

## LIST OF PUBLICATIONS - DR. KAUSER A. MALIK

1. Eggins, H.O.W., Malik, K.A. and Sharp, R.F. (1968) Some techniques to study the colonization and deterioration of cellulosic and wood substrates. Proc. Int. Biodetn. Symposium, Ed. Walters and Eliphick. 120-130.
2. Eggins, H.O.W. and Malik, K.A. (1969) The occurrence of cellulolytic thermophilic fungi in a pasture land soil. Antonie van Leeuwenhoek. 45: 178-1984.
3. Malik, K.A. and Eggins, H.O.W. (1969) A perfusion technique to study the colonization of a cellulosic substrate by fungi. Int. Biodetn. Bull. 5(4): 163-168.
4. Malik, K.A. and Eggins, H.O.W. (1970) A perfusion technique to study the fungal ecology of cellulose deterioration. Trans. Br. Mycol. Soc. (Mycological Research) 54(2): 289-301.
5. Malik, K.A. and Eggins, H.O.W. (1970) A perfusion technique for the detection of interactions: Effect of *Gliocladium roseum* on six cellulolytic fungi. Mycopathologia et Mycologia applicata. 41 (3-4): 257-270.
6. Malik K.A. & Eggins H.O.W. (1972) Some studies on the effect of pH on the ecology of cellulolytic thermophilic fungi using a perfusion technique. Biologia, 18(2):143-151.
7. Malik, K.A. and Sandhu, G.R. (1973) Decomposition of organic matter in saline soils by fungi. Mycopathologia et Mycologia Applicata (Mycopathologia), 50: 339-384.
8. Malik, K.A. and Sandhu, G.R. (1973) Some studies on the fungi of Kallar grass (*Diplachne fusca*) compost. Pak. J. Bot. 5(1): 57-64.
9. Malik, K.A. and Rajoka, M.I. (1973) Cellulolytic soil mycoflora of rice growing areas of the Punjab, Biologia, 19 (1&2): 109-117.
10. Malik, K.A. and Sandhu, G.R. (1974) Competitive saprophytic colonization of Kallar grass (*Diplachne fusca*) pieces buried in saline soil. Proceedings International Colloquium on Biodegradation and Humification held at Nancy, France from 2-7 Sept. Ed. Reisiuger 112-115.
11. Sandhu, G.R. and K.A. Malik. (1975). Plant succession - A key to the utilization of saline soils. The Nucleus, 12 (1,2): 35-38.
12. Malik, K.A. and Haider, K. (1977) Decomposition of <sup>14</sup>C labelled plant material in saline-sodic soils. Proceedings of International Symposium on Soil Organic Matter Studies held at Braunschweig, W. Germany, Sept. 6-11, 1. 215-225, IAEA Vienna.
13. Malik, K.A. and Batra, L.R. (1978) Cellulolytic fungi from saline and sodic-soils of Pakistan. 43rd Annual Meeting, Mycological Society of America, Univ. of Georgia, Athens; Mycological Newsletter 29: 55.
14. Malik, K.A. (1978) Biological Methods of Reclamation of salt-affected soils. In: Technology for Increasing Food Production, Ed. J.C. Holmes. Proceedings of 2nd FAO/IAEA Seminar on Field Food Crops in Africa and Near East, Lahore, Pakistan, Sept. 18-Oct. 5, 1977. 105-1108.
15. Islamul Haq, Attaullah and K.A. Malik (1978) Biological Methods of Reclamation of salt-affected soils. II. Dynamics of CaCO<sub>3</sub> under irrigation with saline-sodicwaters. Proceedings of Water Management for Agriculture Seminar 1977, Exxon Chemicals, Pakistan, 426-440.
16. Malik, K.A. and F. Azam (1978) Decomposition of *Diplachne fusca* and *Suaeda fruticosa* in saline soils. Pak. J. Bot. 10(1): 89-93.

17. Malik, K.A and F. Azam (1979) Effect of salinity on carbon and nitrogen transformations in soil Pak. J. Bot. 11(2): 112-113.
18. Malik, K.A., N.A. Bhatti and F. Kauser (1979) Effect of soil salinity on decomposition and humification of organic matter by some cellulolytic fungi. Mycologia 7(4): 811-820.
19. Malik, K.A. (1979) Biodynamics of soil organic matter formation. Proceedings of the International Symposium on New Researches in Biology and Genetics, organized by UNESCO and Hamdard National Foundation Pakistan, Islamabad, 8-13 Dec. pp.
