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EDUCATION

- M. Sc.** 1966 University of Sindh, Pakistan Soil Science
Thesis: Salt tolerance in crop plants
Advisor: **Dr. Shaukat Ahmed**, Director, Atomic Energy Agri Res Centre, Tandojam
- M. Phil.** 1977 University of Sindh, Pakistan Botany
Thesis: Metabolic changes in wheat as affected by soil salinity
Advisor: **Dr. S. Ahmed Ala**, Professor, Department of Botany, University of Sindh
- Ph.D.** 1983 University of Sussex, England Biology
Thesis: Salt tolerance studies in some grasses
Advisor: **Dr. T.J. Flowers**, Professor, School of Life Sciences, University of Sussex

PROFESSIONAL EXPERIENCE.

I have more than 40 years of research / administration experience working at the Nuclear Institute of Agriculture (formerly Atomic Energy Agricultural Research Centre), Tandojam, Pakistan which is an establishment of the Pakistan Atomic Energy Commission in various capacities: Assistant Scientific Officer-1968 to 1971, Scientific Officer – 1971 to 1976, Senior Scientific Officer – 1976 to 1983, Principal Scientific Officer – 1983 to 1997, Chief Scientific Officer and Head Plant Physiology Division – 1997 to 2000, Director of the Institute – 2000 to 2002 and Advisor to Member Biosciences, PAEC– 2002 to 2004. Remained involved in planning and execution of research projects on various aspects of Plant Physiology / Soil Science / Agronomy / Agro forestry,

Main interest “Salt tolerance in plants and gainful utilization of saline lands”.

In August, 2005 I joined the Eco-physiology group, Botany Department, Karachi University, was subsequently hired by the Higher Education Commission as HEC Eminent Professor and posted at the Institute for Sustainable Halophyte Utilization, University of Karachi where I have since been working on Halophyte Biology. The HEC has recognized me as Ph.D. supervisor.

CURRENT RESEARCH INTERESTS

1. Exploiting the potential of halophyte as source of edible oil
2. Screening and eco-physiological studies of halophytic grasses for utilization as forage
3. Use of halophytic shrubs as alternate source of cattle fodder
4. Medicinal uses of halophytes
5. Potential of halophytes as energy (biofuel/biodiesel) crops

RESEARCH PROJECTS (COMPLETED)

i) Framers participatory saline agriculture development project:

The program aimed at using the existing knowledge as well as generate new knowledge where feasible, to find ways and means to utilize gainfully the saline / marginal lands through the involvement of affected farmers. Spread over all the four provinces of Pakistan, the program covered 25000 acres of problem lands (5000 at each site, there were two sites in Punjab and one each in Sindh, Balochistan and NWFP provinces) to implement the concept of saline agriculture for farmers benefit. The National Rural Support Program (NRSP) was involved in the socioeconomic survey of the project areas, to determine the success of the program. I served from September, 2002 to August, 2004 as Coordinator for the province of Sindh with project site in Badin.

ii) Salt tolerance in plants and gainful utilization of saline lands:

The study in collaboration with the International Atomic Energy (IAEA), Vienna, Austria, the CSIRO Division of Forestry, Canberra, Australia and the Australian Centre for International Agricultural Research (ACIAR), aimed at identifying suitable crop species / tress / shrubs for saline lands, which if continuously cultivated, may reduce salinity hazard. Physiological parameters like nutrition, ion / water relations were also under study. A number of promising species / cultivars / provenances were consequently identified.

iii) Salt tolerance studies in rice and wheat:

The study, which was in collaboration with the School of Biological Sciences, University of Sussex, U.K., and the International Rice Research Institute (IRRI), Philippines, aimed at studying physiological response of a large number of wheat / rice cultivars for a better understanding of the mechanisms of salt tolerance under rigidly controlled conditions. More than 150 lines of rice and 60 of wheat were under study in this program. The Australian National University, Canberra helped at the initial screening for Carbon discrimination in wheat. The study not only helped in understanding the physiology of salt tolerance but was also able to identify 10 accessions of rice which showed promise of withstanding fairly high salinity and use for release as new varieties.

