

CURRICULUM VITAE

Dr. Muhammad Azim Khan

Associate Professor & Chairman

Department of Weed Science

The University of Agriculture, Peshawar- Pakistan 25100

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Personal Information

Born on December 08, 1975 at District Lakki Marwat, KP, Pakistan

Education

- | | | |
|----------------|--|------|
| 1. Post-doc: | AACF, Alberta, Canada | 2008 |
| 2. PhD: | The University of Agriculture Peshawar, Pakistan | 2006 |
| 3. M.Sc. (H): | The University of Agriculture Peshawar, Pakistan | 2003 |
| 4. B. Sc. (H): | Gomal University D.I. Khan, KP, Pakistan | 2000 |

Experience as teacher, researcher and education administrator **13 Years**

Designation/Post held	BS	Appointment held
Lecturer	17	18-01-2005 to 12-01-2007
Lecturer	18	13-01-2007 to 11-01-2009
Assistant Professor	19	12-01-2009 to 29-05-2012
Associate Professor	20	30-05-2012 – till date

ADMINISTRATION

Designation/Post held	BS	Appointment held
Chairman	20	July 11, 2012 – till date
Incharge/Head of Department	19	November 13, 2010 to July 10, 2012
Staff Proctor	19	July 28, 2010 - July 28, 2011
Deputy Director, Advanced Studies and Research	20	August 20, 2010 - till date
Warden, Foreign Faculty and STRC Guest House	20	August 2, 2010 - August, 2013

PROFESSIONAL SOCIETIES MEMBERSHIP

- International Weed Science Society (Life member)
- National Environmental Science Academy of India (Life Member)
- Weed Science Society of Pakistan (Life Member)
- Pakistan Botanical Society (Life Member)
- Asia-Pacific Weed Science Society (APWSS)

- Arab Society of Plant Protection (ASPP)
- Near East Weed Science Society (NEWSS)
- Alternative Resources Center (ARC), Pakistan
- Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEEES)
- Member, Agricultural University Teachers Foundation (AUTF)

PROFESSIONAL GOALS

- To find out the sustainable, environmentally safe and economically viable weed management strategies for vegetables and crops.
- Impart quality education in ecology, weed science and environment to the graduate and undergraduate students.

SERVICES

1. Resource person for Pakistan Academy of Rural Development (PARAD)
2. Focal person in Weed Science department for Planning and Development
3. Member, Board of Studies in Weed Science
4. Member, Board of Studies in Plant Protection
5. PhD. Examiner, Gomal University D.I. Khan
6. Member, Selection Board, Gomal University, D.I. Khan
7. Member, Purchase committee in Weed Science department
8. Member, departmental discipline committee in Weed Science
9. Member, Board of Advanced Studies and Research
10. Member, Academic Council, University of Agriculture, Peshawar

EDITOR/ REFEREE

1. Editor, Pak. Journal of Weed Science Research
2. Editor, Sarhad Journal of Agriculture
3. Editor, Journal of Agri-Food and Applied Sciences
4. The Journal of Natural and Applied Science
5. Reviewer, Journal of Agric. Extension and Rural Development
6. Reviewer, Bulletin on Agricultural Science (India)
7. Reviewer, Pest Technology
8. Reviewer, Journal of Medicinal Plant Research
9. Reviewer, Journal of Plant Breeding and Crop Science
10. Reviewer, Pakistan Journal of Agriculture Sciences
11. Reviewer, African Journal of Pharmacy and Pharmacology
12. Reviewer, The Philippine Agricultural Scientist
13. Reviewer, Pakistan Journal of Botany

Computer Driving License)

ICDL (International)

Three months training in computer (Online from UK)

AWARDS RECEIVED

Best University Teacher Award, HEC (2014/15)
Gold Medal (Pakistan Academy of Sciences 2010)
Award of Environmentalist of the year (2010) by National Environmental Science Academy of India
Research Productivity Award 2012 (PCST)
Research Productivity Award 2011 (PCST)
Research Productivity Award 2010 (PCST)
Post-Doc fellowship, sponsored by HEC
First Position in M.Sc Hons. Weed Science
Second position in B.Sc. Hons. Agronomy
Best Presentation Award (International) in 9th ACPP at Damascus, Syria (November 2006)