20. Zafar Y, and K.A. Malik and A.H. Chaudhry (1979) Ureas activity in some agricultural soils in Pakistan. Islamabad. J. Sci. 6: 30-33.
21. Malik, K.A., F. Kauser and F. Azam (1980) Effect of sodium chloride on the cellulolytic ability of some Aspergilli. Mycologia, 72(2): 322-328.
22. Qureshi, M.S.A., Mirza, J.H. and Malik, K.A. (1980) Cellulolytic activity of some Thermophilic and Thermotolerant Fungi of Pakistan. Biologia. 26: 201-218.
23. Malik, K.A. and F. Azam (1980) Effect of salinity on <sup>14</sup>C-labelled microbial biomass and its contribution to soil organic matter. Pak. J. Bot. 12(2): 117-127.
24. Qureshi, M.S.A., Mirza, J.H. and Malik, K.A. (1980) Amylolytic activity of some Thermophilic and Thermotolerant Fungi of Pakistan. Biologia 26: 225-236.
25. Malik, K.A. Zafar, Y. and Hussain A. (1980) Nitrogenase activity in the Rhizosphere of Kallar grass (*Diplachne fusca*). Biologia 26: 107-112.
26. Zafar Y, K.A. Malik and A.H. Chaudhry (1981) Activities of some carbohydrates in agricultural soils. Pak. J. Agric. Res. 2: 41-45.
27. Malik, K.A. Zafar, Y. and Hussain A. (1981) Associative dinitrogen fixation in *Diplachne fusca* (Kallar grass). In "BNF Technology for Tropical Agriculture" (Peter H. Graham and C. Haris Eds.) 503-507. CIAT, Cali, Columbia.
28. Malik, K.A. and K. Haider (1982) Decomposition of <sup>14</sup>C labelled melanoid fungal residues in a marginally sodic soil. Soil Biol. Biochem. 14: 457-460.
29. Azam, F. and K.A. Malik (1983) Effect of humic acid soaking of seeds on seedling growth of wheat (*Triticum aestivum*) under different conditions. Pak. J. Botany. 15: 31-38.
30. Hussain, F. and K.A. Malik (1983) Ammonia volatilization from a flooded rice soil system. Pak. J. Agric. Res. 4: 126- 130.
31. Hussain, F. and K.A. Malik (1983) Comparison of two methods of nitrogen application in low land rice using nitrogen-15 tracer technique. Pak. J. Agric. Res. 4: 1-5.
32. Hussain, F. and K.A. Malik (1983) Mineralizable nitrogen as an index of soil nitrogen availability. Pak. J. Sci. Ind. Res. 26: 95-99.
33. Malik, K.A. and Y. Zafar (1984) Use of <sup>15</sup>N isotope dilution technique for quantification of associative BNF in Kallar grass. In: Advances in Nitrogen Fixation Research. Eds. C. Veeger and W.E. Newton. Martinus Nijhoff/Dr. W. Junk Publishers, The Hague p. 58.
34. Malik, K.A. and Y. Zafar (1984) Use of <sup>15</sup>N natural abundance for quantification of biological nitrogen fixation in Soybeans. Ibid. p. 38.
35. Rajoka, M.I. and K.A. Malik (1984) Cellulase and Hemicellulase production by *Cellulomonas flavigena* NIAB 441. Biotechnology Letters 6(9): 597-601.

36. Hussain, F., K.A. Malik and F. Azam (1984) Evaluation of acid permanganate extraction as an index of nitrogen availability. *Plant and Soil* 79: 249-254.
37. Hussain, F. K.A. Malik and F. Azam (1984) Evaluation of some chemical indexes of nitrogen availability in upland soils. In: *Nitrogen and the Environment* (Eds.) Malik KA, Naqvi SHM and MIH Aleem NIAB, Faisalabade, 327-332.
38. Azam, F. and K.A. Malik (1984) Effect of lignin sulphonates on N transformation, soil microflora and plant growth. In: *Proceedings of International Symposium: Nitrogen and the Environment*, held at Lahore, Pakistan from Jan. 7-12. Eds. Malik, N. and Aleem.
39. Malik, K.A. and Y. Zafar. (1984). Quantification of root associated nitrogen fixation in kallar grass as estimated by  $^{15}\text{N}$  isotope dilution. In: *Proceedings of International Symposium: Nitrogen and the Environment*, held at Lahore, Pakistan from Jan. 7-12. Eds. Malik, N. and Aleem.
