologies (ICTs) in Agriculture Extension** of Khyber Pakhtunkhwa-Pakistan by Abdus Salam, February, **2021**.

As PhD Major Member

5. **Perceptions and adaptation strategies of farmers regarding climate change** in Baluchistan with special reference to Agricultural Extension activities by Rahmatullah **2020**

6. **Investigating into Health and Environmental Hazards of Pesticides use to Farming community** in Khyber Pakhtunkhwa Pakistan by Rehmatullah Marwat **2020**

LIST OF M.Phil. SCHOLARS SUPERVISED COMPLETED AS MAJOR SUPERVISOR/MEMBER

1. **Farmers' Perception about Expertise of Extension Workers in Enhancing Citrus Production in Nangarhar–Afghanistan** by Salahuddin June, **2023**

2. **An Analysis of Farmers' Perception about Extension Workers' Capabilities Enhancing Maize Productivity** in District Shangla by Tariq Ahmad, November, **2021**.

3. **Farmers' Perception about Skills of Extension Workers in Enhancing Tomato Production** in District Peshawar by Saddam Hussain, November, **2021**.

4. **Role of Agricultural Extension services in Gram Production** in District Karak by Salman Ibrahim, **2020**.

5. **Contribution of Model Farm Services Centres in Promoting Peach Production** in District Swat by Abdul Khaliq, **2019**.

6. **The Effect of Farm Services Center Approach on selected vegetables' yield** in District Charsadda by Shah Saud Ahmad, **2017**.

7. **The Role Farm Services center in Enhancing wheat production in Kurram Agency** by Mohsin Ali, **2015**.

8. **A study of the Role of Agricultural Extension Agents in Transfer of Onion Production Technology** in District Swat, Khyber Pakhtunkhwa, Pakistan by Laila Khurshid, **2015**.

9. **Constraints and gap analysis of Model Farm Services center's performance from farmers perspective** in District Dera Ismail Khan by Rehmat Ullah, **2015**.

10. **Analysis of Livestock Extension Services regarding Dairy Development** in District Peshawar by Asif Nawaz, **2015**.

11. **Analysis of the Extent of Diffusion of Recommended Agricultural inputs of Public and Private Sectors** in District Mansehra Khyber Pakhtunkhwa Province- Pakistan by Khawaja Jawad Manzoor, **2014**.

12. **An Analysis of Poultry Extension Services Provided by Strengthening Participatory Organization (SPO)** in Disstt. Hattian: AJ&K by Aamir Khalid, **2013**.

13. **The Role of Agricultural Extension Services in Tomato Production** in District Mansehra Khyber Pakhtunkhwa by Ahmad Abrar Khan, **2013**.

14. **Role of Agricultural Extension Services in Expansion of Date Palm Orchards** in District D.I.Khan by Muhammad Mumtaz, **2013**.

15. **Effect of Farmers field School on Vegetables production and Technology adoption** in District Peshawar, Khyber Pakhtunkhwa by Summera Abbasi, **2012**.

16. **Job related constraints faced by working women in Rural Area of District Nowshehra (A case study of Akbar Pura** by Saira Naz Rural Development: **2012**.

17. **Need assessment of change agents with agricultural Extension Perspective in NWFP. (A case study of Peshawar, Abbotabad, and swat Districts)** by Mubashar Habib 2007

18. **Role of extension Agents in the Diffusion of Onion and Tomato crops.** (A case study of 4 selected villages of Union Council Skhakoat Malakand agency) by Safdar Zaman, **2005.**

19. **The effect of community Management skills Training (CMST) provided by National Rural Support Program (NRSP) to CBOs** in District Mardan by Asif Khurshid, **2005.**

20. **Impact of Tobacco Agencies Extension activities on the Productivity of Tobacco crop** of Upper and Lower Swat canals command areas by Farooq Ali Khan, **2001.**

21. **More than 70 students** have been supervised in writing their **review and Internship reports**

22. **Cost and revenue of wheat production** in District Kohat by Arifullah Department of Agricultural Economics. December **2012.**