ADDITIONAL PROFESSIONAL TRAININGS

1. Three Months training in Computer skills, during winter, 1999.
2. One Week Training Workshop “Training in Weed Science”
October 2001 at NWFP Agricultural University Peshawar
sponsored by U.G.C. H-9 Islamabad.
3. One Week Training “Training in Latest Developments in Molecular Biology &
Biotechnology” at U.G.C. Regional Office Lahore, 2001.
4. One week training “Training in Designing Crop Experiments” at Department of Agronomy,
NWFP Agricultural University Peshawar, 2003
5. One week training “Conducting Crop Experiments & Experimental Techniques “Training in
Designing Crop
Experiments” at Department of Agronomy, NWFP Agricultural University Peshawar, 2003.
University, Peshawar.
6. Five day course on “Information Technology & Computer Application in Public Sector
Organization” September 20-24, 2004. at PARD, Peshawar.
7. Attended training on “Advances in Plant Ecology” in University of Karachi July 2006.
8. Three Months Certificate in Faculty Development Program at Higher Education Commission,
Islamabad June 13 to September 09, 2006.)
9. PC-1 Development: 3-Days Training, NWFP Agric. Univ. Peshawar (16-18 July, 2007)
10. International Workshop on Web-based tools for plant science research, HEC-British Council
Links Program, NWFP Agric. Univ. Peshawar: 4 days training (April 16-19th, 2007).
11. Environmental Impact Assessment of Agriculture, Livestock and Fisheries sector projects;
EPA, NWFP, Peshawar. (February 12-16, 2007)
12. Intel Teach Program Essential Course: 4-8 Sept. 2007, University of Karachi
13. Development of sustainable and collaborative research networks. British Council-Higher
Education Commission. Talented researchers exchange program. October 21-22, 2010.
KPK Agricultural University Peshawar.
14. Training of Master Trainers (ToT), LID, Higher Education Commission, HEC Regional
Center Lahore, November 1-4, 2010.
15. Faculty Professional Development program. Asian Institute of Technology, Thailand,
March 6-25, 2011.
16. International short course on Allelopathy-2011: Modern allelopathy research methods. July
27-August 1, 2011. Northeast Agricultural University, Harbin, China.
17. Referencing and EndNote. February 25, 2012, NUST, Islamabad.

18. Managing patentable research. November 10, 2012, IRP, Lahore. Agric. Univ. Peshawar
19. Two days orientation and training workshop on GIS/RS, January 09-10, 2013, University of Peshawar.
20. Data analysis technique for crops, animals and social sciences, February 06, 2014. University of Agriculture Peshawar,
21. 3rd Biosafety training workshop for young scientists, January 28, 2014. UoA, Peshawar
22. Technical writing and publishing in scientific journals. By Dr. Edward Robert, Chinese Academy of Sci. The Univ. of Agriculture Peshawar. May 14, 2014.

INTERNATIONAL CONFERENCES/WORKSHOPS ATTENDED

1. Attended 4 days First International Weed Science Conference October 23-26, 2003 at NWFP Agricultural Univ. Peshawar
2. Presented paper in Annual Meeting of WSSP held in October, 2003 in Peshawar.
3. Presented paper in 6th National Weed Science Conf. March, 2005, Peshawar
4. Presented paper in 20th APWSS, Conference, Vietnam November 2005
5. Workshop for in-service teacher's of Botany. August 9-14, 2005. The University of Agriculture Peshawar.
6. Presented paper in 2nd WSSP, International Weed Science Conference, March 20-22, 2006, Rawalpindi.
7. Presented paper in 9th Arab Congress of Plant Protection (ACPP), 19-23 November, 2006 at Damascus, Syria
8. Presented paper in 5th International Weed Science Congress June 2008 at Vancouver, Canada
9. Presented paper in Taibah International Chemistry conference -2009 at Al-Madinah Al-Munawarah, Saudi Arabia
10. Presented paper in "Advance in Agriculture Prospects and Potentials of Natural Recourses in Food Security" 11-13 August 2009, University of Azad Jammu & Kashmir, Faculty of Agriculture Rawalakot
11. Presented scientific paper in 22nd Asian Pacific Weed Science Society, March 8-12, 2010 at Lahore Pakistan.
12. Climate Change and sustainability of Agro-Environment: Challenges and Interventions, June 3-4, 2010 at PMAS-Arid Agric. Univ. Rawalpindi
13. Technological interventions for food and environment security. June 28 – July 2, 2010, Bara Gali, Abbottabad.
14. Utilization of modern agriculture technology in changing environmental perspectives. 21-23 July, 2010, Faculty of Agriculture, Rawalakot, AJK
15. Biodiversity is our life. Shah Abdul Latif University, Khairpur, Sindh, Pakistan, December 29-31, 2010.
16. 3rd International Weed Science Congress, April 18-20, 2011, Agricultural university Peshawar
17. Climate change, Agri-Food, Fisheries and Ecosystems. May 19-21, 2011, Agadir, Morocco.
18. 23rd Asian-Pacific Weed Science Society conference "Weed management in changing world". September 26-29, 2011, The Sebel Cairns, Queensland, Australia.
19. Ensuring food security through prevention of biodiversity loss" COMSTECH, Islamabad, April 18-20, 2012.
20. International workshop on "Green Economy", COMSTECH, Islamabad May 16-18, 2012.
21. 2013 Annual meeting/conference of Weed Science Society of America, Baltimore, Maryland, February 04-07, 2013.