40. Zafar, Y and K.A. Malik. (1984). Photosynthetic system of *Leptochloa fusca*. *Pak. J. Bot.* 16(2): 109-116.
41. Malik, K.A. and F. Azam (1985) Effect of humic acids on wheat (*Triticum aestivum*) seedling growth. *Experimental and Environmental Botany.* 25(3): 245-252.
42. Hussain F. and K.A. Malik (1985) Modification of acid permanganate method for obtaining and index of soil nitrogen availability. *Plant and Soil.* 84: 143-146.
43. Hussain F. and K.A. Malik (1985) Evaluation of alkaline permanganate method and its modification as an index of soil nitrogen availability. *Plant and Soil.* 84: 279-282.
44. Azam F., K.A. Malik and M.I. Sajjad (1985) Transformation in soil and availability of N-15 applied as inorganic fertilizer and legume residues. *Plant and Soil.* 86: 3-13.
45. Azam F., K. Haider and K.A. Malik (1985) Transformation of  $^{14}\text{C}$  labelled plant components in soil in relation to immobilization and remineralization of N-15 fertilizer. *Plant and Soil.* 86(1): 15-26.
46. Mahmood T., F. Azam and K.A. Malik (1985) Decomposition and humification of plant residues by some of soil fungi. *Biotech. Letters.* 7(3): 207-212.
47. Niazi, M.L.K., M.I. Haq and K.A. Malik (1985) Salt tolerance studies on Ipil-Ipil (*Leucaena leucocephala* L.) CV. K-8. *Pak. J. Bot.* 17(1): 43-47.
48. Zafar, Y and Malik K.A. (1985) The influence of nitrate supply on growth and in vivo nitrate reductase activity of *Leptochloa fusca* seedlings. *Pak. J. Bot.* 17(1): 215-221.
49. Malik, K.A. and Y. Zafar (1985) Quantification of root associated nitrogen fixation in Kallar grass as estimated by  $^{15}\text{N}$  isotope dilution. *Proc. Int. Symp. Nitrogen and the Environment*, Jan. 7-12, 1984, Lahore, Eds. Malik, K.A. Naqvi, S.H.M. and Aleem M.I.H., NIAB, Faisalabad, 161-171.
50. Azam, F. and Malik K.A. (1985) Effect of lignosulphonates on nitrogen transformation, soil microflora and plant growth. *Ibid.* 261-267.
51. Hussain, F., Malik, K.A. and Azam F. (1985) Evaluation of some chemical indexes of nitrogen availability in upland soils. *Ibid.* 327-332.
52. Wahid A, Rasul E, Ali I., Zafar Y. & Malik K.A. (1985) Associative nitrogen fixation in some grasses and cereals growing around Faisalabad area. *Pak. J. Agri. Sci.* 22(3). 126-132.
53. Mahmood K. and K.A. Malik (1986) Salt tolerance studies on *Atriplex rhagodioides*. *Environmental and Experimental Botany*, 27: 119-125.

54. Idris, M., M. Ashraf and K.A. Malik (1986) Response of lentils to Rhizobium inoculation and phosphorous application under field conditions. *Sarhad J. Agric.* 2: 145-153.
55. Idris, M., Ashraf M and Malik K.A. (1986) Response of mungbean to Rhizobium inoculation for effective nodulation and nitrogen fixation under field condition. *Pak. J. Soil Sci.* 1: 41-46.
56. Azam, F. Kauser A. Malik and M.I. Sajjad (1986) Uptake by wheat plants and turnover within soils fractions of residual N from leguminous plant material and inorganic fertilizer. *Plant and Soil.* 95: 97-108.
57. Rajoka, M.I. and Malik, K.A. (1986) Comparison of different strains of Cellulomonas for production of cellulolytic and xylanolytic enzymes from biomass produced on saline lands. *Biotechnology Letters*, Vol. 8(10): 753-756.
58. Hussain A., Azam F. and Malik, K.A. (1986) Bound Residues of <sup>14</sup>C carbofuran in soil. In *Quantification Nature and Bioavailability of Bound <sup>14</sup>C-Pesticide Residues in Soil, Plant and Food*, IAEA, Vienna. 23-29.
59. Azam F., Hussain A. and Malik K.A. (1986) Bound Residues of <sup>14</sup>C-Malathion in soil. In *Quantification Nature and Bioavailability of of Bound <sup>14</sup>C-Pesticide Residues in Soil, Plant and Food*. IAEA, Vienna. 23-29.