RESEARCH PUBLICATIONS

IMPACT FACTOR JOURNALS

1. Ayesha Khan, Urooba Pervaiz, Khalid Nawab and **Muhammad Zafarullah Khan. 2017.** Information Sources as Tool for Solving Farmers Problems in Khyber Pakhtunkhwa (Pakistan) J. Asian Dev. Stud, Vol. 6 (2) PP 6-14. Index Copernicus (IC Impact 5.81), Global Impact Factor (0.298)

2. Tariq Shah, Jianping Tao, **Muhammad Zafarullah Khan**, Amjad Iqbal, Abdullah, Farooq Shah. **2016.** Analyzing the Performance of Member and Non-member Farming Community of Model Farm Services Center in District Dera Ismail Khan, Pakistan. J. Appl. Environ. Biol. Sci. 7(3): 191-201. ISSN: 2090-4274. (Impact Factor=0.702)

3. Faheem Khan, **Muhammad Zafarullah Khan**, Malcolm Wengener and Zelle Huma. **2016.** Association of Agricultural Machineries and Nitrogen Application with Sugarcane Crop at Selected Districts of Khyber Pakhtunkhwa Province: Pakistan. Thai Journal of Agricultural Science 2016, 49(2):27-39 www.thaiagj.org

4. Rehmatullah, **Muhammad Zafar Ullah Khan**, Kalimullah and Tahir Munir Butt. **2015.** Model Farm Services Center Approach: An Implication to Boost Farmer's Yield. Agricultural Sciences (6): 953-960. ISSN: 2156-8553. (Impact Factor = 0.73)

-
5. Wisal, S., J. Ullah, A. Zeb and **Muhammad Zafarullah Khan. 2013.** Effect of Refrigeration Temperature, Sugar Concentration and Different Chemicals Preservatives on the Storage Stability of Strawberry Juice. *International Journal of Engineering & Technology IJET-IJENS* Vol: 13 No: 02: 160-168. ISSN: 2077-1185. (Impact Factor = 0.4462)
-
6. Qasim, M. Khan, **Muhammad Zafarullah Khan**, Naz, A and Khalid, S. **2013.** An Insight of Ecosystem Capitals and Services of the Kaghan Valley: A Himalayan Region of Pakistan. *Natural Resources Published Online* June 2013 (<http://www.scirp.org/journal/nr>). Vol 4. No. 2: 163-169. ISSN: 2158-7086. (Impact Factor = 0.450)
-
7. Qasim, M, Khan, Khalid, S. Naz, A. Khan, **Muhammad Zafarullah Khan** and Khan, S.A. **2013.** Effects of Different Planting Systems on Yield of Potato Crop in Kaghan Valley; a Mountainous Region of Pakistan. *Agricultural Sciences*. Vol. 4 No.4:175-179. ISSN 2156-8561 (Impact Factor=0.191)
-
8. Muhammad Arif, Muhammad Tariq Jan, Muhammad Jamal Khan, Muhammad Saeed, Iqbal Munir, Zia Ud Din, Habib Akbar, Shaheen Shah and **Muhammad Zafarullah Khan. 2011.** Effect of Cropping System and Residue Management on Maize. *Pak. J. Bot.* 43 (2): 915-920. ISSN: 0556-3321. (Impact Factor = 0.93)
-
9. Naqibullah K., G. Hassan, K.B. Marwat, Farhatullah, M.B. Kumbhar, A. Perveen, U. Aiman, **Muhammad Zafarullah Khan**, and Z.A. Soomro. **2009.** Diallel Analysis of some Quantitative Traits in *Gossypium Hirsutum* L. *Pak. J. Bot.* 41 (6):3009-3022. ISSN: 0556-3321. (Impact Factor = 0.93)
-
10. Naqibullah K., G. Hassan, K.B. Marwat, M.B. Kumbhar, I. Khan, Z.A Soomro, M.J. Baloch and **Muhammad Zafarullah Khan. 2009.** Legacy Study of Cotton Seed Traits in Upland Cotton using Griffing,s Combining ability model. *Pak. J. Bot.* 41 (1): 131-142. ISSN: 0556-3321. (Impact Factor = 0.93)

