Raza Khan

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Website: https://scholar.google.com/citations?user=FObz1IUAAAAJ&hl=en

Website: https://publons.com/dashboard/records/publication/authored/

Website: https://www.researchgate.net/profile/Raza_Khan11/research

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ABOUT ME

“Working together for the betterment” Eager to work with international researchers on state of the art technology come up with science proven solution to deal with issues such as climate change and crop productivity, climate smart agriculture, and sustainable use of natural resource.

WORK EXPERIENCE

Principal Scientific Officer/Associate Professor

National Agricultural Research Centre, Pakistan Agricultural Research Council [11/08/2015 – Current]

Address: Islamabad (Pakistan)

City: Islamabad

Country: Pakistan

1. Design and develop post-graduate courses, keeping in the view the current day requirements of research.
2. Develop and manage funded research projects from idea inception, through data collection, analysis, interpretation, recommendations and completion to the funders’ satisfaction. -
3. Manage the technical and financial aspects of the research projects, i.e. managing cash flows’ timeliness finances and audit.
4. Conduct post-graduate teaching, covering major courses, i.e. soil fertility and plant nutrition, mineralogy.
5. Supervise soil advisory service of the institute.
6. Develop joint research program for China and Nepal under joint working Group and Pak China orking Group.
7. Supervised internee students research in internship Program.
8. Conducting field experiments and demonstration on integrated Plant Nutrients Management in wheat crop.
9. Conducted diagnostic soil survey of wheat growing district in KPK province to developing GIS based soil maps of nutrients status of the area.
10. Process the registration of soil lab. with Global Soil laboratory Network (GLOSOLAN), GSP, FAO

Senior Scientific Officer/Assistant Professor:
Pakistan Agricultural Research Council

Address: Islamabad (Pakistan)

1. Conducted field experiments and demonstration sites on agronomic biofortification of cereals With Zinc and peanut With Boron in ICARDA-USDA funded project on soil fertility and soil health.
2. Organized farmer field days on dissemination of results of best management practices to farmers in above project activity.
3. Conducted field experiments and demonstration sites on humic substances based and rational use of fertilizers in cereal production system in ALP-funded project.
4. Compilation of mid term and final annual report of project study.

Scientific Officer
Pakistan Agricultural Research Council, Karakuram Agriculture Research Institute [05/04/2001 – 09/06/2013]

Address: Gilgit (Pakistan)

Worked in remote and mountainous research setup of PARC in Northern Area development Program a multi-sectorial UNDP funded project on social up-left of Northern areas (NA's) and worked on .

Screening of winter wheat varieties for high productivity and yield in sub-mountainous area.

1. Farmers field experiments on fertilizer use efficiency of wheat across different varieties in NA's
2. Introduction of pulses into short window time before wheat sowing in Skardu, a mountainous at nearly high altitude of 2500 m.
3. Preparation of value added products from seabuckthorn (*Hippophae rhamnoides* L), a local bushy thorn of skardu area.
4. Setup basic soil and plant analytical laboratory in Juglot, Gilgit district, NA's.
5. Setup basic tissues culture laboratory in Chilas, district, NA's.

Lecturer
Allama Iqbal Open University, [01/10/2000 – 20/12/2000]

Address: Islamabad (Pakistan)

1. Tutorial and workshop to undergrad students
2. Revision of learning materials and courses
3. Paper and assignments marking etc.

LANGUAGE SKILLS

Mother tongue(s):

Pashto

English

LISTENING: C1 **READING:** C2 **UNDERSTANDING:** C2

SPOKEN PRODUCTION: C1

SPOKEN INTERACTION: C1

Latvian

LISTENING: A1 **READING:** A1 **UNDERSTANDING:** A1

SPOKEN PRODUCTION: A1 **SPOKEN INTERACTION:** A1

PUBLICATIONS

Formulation of humic substances coated fertilizer and its use to enhance K fertilizer use efficien.
[2019]
10.1080/01904167.2019.1568462.
J. Plant Nutri, 42:6,626-633.

Effect of Humic Acid on Growth and Crop Nutrients Status of Wheat on two Different Soils.
[2018]
10.1080/01904167.2017.1385807
J. Plant Nutri. 41(4):453-460.

Foliar Applied Phosphorus as Top Up Approach of Soil Applied Phosphorus to Wheat under Glasshouse
[2018]
http://dx.doi.org/10.17582/journal.pjar/2018/31.4.390.395
Pak. J. Agri. Res., 31(4): 390-395.

Response of Onion Yield under Field Conditions to Humic Substances Derived from Different Sources
[2017]
Pak. J. Agri. Res. 30(2): 149-154

Evaluation of various preparatory operations for analytical recovery of selected plant nutrients
[2018]
IJAA, 12(6): 11-19.

Chemical Composition of Lignitic Humic acid and Evaluating its Positive Impacts on Nutrients Uptake
[2014]
Pak. J. Chem. 4 (1): 19-25.

Metabolic Activities and Fruit Yield of Tomato as Influenced by Fulvic Acid
[2014]
10.15228/2014.v04.i01.p04
Pak. J. Chem. 4 (3): 101-108.

Characterization and Effect of Plant Derived Humic Acid on the Growth of Pepper under Glasshouse ..
[2013]
Pak. J. Chem. 3 (3): 134-139.

Response of Pinus radiata D. Done to Boron Fertilization in a Glasshouse Study
[2012]
10.1080/00103624.2012.670345
Commu. Soil Sci. Plant Anal. 1412-1426.

Wheat Response to Phosphorus Under Climatic Conditions of Juglot, Pakistan
[2010]
Sarhad J. Agri. 26(2): 229-233.