60. Azam F., Malik K.A. and Hussain F. (1986) Microbial biomass and mineralization-immobilization of nitrogen in some agricultural soils. *Biol. and Fert. of Soils.* 2: 157-163.
61. Zafar Y., Ashraf M., and Malik K.A. (1986) Nitrogen fixation associated with roots of Kallar grass *Leptochloa fusca* (L.) Kunth. *Plant and Soil* 90, 93-105.
62. Mahmood, T., F. Azam and K.A. Malik (1987) Biochemical changes during composting of Kallar grass *Leptochloa fusca* (L.) Kunth. *Mircen Journal of Applied Microbiology and Biotechnology* 3: 421-428.
63. Niazi M.L.K., Mahmood K. and Malik K.A. (1987) Salt tolerance studies in different cultivars of barley. *Pak. J. Bot.* 19: 17-27.
64. Altaf N. and Malik K.A. (1987) Callus induction and plantlet formation from Kallar grass. *Pak. J. Bot.* 19: 213-216
65. Khalid, Z.M. and Malik K.A. (1987). Isolation and characterization of some acidphilic Thiobacilli from sewage waters. *Pak. J. Sci. Ind. Res.* 30(12): 905-908.
66. Bilal, R. and Malik K.A. (1987). Seasonal variation in rhizospheric population of diazotrophs and root associated nitrogenase activity of some wheat mutants. *Pak. J. Bot.* 19(1): 29-41.
67. Zafar, Y. Kauser A. Malik and E.G. Niemann (1987) Studies on N<sub>2</sub> - fixing bacteria associated with salt tolerant grass *Leptochloa fusca* (L.) Kunth. *Mircen Journal of Applied Microbiology and Biotechnology*, 3: 45-56.
68. Bilal R. and Kauser A. Malik (1987) Isolation and identification of a N<sub>2</sub>-fixing zoogloea forming bacterium from Kallar grass histoplane. *Journal of Applied Bacteriology* 62: 284-294.
69. Malik K.A., Zafar Y., Bilal R. and Azam F. (1987) Use of <sup>15</sup>N isotope dilution for quantification of N<sub>2</sub>-fixation associated with roots of Kallar grass *Leptochloa fusca* (L.) Kunth. *Biol. Fert. Soils.* 4: 103-108.
70. Ali, S. and K.A. Malik. (1987). Use of azolla in Pakistan, Azolla utilization - Proceedings of workshop on azolla use, Fuzhon, Fujian, China, March 31 to April 5.

71. Rasul, E., I. Ali, F.Y. Hafeez, K.A. Malik and A.N. Ahmad. (1987). Effect of salinity and rhizobium inoculation on nodulation, nitrogen fixation and yield of *Vigna Radiata* (L.) Wiliczek. Mod. Trends Pl. Sci. Res. Pak., 121-125.
72. T. Mahmood, F. Azam & K.A. Malik (1987): MIRCEN Journal, 3, 421-428 (1987).
72. Khalid Z.M. and Malik K.A.(1988) Isolation of furnace oil utilizing bacteria capable of producing biosurfactants. Pak. J. Sci. and Ind. Res., 31: 714-717.
73. Malik K. A.(1988) Microbiology of rhizosphere and plant productivity. Invited lecture at the First National Congress of Soil Science. In: Managing Soil Resources, pp 122-139, published by Soil Sci. Soc. Pak., Lahore.
74. Malik K.A., Bilal R., Azam F. and Sajjad M.I. (1988) Quantification of N<sub>2</sub> fixation and survival of inoculated diazotrophs associated with roots of Kallar grass. Plant and Soil, 108: 43-51.
75. Malik, K.A. and Rakhshanda Bilal (1988) Survival and colonization of inoculated bacteria in Kallar grass rhizosphere and quantification of N<sub>2</sub> fixation. Plant and Soil, 110: 329-338.
76. Azam F., Mahmood T. and Malik K.A. (1988) Immobilization-remineralization of NO<sub>3</sub>-N and total N balance during the decomposition of glucose, sucrose and cellulose in soil incubated at different moisture regimes. Plant and Soil, 107: 159-163.
77. Akhter J., Waheed R.A., Niazi M.L.K., Malik K.A. and Naqvi S.H.M. (1988). Moisture properties of saline sodic soil as affected by growing Kallar grass using brackish water. Reclamation and Revegetation Research, 6: 299-307.