22. Two days Symposium on “Application of frontier technologies and climate change. November 29-30, 2013, SBB University Sheringal, Upper Dir, KPK
23. International conference on Asian Monsoon and Climate Change, January 20-21, 2014, CIIT, COMSATS, Serena Hotel, Islamabad.
24. 4th International and 13th National Conference of PBS", held at SBBU Sheringal, Upper Dir” KPK, Pakistan, Aug 26-28, 2014.
25. 5th International and 12th National conference of Weed Science Society of Pakistan. June 12-14, 2015, SBB University Sheringal, upper Dir, KPK, Pakistan.
26. International Conference on Mountains and Climate change, September 17–19, 2015, KIU, Gilgit, Pakistan.
27. 5th International / 10th National Conference of Pakistan Phytopathological Society, held at Institute of Agricultural Sciences, University of the Punjab, from 23 to 25 November 2015.

PUBLICATIONS

100 Research papers in Impact factor/HEC recognized journals

COURSES TAUGHT

Applied Weed Science, General Weed Science, Plant Ecology-I, Plant Ecology II
Introduction to Chemical Weed Control, Weed Ecology, Weed Physiology, Introduction to weed science, Advanced Weed Ecology, Weed Management in Lawns, Integrated Weed Management, Biodiversity in Ecosystem, Invasive Weeds and climate change, Allelopathy, Medicinal Plants

Undergraduate students supervised and awarded degree (12)

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|-------------------|-------------------|------------------|------------------|
| 1. M. Saeed | 2. Haroon Khan | 3. Sumaira Sadaf | 4. Noor Wali Kh |
| 5. Muhammad Yasir | 6. Anwar Nawaz | 7. Tamanna Bakht | 8. Rahamdad Khan |
| 9. Umm-e-Kalsoom | 10. Abrar Ahmad | 11. Abbas Ali | 12. Arif Ullah |
| 13. Laila Waris | 14. Ambreen Waris | 15. Jan Sher | 16. Fayaz |
| 17. Zeshan Aziz | | | |

Graduate students (M.Sc. (Hons/M.Phil) supervised and awarded degree (10)

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|----------------------------------|-----------------------|-------------------------------|
| 1. Waheed Ullah | 2. Shafaq Ahsan | 3. Masooma Tariq |
| 4. Anwar Nawaz | 5. Siraj ud Din Kakar | 6. Rahamdad Khan |
| 7. Umm-e-Kalsoom | 8. Abbas Ali | 9. Shaheen Kashmir, (M. Phil) |
| 10. Muhammad Asif Raza (M. Phil) | | |

Graduate students (M.Sc. (Hons) supervision (in progress)

1. Tasneem ur Rehman

PhD Produced (Awarded degree)

1. Mr. Muhammad Riaz Afridi (completed)
2. Miss. Umm-e-Kalsoom (in progress)

Member of PhD supervisory Committee/Co supervisor

1. Muhammad Zafarullah Khan
2. Haroon Khan
3. Miss Shahida Bibi

Experience related to Statutory Bodies

Member Board of Studies in Weed Science (January 20, 2007 till date)
Member Board of Studies in Plant Protection (January, 2010 -2013)
Member Board of Studies in Agricultural Chemistry (April 2010 to 2013)
Member Board of Advanced studies and Research
Member, Academic Council (Governor Nominee)
Focal person for Planning and Development (July 2005-2008)
Member, Agricultural University Teachers Foundation (AUTF)