HEC RECOGNIZED JOURNALS

11. Salahuddin Hidayat, **Muhammad Zafurallah Khan**, Urooba Pervaiz, Ayesha Khan and Malik Muhammad Shafi. 2024. Challenges for Extension Workers in Soil Health for Citrus Production in District Bati Kot, Nangarhar- Afghanistan. Xi'an Shiyou Daxue Xuebao (Ziran Ban)/Journal of Xi'an Shiyou University Natural Science Edition. 20 (01) 603-611.
URL <https://www.xisdjxsu.asia/viewarticle.php?aid=2952>
12. Salahuddin Hidayat, **Muhammad Zafurallah Khan**, Urooba Pervaiz and Irfan Ullah Kha. 2023. Citrus Growers' Point of View Regarding the Knowledge of Agriculture Extension Workers in Climate Change for Citrus Production of District Bati Kot, Nangarhar- Afghanistan. Xi'an Shiyou Daxue Xuebao (Ziran Ban)/Journal of Xi'an Shiyou University Natural Science Edition. 19 (09) 351-358
URL: <https://www.xisdjxsu.asia/viewarticle.php?aid=2642>
13. Salahuddin Hidayat and **Muhammad Zafurallah Khan . 2023**. An Investigation into the Various Measures of Citrus Production in Improving the Socio Economic Status of Citrus Growers (A Case Study of in Nangarhar Province-Afghanistan). Xi'an Shiyou Daxue Xuebao (Ziran Ban)/Journal of Xi'an Shiyou University Natural Science Edition. 19 (09) 67-87
URL: <https://www.xisdjxsu.asia/viewarticle.php?aid=2620>
14. Salahuddin Hidayat, **Muhammad Zafurallah Khan** and Ayesha Khan. **2023**. Farmer's Assessment of Extension Workers Expertise in Enhancing Citrus Production in Nangarhar Province-Afghanistan. Xi'an Shiyou Daxue Xuebao (Ziran Ban)/Journal of Xi'an Shiyou University Natural Science Edition. 19 (08) 200-212
URL: <https://www.xisdjxsu.asia/viewarticle.php?aid=2548>
15. Urooba Pervaiz, Dawood Jan, Mehnaz Safdar, Ayesha Khan, **Muhammad Zafurallah Khan** and Mahmood Iqbal. **2023**. Gender Discrimination in Extension-Farmers Contact: An Evidence from Khyber Pakhtunkhwa, Pakistan. Xi'an Shiyou Daxue Xuebao (Ziran Ban)/Journal of Xi'an Shiyou University Natural Science Edition. 19 (3). 430-445.
Source URL: <http://xisdjxsu.asia>
16. Ayesha Khan, Ghulam Farooq, Urooba Pervaiz, **Muhammad Zafarullah Khan** and Mahmood Iqbal. **2023**. Identification of Factors Causing Communication Gap among Farmers, Extension Personnel and Researchers in Khyber Pakhtunkhwa-Pakistan: Farmer's perspective. Xi'an Shiyou Daxue Xuebao (Ziran Ban)/Journal of Xi'an Shiyou University Natural Science Edition. 19 (3). 90-103 Source URL: <http://xisdjxsu.asia>
17. Ejaz Ul Haq, Urooba Pervaiz, **Muhammad Zafarullah Khan** and Ayesha Khan. **2022**. An Assessment of Off-Season Vegetables Production in

District Peshawar, Khyber Pakhtunkhwa. Sarhad Journal of Agriculture (SJA) 38(4): 1443-1451

DOI | <https://dx.doi.org/10.17582/journal.sja/2022/38.4.1443.1451>

18. Hamida Bibi, Abdul Basit, Dilawar Farhan Shams, **Muhammad Zafarullah Khan**, Mudassar Iqbal and Sajid Ullah. **2022**. Utilization of Municipal Solid Waste Compost for the Improvement of Microbial Biomass, N-Mineralization and Fertility of Soil under Maize Crop. Applied Research in Science and Technology 02(02): 100-105.
DOI : <https://doi.org/10.33292/areste.v2i2.26>

19. **Muhammad Zafarullah Khan**, Ayesha Khan, Urooba Pervaiz , Arshad Farooq and Raheel Saqib. **2022**. The Role of Agricultural Extension Workers' Competency in Climate Scenarios through Farm Services Centers (FSCs) in Improving the Yield and Performance of Targeted Farming Community (A Case Study of Khyber Pakhtunkhwa, Pakistan) The 7th International Conference on Climate Change 2021. **IOP Conf. Series: Earth and Environmental Science** 1016 012010 DOI:10.1088/1755-1315/1016/1/012010