INTERNATIONAL TRAVEL

Participation in the above program of research involved frequent interaction and exchange of visits between the collaborating scientists of different nationalities. This took me to the following countries: U.K., Austria, Germany, The Netherlands, Nepal, Sri Lanka, Singapore, Thailand, Vietnam, China, Philippines and Australia.

OTHER EXPERIENCE

From 1978 to 1980, I was financed by the International Atomic Energy Agency (IAEA), Vienna and from 1980 to 1982 by the British Council, London to work as a **Research Fellow with Professor T.J. Flowers at the School of Biological Sciences, University of Sussex, U.K. on aspects of salt tolerance in plants. This culminated in the award of Ph.D. degree to me.**

During May – August, 1986 I worked with Professors E.G. Niemann and D.Ernst, Institute of Biophysik, University of Hanover, F.R.G. on photosynthesis and chlorophyll fluorescence in plants under stress.

Involved with the teaching of graduate and undergraduate students of plant physiology at the University of Sussex, U.K., during 1980-1982.

Research advisor to post graduate students of the University of Karachi, University of Sindh, Jamshoro and Agriculture University, Tandojam, Pakistan.

Serving as reviewer of scientific papers submitted to many national/international research journals.

List of Publications

PUBLICATIONS IN JOURNALS (National)