The Effect of Suspended solids on Disinfecting process for the Drinking water supply in Peshawar Va
[2007]

J. Chem. Soci. Pak. 29(2):121-124

Seabuckthorn (Hippophae rhamnoides L.) a magic plant found in Northern Areas
[2003]

Hamd. Medic. XLVI(3):20-22.

Effect of Different Soil Media and Irrigation Intervals on the growth of Aerial plant parts of Soph
[2002]

L. Asian J. Plan. Sci. 1(2):91-92.

Effect of Plant Derived Humic Substances on the Yield of Chickpea Grown in Greenhouse
[2020]
http://dx.doi.org/10.17582/journal.pjar/2020/33.2.321.326

Pak. J. Agri. Res. 33(2): 321-326.

Comparative Scheduling of Phosphorus Application for Enhancing Rice Yield and Efficiency Indices
[2019]
http://dx.doi.org/10.17582/journal.pjar/2020/33.1.72.77

Pak. J. Agri. Res. 33(1): 72-77.

CONFERENCES AND SEMINARS

Characterization of Coal and Plant Derived humic substances using FTIR and HPLC. 16th Int'l Congres
[Arid University Rawalpindi, Pakistan., 15/03/2016 – 17/03/2016]

esponse of Pinus radiata to Boron under Greenhouse Condition.
[Brisbane, Australia, 01/08/2010 – 06/08/2010]

Pinus radiata growth and Boron uptake response to Boron applied fertiliser in glasshouse study
[26/05/2010 – 28/05/2010]

Effect of slow-release boron fertiliser on Pinus radiata growth and photosynthesis under greenhouse
[Massey University, Palmerston North, New Zealand. , 10/02/2010 – 11/02/2010]

Effect of boron fertilizer on soil boron fractionation and availability in a soil under Pinus radia
[Joint conference of Australian and New Zealand soil Societies held in New Zealand, 01/12/2010 – 05/12/2010]

Boron deficiency in Rice in Pakistan: A serious constraints productivity and grain yield
[Agri. Uni. Faisalabad Pakistan, 18/09/2006 – 20/09/2006]

HONOURS AND AWARDS

Overseas Scholarship
Higher Education Commissioin, Govt of Pakistan [04/05/2007]

ORGANISATIONAL SKILLS

Organisational skills

1. While working in Northern Areas Development Program (NADP), a multi sectorial UNDP-GoP finance project, following activities were performed;

1. As member of Research and demonstration team conducted experiments and demonstration at different locations of Northern Areas on nutrients use efficiency in wheat crop.
2. Evaluated various wheat varieties for yield and productivity to classify high yielding wheat varieties.
3. Organized Farmers Field days For dissemination the findings of best management practices.

2. Humic substances based plant nutrients:

1. As team and Co-Principal Investigator in Agriculture Linkage Program (ALP funded project of Pakistan Agricultural Research Council (PARC) aimed at Development of humic substances based plant nutrients products.

3. Worked as Principal Investigator in ICARDA-USDA co-funded project on Soil Health and Soil Fertility on following tasks;

1. Micro nutrients (Boron) management in peanut crops in Chakwal district, a rain-fed district of Punjab province.
2. Micro nutrients (Zinc) management in wheat aimed at biofortification of wheat through agronomic approaches.
3. The research Findings were disseminated through farmers field days and printing of news letter and other printed materials.

4. Geo spatial mapping of Wheat growing areas soil

1. Carried out diagnostic soil survey of wheat growing area of Khyber Puktun Khawa (KPK) province , Pakistan. Soil samples were collected at multiple locations, at soil depth; 0-20 cm and 20-40 cm, air dried, sieved and process For chemical analysis such as macro and micro-nutrients such as nitrogen, phosphorus, and potassium along micro nutrients such as Zinc, Boron, and Iron. The data is being used to draw spatial maps using ArcGIS and R studio.

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Stakeholders listed below have been approached as below;

1. Policymakers/Monitoring Agencies: The group is being targeted through policy briefings, project reports and consultation meetings. A final output though project summary document detailing impact of climate resilient management practices and chasing UN-Sustainable development Goals (UN-SDG). Much of the dissemination to this group is likely to be on a briefing or consultation basis. This group is arguably the most important, as it is via this route that the results of this work may be incorporated in national policy.
2. Scientific peers – Dissemination to this group happens primarily through publication of scientific papers in peer-reviewed journals and conferences presentation. This group is important for validation and review of the approach, and collaboration. Suitable target journals include Science of the Total Environment, Agriculture, Ecosystems & Environment, Soil Use and Management.
3. Farmers: The results of the research are being translated in to easy and understandable advise for farmers through presentation of findings at farmer open days, science weeks. Frequency is critical in getting a message to this audience, and so dissemination will be performed often and via a number of simultaneous outlets.
4. General Public – The general public is a vital stakeholder group which is often overlooked in dissemination efforts. Policy is strongly influenced by this segment of population, and so it is important that they understand the science underpinning environmental quality. Dissemination to this group happens through popular press, podcasts/radio talk, and public talks.

EDUCATION AND TRAINING

BSc(Hons.), Soil Science, 4 years Program

NWFP, Agricultural University, Peshawar [12/03/1993 – 10/10/1997]

Address: Peshawar (Pakistan)

https://www.aup.edu.pk/

MSc (Hons.), Soil Science, 2 year Program

NWFP, Agricultural University [15/10/1997 – 30/11/1999]

Address: Peshawar (Pakistan)

https://www.aup.edu.pk/

PhD (Doctorate)

Lime & Fertiliser Reserach Centre, Institute of Natural Resouces, Massey University [12/12/2007 – 15/12/2012]

Address: Palmrston North (New Zealand)

https://www.massey.ac.nz/