20. **Muhammad Zafarullah Khan**, Saddam Hussain, Urooba Pervaiz, Ayesha Khan Tariq Ahmad, Shah Saud and Mehmood Iqbal. **2022**. Farmers' Perception about Plant Protection Skills of Field Extension Workers in Enhancing Tomato Production of District Peshawar Khyber Pakhtunkhwa, Pakistan. Open Global Scientific Journal 01 (02): 48-56. DOI: <https://doi.org/10.33292/ogsj.v1i2.8>

21. **Muhammad Zafarullah Khan**, Tariq Ahmad, Ayesha Khan, Urooba Pervaiz and Raheel Saqib. **2022**. The Plant Protection Cabalities of Extension Workers in Enhancing Maize (*Zea mayz L.*) Production: A Case Study of District Shangla Khyber Pakhtunkhwa, Pakistan. Applied Research in Science and Technology Journal. 02 (01): 15-24. DOI: <https://doi.org/10.33292/areste.v2i1.19>

22. Ayesha Khan, Mohammad Tariq Aziz, Urooba Pervaiz & **Muhammad Zafarullah Khan**. **2022**. Farmer's Access to ICTs Tools and Productivity Enhancement in District Charsadda, Khyber Pakhtunkhwa. Sarhad Journal of Agriculture (SJA) , 38(3): 1035-1043.
DOI | <https://dx.doi.org/10.17582/journal.sja/2022/38.3.1035.1043>.

23. Arshad Farooq, Muhammad Ishaq, Abdul Hassan, **Muhammad Zafarullah Khan** and Asif Nawaz. **2022**. Assessment of Agricultural Knowledge Level Increased Among the Mobile Phone Users in Khyber Pakhtunkhwa of Pakistan.Sarhad Journal of Agriculture (SJA), 38(2): 751-758
DOI | <https://dx.doi.org/10.17582/journal.sja/2022/38.2.751.758>

24. **Muhammad Zafarullah Khan**, Tariq Ahmad,Ayesha Khan, Urooba

Pervaiz and Raheel Saqib. **2022**. The Plant Protection Capabilities of Extension Workers in Enhancing Maize (*Zea mays* L.) Production: A case study of District Shangla Khyber Pakhtunkhwa, Pakistan. *Journal of Applied Research in Science and Technology Indonesia* 02 (01): 15-23
DOI : 10.33292/areste.v2i1.19

25. **Muhammad Zafarullah Khan**, Shah Saud Ahmad, Ayesha Khan, U. Pervaiz, Shah Saud, Mehmood Iqbal and Muhammad Arshad Farooq. **2020**. Effect of Farm Services Center Approach on Yield of Selected Vegetables in District Charsadda *Int. J. Agri. and Env Res.(IJAER)* 6(3): 185-190. <https://ijaaer.com/ojs/index.php/ijaaer/article/view/318/179>.

26. Asif Nawaz, **Muhammad Zafarullah Khan**, Rehmat Ullah, Arshad Farooq and Abdul Hassan. **2020**. Assessment of Weed Management Competency of Field Assistants in Khyber Pakhtunkhwa, Pakistan. *Sarhad Journal of Agriculture. (SJA)* 36(3): 798-805.

DOI | <http://dx.doi.org/10.17582/journal.sja/2020/36.3.798.805>

27. Abdus Salam and **Muhammad Zafarullah Khan**. **2020**. Farmers' Perception Analysis about the Use of Information and Communication Technologies (ICT) in Agriculture Extension services of Khyber Pakhtunkhwa. *Sarhad Journal of Agriculture (SJA)* 36(3):754-760.

DOI <http://dx.doi.org/10.17582/journal.sja/2020/36.3.754.760>

28. Arshad Farooq, **Muhammad Zafarullah Khan**, Abdul Hassan, Muhammad Ishaq, Asif Nawaz. **2020**. Influence of Farmers' Characteristics on Knowledge gap of Recommended Practices on Sugar Cane Production Technology in Khyber Pakhtunkhwa, Pakistan. *Sarhad Journal of Agriculture (SJA)* 36(2): 714-721.

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