1. Naqvi, S.M., A.R. Azmi and **R. Ansari**, 1967. Investigations on the use of Barisol as a phosphorus source for plants. *Sind Univ. Sci. Res. J.* 2:1-5.
2. **Ansari, R.**, 1972. Effect of salinity on some *Brassica* oilseed varieties. *Pak. J. Bot.* 4; 55-63.
3. Naqvi, S.M., **R. Ansari** and S.M. Shere, 1972. Phototropic response of decapitated coleoptiles. *Pak. J. Bot.* 4; 51-53.
4. **Ansari, R.**, 1973. Salt tolerance of some cotton (*Gossypium hirsutum* and *Gossypium arboreum*) varieties. *Sind Univ. Sci. Res. J.* 6; 69-75.
5. **Ansari, R.**, and Shaukat Ahmed, 1976. Response of some cultivars of sorghum and wheat to induced soil salinity. *The Nucleus.* 13; 35-41.
6. **Ansari, R.**, S.M. Naqvi and A.R. Azmi, 1977. Effect of salinity on germination, seedling growth and alpha amylase activity in wheat. *Pak.J.Bot.* 9; 166-166.
7. **Ansari, R.**, A.N. Khanzada. S.M. Naqvi and A.R. Azmi, 1979. Effect of potassium naphthenate on rice (*Oryza sativa* L). *Pak.J.Bot.* 11; 137-139.
8. **Ansari, R.**, S.M. Naqvi, A.R. Azmi and Shaukat Ahmed 1981. Effect of naphthenates on some phonological characters of cotton. *Pak.J.Bot.* 13; 156-163.
9. Naqvi, S.M. and **R. Ansari.**, 1981. Auxin transport in *Cuscuta reflexa* Roxb. *Pak. J. Bot.* 13; 95-98.
10. Naqvi, S.M., **R. Ansari** and M. Hanif, 1983. Kinetics of auxin transport under salt stress. *Pak.J.Bot.* 15; 25-29.
11. **Ansari, R.**, S.S.M. Naqvi and A.N. Khanzada, 1989. Effect of potassium naphthenate or auxin transport in *Zea mays* L. *Pak.J.Bot.* 21; 270-274.
12. **Ansari, R.**, S.S.M. Naqvi, A.N. Khanzada and A.R. Azmi, 1991. Effect of naphthenates on some plants of economic importance. *Sci. Internat.* 3; 237-240.
13. Naqvi, S.S.M, Saba Mumtaz and **R. Ansari**, 1994. Prospects for developing stress tolerant plants from biotechnological methods. *Pak. J. Agri. Res.*15; 185-194.
14. Shereen, A., **R. Ansari**, S.S.M. Naqvi and A.Q. Soomro, 1998. Effect of salinity on, rhizobium species, nodulation and growth of soybean (*Glycine max* L.). *Pak. J. Bot.* 30; 75-81.
15. **Ansari, R.**, S.S.M. Naqvi, A.N. Khanzada and K.T. Hubick, 1998. Carbon isotope discrimination in wheat under saline conditions. *Pak. J. Bot.* 30; 87-93.
16. Alam, S.M., S.A. Ala, A.R. Azmi, **R. Ansari** and M.A. Khan, 1999. Influence of aqueous leaf extract of purple nutsedge (*Cyperus rotundus* L) and NaCl on germination and seedling growth of wheat (*Triticum aestivum* L). *Pak. J. Sci. Ind Res.* 42; 373-373.
17. Ali, Mukhtiar, M.S. Sarir, M.U. Shirazi, S.M. Alam and **R. Ansari**, 2000. Phosphorus mineralization in some soil series of Peshawar valley. *Pak. J. Soil. Sci.* 18; 13-18.
18. Shirazi, M.U., **R. Ansari**, Mukhtiar Ali, S.M. Alam, B.Khanzada, A.Shereen, M.A.Khan, S.M.Mujtaba and M. Ali, 2001. Effect of different rhizobial strains on the growth and N uptake in *Acacia* under saline conditions. *Pak. J. Bot.* 33:7-11.
19. Alam, S.M., **R. Ansari** and M. A. Khan, 2001. Application of radioisotopes and radiation in the field of agriculture: Review. *Online J. Biol. Sci.* 1:82-88.
20. Alam, S.M, S.A. Ala, M.A. Khan and **R. Ansari**, 2001. Allelopathy and its role in agriculture. *Online J. Biol. Sci.* 1:308-315.
21. Alam, S.M., M.A. Khan, M. Ali and **R. Ansari**, 2001. Effect of different levels of Zinc and Phosphorus on seedling growth of rice. *J. Sci. Tech.* 23; 49-51.
22. Alam, S.M.. B. Khanzada, M.Ali, M.A. Khan and **R. Ansari**, 2001. Effect of different levels of Zn and P on growth and chlorophyll content of wheat. *Pak. J. Agri. Vet. Sci.* 17:7-9.
23. Alam, S.M., and **R. Ansari**, 2001. Influence of iron and manganese on the growth and Fe. Mn and P contents in rice. *Pak. J. Biol. Sci.* 1; 434-435.