Trainings Organized

1. One week teachers' training on "Biodiversity and Weed Science" December 11-16, 2006 sponsored by HEC.
2. Cascading of AIT Based Training Program "Ensuring Training Effectiveness" (July 04-06, 2012) Agricultural university Peshawar

Services to Community

1. Weed management in Taxila Archeological sites
2. Weed management expert for Pakistan tobacco Board
3. Weed identification for Police department, KPK

Countries visited

- | | | | | |
|------------|-------------|--------------|-------------|-----------------|
| 1. USA | 2. Canada | 3. Australia | 4. Morocco | 5. Saudi Arabia |
| 6. Vietnam | 7. Malaysia | 8. Syria | 9. Thailand | 10. China |

RESEARCH PROJECTS

Principal Investigator/ Lead Supervisor of Research Projects:

Completed

1. Domestic, foreign and religious surveys of NWFP, Sponsored by Ministry of Tourism, Islamabad, Pakistan: 2007: (Rs. 0.30 Million).
2. Soil solarization: A Non-Chemical Weed Management Approach in Cash Crops", funded by AUP-HEC: 2007 (Rs. 0.20 Million).
3. Soil fertility and Economic benefits of maize-legume intercropping and weed suppression by inter-row cultivation (Sponsored by HEC, Islamabad (Rs. 0.913 Million).

4. Prediction of grain yield losses and implications for economic weed management in Khyber Pakhtunkhwa, PARC/ALP (Rs. 5.69 Million)

On-going project

1. The long-term effects of tillage, nutrients and weed management on sugar beet yield and weed seed bank (HEC, Rs. 2.2 Million).
2. Conservation and cultivation of Medicinal Plants at high altitude of Pakistan (ALP/PARC Rs. 4.8 Million).

Co-Principal Investigator

1. Environment friendly weed management in vegetables. Sponsored by Higher Education Commission (HEC), Islamabad. Rs. 2.217 Million (Jan 2014-December 2016).
2. Evaluation and cultivation of Jatrohpa in KPK. (Directorate of Science and Technology, KP, Pakistan (Directorate of Science and Technology, KPK. Rs. 3.00 Million).

1. AUTHOR OF BOOK/ BOOK CHAPTERS

BOOK CHAPTERS

1.

Title: Sustainable management of rice blast [*Magnaporthe grisea* (Hebert) Barr]: 50 years of research progress in molecular biology

Authors: S. Nandy, N. Mandal, P. K. Bhowmik, **M.A. Khan** and S. K. Basu

Publishers: CABI International 2010. Sustainable Management of rice blast (*Magnaporthe grisea*): 50 years of research progress in molecular biology.

Editors: Arya, A.; Perello, A. E.
ISBN 978-1-84593-603-7

2.

Title: Impact of climatic change on flora of high altitude of Pakistan. *In: Climate Change Impacts on High-Altitude Ecosystems.* By Ozturk, M., Hakeem, K.R., Faridah-Hanum, I., Efe, R. (Eds.).

Authors: **Muhammad Azim Khan**, Bakhtiar Gul and Haroon Khan

Publisher: **Springer** 2015 Pages: 361-381, ISBN 978-3-319-12858-0
(<http://www.springer.com/life+sciences/ecology/book/978-3-319-12858-0>)

3.

Title: Allelopathy as environment friendly weed management approach: problems and opportunities

Authors: **Muhammad Azim Khan** and Muhammad Ishfaq Khan

Publisher: Scientific Publishers, Jodhpur, Rajasthan, India (**in Press**) *In: Arya, A. O. and S.K. Basu. 2015. Environment at cross roads: Challenges and sustainable solutions.*

BOOK

1.

Title: Crop-Weed Competition:
Authors: Muhammad Azim Khan and Khan Bahadar Marwat
Publishers: LAP Lambert Academic Publishing AG & CO., Germany (2010).
ISBN 978-3-8433-6195-8

NATIONAL AND INTERNATIONAL PUBLICATIONS OF MUHAMMAD AZIM KHAN

IMPACT FACTOR PUBLICATIONS

2006

1. **Muhammad Azim Khan** and K.B. Marwat. 2006. Impact of crop and weed densities on competition between wheat and *Silybum marianum*. *Pakistan Journal of Botany* 38 (4):1205-1215.