78. Hafeez F.Y., Aslam Z. and Malik K.A. (1988) Effect of salinity and inoculation on growth, nitrogen fixation and nutrient uptake of *Vigna radiata* (L.) Wiliczek. Plant and Soil, 106:3-8.
79. Qureshi J.A., Zafar Y. and Malik K.A.(1988). Klebsiella sp. NIAB-I: a new diazotroph, associated with roots of Kallar grass from saline sodic soils. Plant and Soil, 110: 591-596.
80. Latif, F., Malik, K.A. and Puls J. (1988) Effect of steam and alkali pretreatment on the enzymatic hydrolysis of plants grown in saline soils. Biomass 17: 105-113.
81. Khalid Z.M. and Malik K.A. (1988) Leaching of chalcopyrite by *Thiobacillus thiooxidans* and oxidized copper ore by *T. ferrooxidans* isolated from local environments. Mircen Journal of Appl. Microbiol. and Biotech. 4: 447-453.
82. Azam F., Hussain F. and Malik K.A. (1988) Contribution of microbial and fungal material to soil humus. Sarhad J. of Agric., 4(4):521-527.
83. Ali, S. and K.A. Malik. (1988). Effect of azolla on rice yield, fertilizer-<sup>15</sup>N recovery, soil N budget and floodwater properties in an azolla-rice intercropping systems. In: Proceedings of first international symposium on paddy soil fertility, Chiangmai, Thailand, December 6-13.
84. Shafeeq M., Kokub D., Khalid Z.M., Khan A.M. and Malik K.A. (1989) Degradation of different hydrocarbons and production of biosurfactant *Psuedomonas aeruginosa* isolated from coastal waters. MIRCEN Journal of Appl. Microbiol. and Biotech. 5: 505-510.
85. Azam F., Yousaf M., Hussain F. and Malik K.A. (1989) Determination of microbial biomass in some agricultural soils of Pakistan. Plant and Soil, 113: 223-228.
86. Idris M., Mahmood T. and Malik K.A. (1989) Response of field grown chick-pea (*Cicer arietinum*) to phosphorous fertilization for yield and nitrogen fixation. Plant and Soil, 114: 135-140.
87. Hafeez F.Y., Idris M. and Malik K.A. (1989) Growth and survival of cowpea bradyrhizobia in various carrier materials. Biol. and Fert. of Soils 7: 279-282.

88. Mahmood K., Malik K.A., Sheikh K.H. and Lodhi M.A.K. (1989) Allelopathy in saline agricultural land: Vegetation successional changes and patch dynamics. *J. Chem. Ecol.* 15(2): 565-579.
88. Bhatti T.M., Malik K.A. and Khalid A.M. (1989) Microbial leaching of low-grade sandstone uranium ores: column leaching studies. *Proc. Int. Symp. Biotechnology for Energy*, Dec. 16-21, Faisalabad. 329-340.
89. Shafeeq M., Kokub D., Khalid Z.M. and Malik K.A. (1989) Comparison of some indigenous bacterial strains of pseudomonas spp. for production of biosurfactants. *proc. Int. Symp. Biotechnology for Energy*, Dec. 16-21, Faisalabad. 243-249.
90. Khalid Z.M. and Malik K.A. (1989) Removal of inorganic and organic sulphure from fossil fuels by bacteria. *Proc. Int. Symp. Biotechnology for Energy*, Dec. 16-21, Faisalabad. 405-411.
91. Kokub D., Shafeeq M., Khalid Z.M. and Malik K.A. (1989) Isolation, Screening and characterization of biosurfactant producing bacteria. *Proc. Int. Symp. Biotechnology for Energy*, Dec. 16-21, Faisalabad. 221-232.
92. Ashfaq, R., A. Bashir, M.I. Rajoka, K.A. Malik and C.A. Batt. (1989). Characterization of cellulases from cellulomonas biazota NIAB 442 using zymographic technique. pp. 77-83. In. Malik, K.A., Naqvi, S.M.H. and M.I. H. Aleem (eds). *Proc. Int. Symp on Biotechnology for energy*, Dec. 16-21.
93. Iqbal, M.J., M.I. Rajoka, and K.A. Malik. (1989). Production of a thermostable B-galactosidase by a mesophilic fungus aspergillus niger NIAB 280. pp. 157-165. In. Malik, K.A., Naqvi, S.M.H. and M.I. H. Aleem (eds). *Proc. Int. Symp on Biotechnology for energy*, Dec. 16-21.