24. Alam, S.M., B. Khanzada, M.A. Khan and **R. Ansari**, 2001. Effect of different sources of Fe on the dry matter yield and nutrient contents of rice plant. Pak. J. Biol. Sci.
25. Alam, S.M., **R. Ansari** and M.A. Khan, 2001. Effect of seed of sweet clover (*Melilotus indica* L) weed and NaCl on seeding growth of rice. Pak. J. Biol. Sci. 1:438-439.
26. Khanzada, B., M.Y. Ashraf, S.A. Ala, S.M. Alam, M.U. Shirazi and **R. Ansari**, 2001. Water relations in different guar (*Cyamopsis tetragonoloba* L. Taub) genotypes under water stress. Pak. J. Bot. 33:279-287.
27. Shirazi, M.U., B. Khanzada, S.M. Alam, **R. Ansari**, S.M. Mujtaba, M. Ali Mukhtiar Ali and M.A. Khan, 2001. Seasonal nutrient variations in two acacia species growing under saline environment. Pak. J. Biol. Sci. 4; 514-517.
28. Shirazi, M.U., **R. Ansari**, Mukhtiar Ali, S.M. Alam, B. Khanzada, A. Shereen, M. A. Khan, S.M. Mujtaba and M. Ali, 2001. Effect of different rhizobial strains on the growth and nitrogen uptake in acacias under saline soil. Pak. J. Bot. 33, 7-11.
29. Shereen, A., **R. Ansari**, 2001. Salt tolerance in soybean (*Glycine max* L.). Effect on growth and ion relations. Pak. J. Bot. 33; 393-402.
30. Shereen, A. and **R. Ansari**, 2001. Salt tolerance in soybean (*Glycine max* L.). Effect on growth and water relations. Pak. J. Biol. Sci. 4: 1212-1214.
31. Alam, S.M., S.A. Ala, **R. Ansari** and M.A. Khan, 2002. Influence of weed seed of *Scarlet Pimpernal*, *Anagallis arvensis*, Primulaceae on wheat. Balochistan J. Agri. Sci. 1:45-47.
32. Alam. S.M., **R. Ansari**, M.A. Khan and M. Ali, 2002. Effect of zinc, nitrogen and variable temperature on seedling growth of wheat. Pak. J. Sci. Ind. Res. 45: 50-52.
33. Ali, Mukhtiar, S.M. Sarir, M.U. Shirazi, S.M. Alam and **R. Ansari**, 2003. Phosphorus adsorption in representative soils of Peshawar valley (N.W.F.P), Pakistan. Pak. J. Sci. Ind. Res. 46:288-294.
34. Shereen, A., **R. Ansari**, S.M. Alam., S. Mumtaz and S. Raza, 2003. *In vitro* selection for salt tolerance among different strains of *Bradyrhizobium japonicum*. Pak. J. Bot. 35: 89-92.
35. Ali, Muhammad, **R. Ansari**, S.M. Mujtaba, M.U. Shirazi, B. Khanzada and S.Mumtaz, 2006. Effect of land application of untreated sewage sludge on soil fertility and crop production. Pak. J. Arid Agri. 9: 31-39.
36. Ali, Muhammad, T.G. Kazi, **R. Ansari**, S.M. Mujtaba, B. Khanzada, M.A. Khan, M.U. Shirazi and S. Mumtaz, 2007. Effect of untreated sewage sludge on wheat yield, metal uptake by grain and accumulation in soil. Pak.J.Bot. 39: 2511-2517.
37. Khan, M.A., S. Yasmin, **R. Ansari**, M.U. Shirazi and M.Y. Ashraf, 2007. Screening for salt tolerance in wheat genotypes at an early seedling stage. Pak. J. Bot. 39: 2501-2509.
38. Shereen, A., **R. Ansari**, S. Yasmin, S. Raza, S. Mumtaz, M.A. Khan and S.M. Mujtaba, 2007. Physiological responses of rice (*Oryza sativa* L.) to saline stress. Pak. J. Bot. 39: 2527-2534.
39. Khan, M.A., M.U. Shirazi, M. Ali Khan, S.M. Mujtaba, E. Islam, S. Mumtaz, A. Shereen, **R. Ansari** and M.Y.Ashraf, 2009. Role of proline, K/Na ratio and chlorophyll content in salt tolerance of wheat (*Triticum aestivum* L.). Pak. J. Bot. 41: 633-638.
40. Shereen, A., **R. Ansari**, S. Mumtaz, H.R. Bughio, S.M. Mujtaba, M.U. Shirazi and M.A. Khan, 2009. Impact of gamma radiation induced changes on growth and physiological responses of rice under saline condition. Pak. J. Bot. 41: 2487-2495.
41. Gul, B., **R. Ansari** and M.A. Khan, 2009. Salt tolerance of *Salicornia utahensis* from Great Basin Desert. Pak. J. Bot. 41: 2925-2932.
42. Gul, B., **R. Ansari**, I. Aziz and M.A. Khan, 2010. Salt tolerance of *Kochia scoparia*: a new fodder crop for highly saline regions. Pak. J. Bot. 42: 2479-2487.
43. Shereen, A., **R. Ansari**, S. Raza, S. Mumtaz, M.A. Khan and M. Ali Khan, 2011. Salinity induced metabolic changes in rice (*Oryza sativa* L.) seeds during germination. Pak. J. Bot. 43: 1659-1661.
44. Zehra, A., B. Gul, **R. Ansari**, A. A. Aatar, A. K. Hegazy and M. Ajmal Khan, 2013. Interactive effect of salt, light and temperature on seed germination and recovery of a halophytic grass-*Phragmites karka*. Pak. J. Bot. 45: 725-736.