2007

2. K.B. Marwat and **Muhammad Azim Khan**. 2007. Climatic variation and growth of Holy Thistle (*Silybum marianum* Gaertn.). *Pakistan Journal of Botany* 39 (2): 319-327.
3. Marwat, KB., M. Arif and **Muhammad Azim Khan**. 2007. Effect of tillage and Zn application methods on weeds and yield of maize. *Pakistan Journal of Botany* 39(5): 1583-1591.

2008

4. Arif, M., M.T. Jan, K.B. Marwat and **Muhammad Azim Khan**. 2008. Seed priming improves emergence and yield of soybean. *Pakistan Journal of Botany* 40(3): 1169-1177.
5. K.B. Marwat, **Muhammad Azim Khan**, A. Nawaz and A. Amin. 2008. *Parthenium hysterophorus* L.: A potential source of bioherbicide. *Pakistan Journal of Botany* 40 (5): 1933-1942.

2009

6. **Muhammad Azim Khan**, R.E. Blackshaw and K.B. Marwat. 2009. Biology of Milk thistle and management options for growers in northwest Pakistan. *Weed Biology and Management* 9(2): 99-105.
7. Khan, NU., G. Hassan, M. B. Kumbhar, K. B. Marwat, **Muhammad Azim Khan**, A. Parveen, Umm-e-Aiman and M. Saeed. 2009. Combining ability analysis to identify suitable parents for heterosis in seed cotton yield, its components and lint % in upland cotton. *Industrial Crops and Products* 29: 108-115.
8. Bakhtiar Gul, K. B. Marwat, G. Hassan, **Muhammad Azim Khan**, S. Hashim and I.A. Khan. 2009. Impact of tillage, plant population and mulches on biological yield of maize. *Pakistan Journal of Botany* 41 (5): 2243-2249.

2010

9. M. Saeed, K.B. Marwat, G. Hassan, **Muhammad Azim Khan** and I.A. Khan. 2010. Interference of horse purslane (*Trianthema portulacastrum* L) with maize (*Zea mays* L.) at different densities. *Pakistan Journal of Botany*. 42(1): 173-179.
10. Mohammad Arfan, Hazrat Amin, Inamullah Khan, **Muhammad Azim Khan**, Nasiara Karim, and Fazal-ur-Rehman. 2010. Analgesic and antiinflammatory activity of 11-*O*-gallobergenin. *Journal of Ethnopharmacology* 131(2): 502-504.
11. Khalid Usman, S. K. Khalil, A. Z. Khan, I. H. Khalil and **Muhammad Azim Khan**. 2010. Tillage and herbicides impact on weed control and wheat yield under rice-wheat cropping system. *Soil and Tillage Research*. 110 (1): 101-107.

2011

12. K.B. Marwat, **Muhammad Azim Khan**, S. Hashim, K. Nawab and A.M. Khattak. 2011. Integrated weed management in wheat. *Pakistan Journal of Botany* 43(1): 625-633.
13. A. M. Khattak, S. Pearson, **Muhammad Azim Khan**, K. Nawab and K. B. Marwat. 2011. The effects of light quality and temperature on the growth and development of geraniums. *Pakistan Journal of Botany* 43(1): 679-688.
14. Khalid Nawab, Amanullah, Paigham Shah, Abdur Rab, Muhammad Arif, **Muhammad Azim Khan**, A. Mateen and F. Munsif. 2011. Impact of integrated nutrient management on growth and grain yield of wheat under irrigated cropping system. *Pakistan Journal of Botany* 43(4): 1943-1947.
15. Khalid Nawab, Amanullah, Muhammad Arif, Paigham Shah, Abdur Rab, **Muhammad Azim Khan**, M. Anwar Khan and Khalid Khan. 2011. Effect of FYM, potassium and zinc on phenology and grain yield of wheat in rainfed cropping systems. *Pakistan Journal of Botany*, 43(5): 2391-2396.

2012

16. **Muhammad Azim Khan**, K. B. Marwat, A. Amin, A. Nawaz and H. Khan. 2012. Soil solarization: an organic weed management approach in cauliflower. *Communication in Soil Science and Plant Analysis*. 43 (13): 1847-1860.
17. Haroon Khan, K.B. Marwat, G. Hassan and **Muhammad Azim Khan**. 2012. Chemical control of *Parthenium hysterophorus* at different growth stages in non-cropped area. *Pakistan Journal of Botany* 44 (5): 1721-1726.