94. Latif, F., M.I. Rajoka and K.A. Malik. (1989) Increased saccharification of kallar grass using ultrafiltrated enzyme from sporotrichum thermophile. pp. 129-137. In. Malik, K.A., Naqvi, S.M.H. and M.I. H. Aleem (eds). *Proc. Int. Symp on Biotechnology for energy*, Dec. 16-21.
95. Rajoka, M.I. and K.A. Malik. (1989). Production of ethanol from Leptochloa fusca L. Kunth (kallar grass) and panicum maximum using cellulases from trichoderma spp and cultures of saccharomyces carlsbergensis. pp. 109-118. In. Malik, K.A., Naqvi, S.M.H. and M.I. H. Aleem (eds). *Proc. Int. Symp on Biotechnology for energy*, Dec. 16-21.
96. Qureshi, J.A., Y. Zafar and K.A. Malik. (1989). *Klebsiella sp.* NIAB-I: A new diazotroph, associated with roots of kallar grass from saline sodic soil. F.A. Skinner et. Al. (Eds.), *Nitrogen fixation with non-legumes*, 115-120.
97. Bilal R., Rasul G., Mahmood K. and Malik K.A. (1990) Nitrogenase activity and nitrogen fixing bacteria associated with the roots of Atriplex growing in saline sodic soils of Pakistan. *Biol. and Fert. of Soils* 9: 315-320
98. Bilal R., Rasul G., Qureshi J.A. and Malik K.A. (1990) Characterization of *Azospirillum* and related diazotrophs associated with roots of plants growing in saline soils. *World J. of Microbiol. and Biotech.* 6:46-52.
99. Tabassam R., Rajoka M.I. and Malik K.A. (1990) Production of cellulases and hemicellulases by an anaerobic mixed culture from lignocellulosic biomass. *World J. of Microbiol. and Biotech.* 6:39-45
100. Khalid Z.M., Mahmood T. and Malik K.A. (1990) Leaching uranium from carbonate ore using Thiobacillus thiooxidans (S- V). *Biorecovery* 1: 291-302

101. Javed A. Qureshi and Kauser A. Malik (1990). Evidence for a plasmid conferring salt-tolerance in the plant-root associated, diazotroph *Klebsiella sp. NIAB-I*. *Biotechnology Letters*, 12(10):783-788.
102. Kokub D., Shafeeq M, Khalid Z.M. Hussain A. and Malik K.A. (1990) Comparative studies on emulsification and biodegradation of indigenous crude oils by enriched bacterial cultures. *Biorecovery* 2: 55-68.
103. Malik K. A.(1990) Soil Biotechnology and Crop Productivity. Invited lecture. In: Soil for Agricultural Development, Proceedings of 2nd National Soil Science Congress, Faisalabad. 17-21.
104. Khalid Z.M., Shafeeq, M., Kokub, D. and Malik K.A. (1990) Quantification and enhancement of biodegradation of petroleum pollutants under controlled laboratory conditions. *Journal of Environmental and Analytical Chemistry* 1(1): 55-61.
105. Latif F., Rajoka, M.I. and Malik, K.A. (1990) Production of thermostable cellulase by *Sporotrichum thermophile*. In: Pro-ceedings of first National Conference Chemistry. Organized by Dept. of Chem. Univ. Dec. 8-10, Peshawar. 413- 421.
106. Hafeez, F.Y., Asad, S., and Malik, K.A. (1990) High temperature effect on mungbean *Bradyrhizobium* symbiosis. Paper presented in 3rd National Congress of Soil Science Society of Pakistan, March 22-24, Lahore.
107. Kokub, D., Shafeeq, M., Khalid Z.M., Ilahi, A., Hussain A. and Malik, K.A. (1990) Use of adsorption and gas chromatographic techniques estimating biodegradation of indigenous crude oils. In: Proceedings National Symposium on Modern Trends in Contemporary Chemistry, March 6-8, Islamabad.
108. Qureshi, J.A., Ali, S.H. Ali, R and Malik, K. A. (1990) Molecular aspects of salt tolerance in *Klebsiella sp. NIAB- I*. International Telecommunication Conference on Plant Biotechnology. Aug. 16-19 Islamabad.
109. Zafar, Y., Wajid, A. and Malik, K.A. (1990) Establishment of cell suspension lines of indica rice (*Oryza sativa*). In: Proceedings of the National/International Telecommunication Symposium on Plant Biotechnology NARC, Islamabad Aug. 16-19.