45. Sheikh, F., B. Gul, **R. Ansari**, A. A. Aatar, A. K. Hegazy and M. Ajmal Khan, 2013. Comparative effect of NaCl and sea salt on seed germination of two halophytic grasses under various light and temperature regimes. Pak. J. Bot. 45: 743-754.
46. Zehra, A., B. Gul, **R. Ansari**, A. A. Aatar, A. K. Hegazy and M. Ajmal Khan, 2013. Action of plant growth regulators in alleviating salinity and temperature effects on the germination of *Phragmites karka*. Pak. J. Bot. 45: 1919-1924.
47. Ali, H., B. Gul, M. Z. Ahmed, I. Aziz, S. Gulzar, **R. Ansari** and M. Ajmal Khan, 2014. NPK mediated improvement in biomass production, photosynthesis and Na⁺ regulation in *Panicum antidotale* under saline conditions. Pak. J. Bot. 46: 1975-1979.
48. Ehsen, S., M. Qasim, Z. Abideen, R. F. Rizvi, B. Gul, **R. Ansari** and M. Ajmal Khan, 2016. Secondary metabolites as anti-nutritional factors in locally used halophytic forage/fodder. Pak. J. Bot. 48:629-636.
49. Shereen, A., **R. Ansari**, S. Raza, M. U. Shirazi, M. A. Khan and S. Mumtaz. 2016. Effect of transpiration rate on sodium accumulation in rice (*Oryza sativa* L.) grown under saline conditions. Pak. J. Bot. 48: 47-51.
50. Ali, Haibat, Bilquees Gul, M. Yousuf Adnan, M. Zaheer Ahmed, **R. Ansari** and M. Ajmal Khan. 2016. Potential of halophytes as cattle fodder – a case study in Pakistan. Pak J Agri Sci. (In press).

PUBLICATIONS IN JOURNALS (International)