2013

18. Khan, R., **Muhammad Azim Khan**, S. Sultan, K. B. Marwat, I. Khan, G. Hassan and H. U. Shah. 2013. Nutritional quality of sixteen terrestrial weeds for the formulation of cost-effective animal feed. *The Journal of Animal and Plant Sciences*, 23(1 Suppl.): 75-79.
19. **Muhammad Azim Khan**, S. Kakar, K.B. Marwat and I.A. Khan. 2013. Differential response of *Zea mays* L. in relation to weed control and different macronutrient combinations. *Sains Malaysiana* 42(10): 1405-1411.

20. **Muhammad Azim Khan**, K. B. Marwat, Umm-e-Kulsoom, Z. Hussain, S. Hashim, Abdur Rab and K. Nawab. 2013. Weed control effects on the wheat-pea intercropping. **Pakistan Journal of Botany** 45 (5): 1743-1748.
21. Z. Hussain, K.B. Marwat, **Muhammad Azim Khan**, S. Hashim and T. Bakht. 2013. How the competition of *Xanthium strumarium* L. affects the phenological characters of maize crop. **Pakistan Journal of Botany**, 45(6): 1883-1887.
22. M. A. Shah, S. M. Abdullah, **Muhammad Azim Khan**, H. Amin and Roohullah. 2013. In silico molecular mechanism of cannabigerol as a cyclooxygenase-2 inhibitor. **Bangladesh Journal of Pharmacology** 8: 410-413.

2014

23. M. A. Shah, S. M. Abdullah, **Muhammad Azim Khan**, G. Nasar and I. Saba. 2014. Antibacterial activity of chemical constituents isolated from *Asparagus racemosus*. **Bangladesh Journal of Pharmacology** 9: 1-3.
24. Haroon Khan, K. B. Marwat, **Muhammad Azim Khan** and S. Hashim. 2014. Distribution of Parthenium weed in Peshawar Valley, Khyber Pakhtunkhwa- Pakistan. **Pakistan Journal of Botany** 46(1): 81-90.
25. Haroon Khan, K. B. Marwat, **Muhammad Azim Khan** and S. Hashim. 2014. Herbicidal control of parthenium weed in maize. **Pakistan Journal of Botany** 46(2): 497-504.
26. Bakhtiar Gul, K.B. Marwat, **Muhammad Azim Khan** and H. Khan. 2014. Impact of tillage, plant population and mulches on phenological characters of maize. **Pakistan Journal of Botany** 46(2): 549-554.
27. Saima Hashim, A. Jan, K.B. Marwat and **Muhammad Azim Khan**. 2014. Phytochemistry and medicinal properties of *Ammi visnaga* (Apiaceae). **Pakistan Journal of Botany** 46(3): 861-867.
28. **Muhammad Azim Khan**, K. B. Marwat, B. Gul, F. Wahid, H. Khan and S. Hashim. 2014. *Pistia stratiotes* L. (Araceae): Phytochemistry, use in medicines, phytoremediation, biogas and management options. **Pakistan Journal of Botany** 46(3): 851-860.
29. M.K. Daud, Lei Mei, N. Ullah, F. Deebea, I. Raza, S. Zhu, **Muhammad Azim Khan** and A. Batool. 2014. In-vitro cadmium-induced alterations in growth and oxidative metabolism of upland cotton (*Gossypium hirsutum* L.). **The Scientific World Journal**. Volume 2014, Article ID 309409, 10 pages <http://dx.doi.org/10.1155/2014/309409>.
30. R. A. Afridi, **Muhammad Azim Khan**, H. Gul and M.K. Daud. 2014. Allelopathic influence of rice extracts on phenology of various crops and weeds. **Pakistan Journal of Botany** 46(4): 1211-1215.
31. Riaz Ahmad Afridi and **Muhammad Azim Khan**. 2014. Reduced herbicide doses in combination with allelopathic plant extracts suppress weeds in wheat. **Pakistan Journal of Botany** 46(6): 2077-2082.