110. Latif F., Rajoka M.I. and Malik K.A. (1990) HPLC: A bioseparation technique for analysis of sugars from cellulose-hydrolyzates. *Proc. Natl. Symp. Modern Trends in Contemporary Chemistry*. March 6-8. Islamabad. 235-239.
111. Ali, S., K.A. Malik, I. Ahmad and E. Rasul. (1990). Effect of salinity on the morphology, nitrogen fixation and biomass production in azolla pinnata. pp. 509-520. In: *Proc. Of Indo-Pak workshop on soil salinity and water management*, Islamabad, Feb. 10-14.
112. Malik K.A., Bilal R., Rasul G., Mahmood K. and Sajjad M.I.(1991) Associative N<sub>2</sub>-fixation in plants growing in saline sodic soils and its relative quantification based on <sup>15</sup>N natural abundance. *Plant and Soil*. Vol:137: 67-74.
113. Hafeez F.Y., Asad S. and Malik K.A. (1991). The effect of high temperature on *Vigna radiata* nodulation and growth with different bradyrhizobial strains. *Environ. Expt. Bot.* 31(3): 285-294.
114. Asad S., Malik K.A. and Hafeez F.Y. (1991). Competition between inoculated and indigenous Rhizobium/Bradyrhizobium spp. Strains for nodulation of grain and fodder legumes in Pakistan. *Biol. Fertl. Soil* 12: 107-111.
115. Ashfaq, S.R. Bashir, A. Rajoka M.I. and Malik, K.A. (1991). Rapid zymographic technique for the localization of cellulases on non-denaturing polyacrylamide gel. pp. 77-84. In: Malik, K.A.,

- Naqvi, S.H.M. and Aleem, M.I.H. (eds.) *Biotechnology for Energy*. Pubs. NIAB/NIBGE Faisalabad.
116. Bashir, A., Ashfaq, S.R., Rajoka, M.I. and Malik K.A. (1991) Cloning of cellulase genes using pUC18 and lambda 2001 vectors. pp. 55-64. In: Malik, K.A., Naqvi S.H.M. and Aleem, M.I.H. (eds.) *Biotechnology for Energy* Pubs. NIAB/NIBGE, Faisalabad.
  117. Bhatti, T.M., Malik, K.A. and Khalid, A.M. (1991) Biological leaching of low grade sandstone uranium ores. pp. 329-340. In: Malik K.A., Naqvi, S.M.H. and Aleem M.I.H. (eds.). *Biotechnology for energy*. Proceedings of an International Symposium held at Faisalabad.
  118. Bhatti, T.M., A. Mateen, M. Amin, K.A. Malik and A.M. Khalid. (1991). Spectrophotometric determination of Uranium (VI) in bacterial leach liquors using Arsenazo-III. *J. Chem. Tech. Biotechnol*, 52, 331-334.
  119. M.I. Rajoka., S. Parvez and K.A. Malik (1992) Cloning of structural genes for ( $\beta$ -glucosidase from *Cellulomonas biazotea* in to *E. coli* and *Saccharomyces cerevisiae* using shuttle vector pBLU-D. *Biotechnology Letters*. 14(11): 1001-1006.
  120. Zafar Y., Wajid, A., Malik, K.A. and Gamborg, O.L. (1992) Establishment of regenerating calli and cell suspension line of Basmati rice (*Oryza sativa* L. CV B.370). *Pak. J. Bot.* 24(1): 64-71.
  121. Hafeez F.Y., Asad S. and Malik, K.A. (1992) Host specificity and characterization of fast growing cowpea *Rhizobium* strain. In *New Horizons in Nitrogen Fixation; Proceedings of 9th Int. Congress on Nitrogen Fixation, Cancun, Mexico, Dec. 6-12, 1992*; Eds. Placios R., Mora J. and Newton, W.; Kluwer Academic Publishers. 616.
  122. Malik K.A., Hafeez F.Y. and Asad S. (1992) Use of  $^{15}\text{N}$  isotopic methodology for screening chickpea genotypes with high field and high nitrogen fixation. In *New Horizons in Nitrogen Fixation; Proceedings of 9th Int. Congress on Nitrogen Fixation, Cancun, Mexico, Dec. 6-12, 1992*; Eds. Placios R., Mora J. and Newton, W.; Kluwer Academic Publishers. 731.