51. Naqvi. S.M., **R. Ansari** and A.Q. Ansari, 1970. Effect of (2-chloroethyl) trimethyl ammonium chloride (CCC) on increasing salt tolerance in wheat. J. Exp. Bot. 21; 712- 713.
52. Naqvi. S.M. and **R. Ansari**., 1974. Estimation of diffusible auxin under saline growth conditions. Experientia (now Cell. Mol. Life Sci.) 30; 350.
53. **Ansari, R.**, S.M. Naqvi and S.A. Ala, 1978. Growth and chemical composition of two cultivars of *Triticum aestivum* as affected by soil salinity. Commun. Soil Sci. Plant Anal. 9; 443-454.
54. **Ansari, R.**, S.M. Naqvi and S.A. Ala, 1980. Response of wheat cultivars to the presence of sodium salts at germination and early development. Biologia Plant. 22; 470-472.
55. **Ansari, R.**, S.M. Naqvi and S.A. Ala, 1982. Germination and seeding growth of various crop seed as influenced by different growth media. Acta Agron. 31; 351-354.
56. Naqvi, S.M., **R. Ansari** and A.N. Khanzada, 1982. Response of salt stressed wheat seedlings to kinetin. Plant Sci. Letters (now Plant Science) 26; 279-283.
57. **Ansari, R.**, S.S.M. Naqvi, Shaukat Ahmed, A.N. Khanzada and A.R. Azmi. 1985. Effect of naphthenic growth substances on plants. Proc. Bulg. Acad. Sci. 38; 747-750.
58. **Ansari, R.**, S.S.M. Naqvi and S.A. Ala, 1987. Tolerance of wheat (*Triticum aestivum*) cultivars to sodium salts. RACHIS 6; 41-44.
59. **Ansari, R.**, A.N. Khanzada and N.E. Marcar, 1991. Arid species with potential for salt and waterlogging tolerance MPTS Research Notes, 1; 5.
60. Khanzada, A.N., J.D. Morris, **R. Ansari**, P.G. Slavich and J.J. Collopy, 1998 Groundwater uptake and sustainability of *Acacia* and *Prosopis* plantations in Southern Pakistan. Agri. Water Management. 36; 121-139.
61. Alam, S.M., S.A. Ala, **R. Ansari** and M.A. Khan, 2001. Influence of leaf extract of Bermuda grass (*Cynodon dactylon* L.) on the germination and seeding growth of wheat. Wheat Info. Service. 92; 17-19.
62. **Ansari, R.**, N.E. Marcar, A.N. Khanzada, M.U. Shirazi and D.F. Crawford, 2001. Mulch application improves survival but not growth of *Acacia ampliceps* Maslin, *Acacia nilotica* (L.) Del. and *Conocarpus lancifolius* L. on a saline site in southern Pakistan. International Forestry Rev. 3:158-163.
63. Shirazi, M.U., B. Khanzada, Muhammed Ali, Ejaz ul Islam, S.M. Mujtaba, **R. Ansari**, S.M. Alam, M.A. Khan and Mukhtiar Ali, 2002. Response of three wheat genotypes grown under saline medium to low/high potassium levels. Acta Phys. Pl., 24:157-161.
64. Marcar, N.E., **R. Ansari**, A.N. Khanzada, M.A. Khan and D.F. Crawford, 2003. Performance of several tree species on a saline site in southern Pakistan. J. Trop. For. Sci. 15:457-468.

65. Khan, M.Ajmal, **R. Ansari**, Bilquees Gul and Manzoor Qadir, 2006. Crop diversification through halophyte production on salt prone land resources. CAB reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources, No. 48.
66. Shirazi, M.U., J.A. Shah, M.A. Khan, M.H. Naqvi, K.A. Jafri and **R. Ansari**, 2006. Growing salt tolerant woody perennials on coastal saline lands in southern Pakistan: a coordinated approach. Biosalinity Newsletter, ICBA, 7: 6-7.
67. Weber, D.J., **R. Ansari**, B. Gul and M.Ajmal Khan, 2007. Potential of halophytes as source of edible oil. J. Arid Env. 68: 315-321.
68. Khan, M. Ajmal, **R. Ansari**, Haibat Ali, B. Gul and B.L.Nielsen, 2009. *Panicum turgidum*, a potentially sustainable cattle feed alternative to maize for saline areas. Agri., Ecosys. Env. 129: 542-546.
69. Khan, M. Ajmal, **R. Ansari**, B. Gul and Weiqiang, Li, 2009. Dormancy and germination responses of halophyte seeds to application of ethylene. Comptes rendus Biologies, 332: 806-815.
70. Abideen, Z., **R. Ansari** and M.A. Khan, 2011. Halophytes: Potential source of ligno-cellulosic biomass for ethanol production. Biomass Bioenergy 35:1818-1822.
71. Zehra, A., B. Gul, **R. Ansari** and M.Ajmal Khan, 2012. Role of calcium in alleviating effect of salinity on germination of *Phragmites karka* seeds. South African J. Bot. 78: 122-128.
72. Abideen, Z., **R. Ansari**, B. Gul and M. Ajmal Khan, 2012. The place of halophytes in Pakistan's biofuel industry. Biofuels, 3: 211-220.
73. Zehra, A., F. Sheikh, **R. Ansari**, B. Gul and M. Ajmal Khan, 2013. Effect of ascorbic acid on seed germination of three halophytic grass species under saline conditions. Grass Forage Sci. 68: 339-344.
74. Gul, B., **R. Ansari**, T. J. Flowers and M. Ajmal Khan, 2013. Germination strategies of halophyte seeds under salinity. Env. Exp. Bot. 92: 4-18.
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78. Abideen, Z., A. Hameed, H-W, Koyro, B. Gul, **R. Ansari** and M. Ajmal Khan, 2014. Sustainable biofuel production from non-food sources- An overview. Emir. J. Food and Agri. 26: xxx
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PUBLICATIONS IN PROCEEDINGS & BOOKS (National)