2015

32. Riaz Ahmad Afridi and **Muhammad Azim Khan**. 2015. Comparative effect of water extract of *Parthenium hysterophorus*, *Datura alba*, *Phragmites australis* and *Oryza sativa* on weeds and wheat. **Sains Malaysiana** 44(5): 693-699.
33. Wahid, F., Muhammad S., **Muhammad Azim Khan**, Amjad A, A. M. Khattak and A. R. Saljoqi. 2015. Addition of rock phosphate to different organic fertilizers influences phosphorus uptake and wheat yield. **Ciência e Técnica Vitivinícola Journal**. 30 (3): 90-100.
34. Syed, S., **Muhammad Azim Khan**, M. I. Al-Haq, M. H. Siddiqui, R. Qureshi and Y. Fujii. 2015. *Sarcococca saligna* (Muell.-Arg.) exhibits residual allelopathy. **JoKULL Journal** 65 (7): 46-53.
35. **Muhammad Azim Khan**, F. Wahid, Umme-Kulsoom, K. B. Marwat, B. Gul, M. Inayatullah, A.M. Khattak and S.A. Khan. 2015. Evaluating the threshold levels of *Neslia apiculata* in wheat and its effects on crop yield losses in swat valley of Khyber Pakhtunkhwa. **Pakistan Journal of Botany**. 47(SI): 87-91.
36. Umm-e-Kulsoom and **Muhammad Azim Khan**. 2015. Prediction of grain yield losses in wheat (*Triticum aestivum* L.) under different densities of wild oats (*Avena fatua* L.). **Pakistan Journal of Botany**. 47(SI): 239-242.
37. H. Khan, Adil, B. Gul, **Muhammad Azim Khan**, and K. B. Marwat. 2015. Efficacy of aqueous extracts of different allelopathic plants on germination and growth of wheat and wild oat seeds. **Pakistan Journal of Botany**. 47(SI): 181-185.
38. M. Sharif, Matiullah Khan, **Muhammad Azim Khan**, F. Wahid, K.B. Marwat, A.M. Khattak and M. Naseer. 2015. Effect of rock phosphate and farmyard manure applied with effective microorganisms on the yield and nutrients uptake of wheat and sunflower. **Pakistan Journal of Botany**. 47(SI): 219-226.

NATIONAL AND INTERNATIONAL/HEC Recognized

1. Shah, W.A., J. Bakht, M. Shafi and **Muhammad Azim Khan**. 2001. Forage performance of different cultivars of wheat, oat and barley under rainfed condition. **Pak. J. Biol. Sci.** 4 (5): 516-518.
2. Shah, W.A., J. Bakht, M. Shafi and **Muhammad Azim Khan**. 2002. Yield and yield components of different cultivars of wheat, oat and barley under rainfed condition. **Asian J. Plant Sci.** 1(2):148-150.
3. N. Khan, A. Jan, I. A. Khan, **Muhammad Azim Khan** and Ihsanullah. 2002. Response of wheat cultivars to varying seeding rates under rainfed conditions. **Asian J. Plant Sci.** 1(4):343-345.
4. **Muhammad Azim Khan**, K. B. Marwat, G. Hassan and N. Khan. 2002. Impact of Weed Management on maize planted at night. **Pak. J. Weed Sci. Res.** 8(1-2): 57-62.
5. **Muhammad Azim Khan**, G. Hassan, W.A. Shah and M. Z. Afridi. 2002. Duration effect of weed competition on the yield and yield components of wheat. **Sarhad J. Agric.** 18(3): 335-337.

6. **Muhammad Azim Khan**, K.B. Marwat, G. Hassan and W.A. Shah. 2002. Effect of different weed free periods on the growth and yield of wheat. Pak. J. Agri., Agril. Eng. Vet. Sci. 18(1-2):30-33.
7. M. Z. Afridi, M.T. Jan, I. Ahmad and **Muhammad Azim Khan**. 2002. Yielding components of canola response to NPK nutrition. Pak. J. Agron. 1(4): 133-135.
8. **Muhammad Azim Khan**, K. B. Marwat, N. Khan and I. A. Khan. 2003. Efficacy of different herbicides on the yield and yield components of maize. Asian J. Plant Sci. 2(3): 300-304.
9. N. Khan, G. Hassan, **Muhammad Azim Khan** and I. Khan. 2003. Efficacy of Different Herbicides For Controlling Weeds in Wheat Crop at Different Times of Application – I. Asian J. Plant Sci. 2(3): 305-309.
10. N. Khan, G. Hassan, K.B. Marwat and **Muhammad Azim Khan**. 2003. Efficacy of Different Herbicides For Controlling Weeds in Wheat Crop at Different Times of Application – II. Asian J. Plant Sci. 2(3): 310-313.
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