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2. **Ansari, R.** and T.J. Flowers., 1984. Response of wheat cultivars to ionic and osmotic composition of the substrate. In; Environmental Stress and Plant Growth. S. S. M. Naqvi and R. Ansari (ed). AEARC, Tandojam p.23-29.
3. **Ansari, R.**, S.S.M. Naqvi, A.R. Azmi and A.N. Khanzada, 1984. Effect of cyclohexanecarboxylate treatment on plants. In; Environmental Stress and Plant Growth. S. S. M. Naqvi and R. Ansari (ed). AEARC, Tandojam p. 143-147.

4. Khanzada, A.N., S.S.M. Naqvi and **R. Ansari**, 1984. Proline content in relation to salt tolerance in wheat. In; Environmental Stress and Plant Growth. S.S. M. Naqvi and R. Ansari (ed). AEARC, Tandojam p. 9-18.
5. **Ansari, R.** and T.J. Flowers, 1986. Leaf to leaf distribution of ions in plants growing under saline conditions. In; Prospects for Biosaline Research. R. Ahmed and A. S. Pietro (ed) Univ. Karachi, Karachi. p. 167-181.
6. Naqvi, S.S.M., **R. Ansari** and M. Hanif, 1986. Auxin physiology under saline growth conditions. In; Prospects for Biosaline Research. R. Ahmed and A.S. Pietro (ed) Univ. Karachi, Karachi. p. 307-313.
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8. **Ansari, R.**, A.N. Khanzada, A.R. Azmi and S.S.M. Naqvi, 1994. Prospects of utilizing salt affected lands by using suitable tree species. In; Current Developments in Salinity and Drought Tolerance of Plants. S.S.M. Naqvi, R. Ansari, T.J. Flowers and A.R. Azmi (ed), AEARC, Tandojam, Pakistan, p. 388-395.
9. Shereen, A., **R. Ansari**, S.S.M. Naqvi and A. Q. Soomro, 1994. Effect of salinity on growth and nodulation of Glycine and Sesbania species. In; Current Developments in Salinity and Drought Tolerance of Plants. S.S.M. Naqvi, R. Ansari, T.J. Flowers and A.R. Azmi (ed), AEARC, Tandojam, Pakistan, p. 78-83.
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11. Khanzada, A.N., S.S.M. Naqvi and **R. Ansari**, 1994. Salt tolerance of some wheat cultivars at the early growth stages. In; Current Developments in Salinity and Drought Tolerance of Plants. S.S.M. Naqvi, R. Ansari, T.J. Flowers and A.R. Azmi (ed), AEARC, Tandojam, Pakistan, p. 351-335.
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13. Khanzada, A.N. and **R. Ansari**, 1995. Role of some nitrogen fixing legumes in improving fertility of salt affected lands. Rashid Ahmed (ed), Drainage and Reclamation Institute of Pakistan (DRIP), Tandojam, Volume-III, p. 47-48.
14. **Ansari R.**, S.S.M. Naqvi, N.E. Marcar, S.M. Alam, M.A. Khan and M.U. Shirazi, 1998. Soil Salinity; An important agro environmental problem and its management. In; Proceedings of International Symposium on Agro-Environmental Issues and Future Strategies: Towards 21st Century. J.K. Sial, M. Y. Bhatti and S.M. Azeemi (ed), University of Agriculture, Faisalabad, Pakistan. p. 155-158.
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