  123. Ali S. and Malik K.A. (1992) Availability of nitrogen fixation  $^{15}\text{N}$  labelled *Azolla* to rice. In *New Horizons in Nitrogen Fixation; Proceedings of 9th Int. Congress on Nitrogen Fixation, Cancun, Mexico, Dec. 6-12, 1992*; Eds. Placios R., Mora J. and Newton, W.; Kluwer Academic Publishers. 703.
  124. Malik, K.A., Rasul G., Hassan, U and Mehnaz S. (1992) Nitrogen fixation associated with grasses and introduction of nodule like structures on wheat and rice roots. In *New Horizons in Nitrogen Fixation; Proceedings of 9th Int. Congress on Nitrogen Fixation, Cancun, Mexico, Dec. 6-12, 1992*; Eds. Placios R., Mora J. and Newton, W.; Kluwer Academic Publishers. 732.
  125. Kokub D., Shafeeq M., Khalid Z.M., and Malik K.A. (1992) Production of biosurfactant from hexadecane by crude oil utilizing *Pseudomonas aeruginosa* strain K-3\*. *Pakistan Journal of Hydrocarbon Research*. 4(1):63-67.
  126. Tabassum R., Rajoka M.I. and Malik K.A. (1992) Use of Chemostat for enhanced production of  $\beta$ -glucosidase by newly isolated anaerobic cellulolytic *Clostridium* strain RT9. *Applied Biochemistry and Biotechnology* 34/35:318-329.
  127. Hussain, F., K.A. Malik and F. Azam. (1992). Use of commercial grade chemicals for the determination of Kjeldahl nitrogen in soils and plant materials. pp: 388-394. In: *Soil health for sustainable agriculture: Proc. of the National Congress of Soil Science, Lahore, March 20-22, 1990*.

128. Bilal R., Rasul G. Arshad M. and Malik K.A. (1993) Attachment, colonization and proliferation of *Azospirillum brasilense* and *Enterobacter* spp. on surface of grasses. *World Journal of Microbiol. & Biotech* 9: 63-69.
129. Aziz N. A., Ali S. H., Ahmad N., Qureshi J. A. and Malik K. A. (1993). Comparison of salt stress responsive proteins in *Atriplex amnicola* antibodies and two ecotypes of *Leptochloa fusca* (L.) Kunth. *Pak. J. Botany*, 25(1): 29-39.
130. Malik K.A., Rasul G., Hassan U., Mehnaz S., & Ashraf M., (1993) Role of N<sub>2</sub>-fixing and growth hormone producing bacteria in improving growth of wheat and rice. *Proc. Sixth Intl. Symp. on Nitrogen Fixation with Non-Legumes*. Ismailia, Egypt. 53.
131. Mansoor S., Qureshi, J.A., Stanley J., Markham P. and Malik, K.A. (1993) Use of PCR for the identification of alternate hosts for cotton leaf curl virus. In: *Biotechnology for Sustainable Development*, Dec. 15-20, 1993, p. 117.
132. Mansoor S., Stanley J., Malik, K.A. and Markham P. (1993) Molecular characterization of a geminivirus associated with cotton leaf curl disease in Pakistan. In: *Biotechnology for Sustainable Development* Dec. 15-20, 1993. p.38.
133. Qureshi, J.A., Ali R., Shah W.A., Ahmad N, Khattak K.F. & Malik K.A. (1993). Hypersaline-stress Protection in Organisms Found in Saline-Soils. In: *Proceedings of International Symposium on Biotechnology for Sustainable Development*, Dec. 15-20, 1993. Eds. Kausar A. Malik, Anwar Naseem & A.M. Khalid, NIBGE, Faisalabad, Pakistan.
134. Mansoor S., Qureshi, J.A. Stanley, J. Markham, P. and Malik, K.A. (1994) The detection of whitefly-transmitted geminiviruses infecting cotton and other plants in Pakistan by PCR amplification. In: *Ist International Symposium on Geminiviruses*, Almeria, Spain, Sept. 14-17, 1994. p.8.3.
135. Parvez S., Rajoka M.I., Fariha F. and Malik K.A. (1994) Cloning of Endoglucanase Genes from *Cellulomonas biazotea* into *E. coli* and *S. cerevisiae* using shuttle vector YEp24. *Folia Microbiol.* 39(4), 251-254.
136. Hussain, F. and K.A. Malik. (1994). Improving nitrogen fertilizer use efficiency in soils of Pakistan. Pp: 73-77. *Efficient use of plant nutrients: Proc. of 4<sup>th</sup> National Congress of Soil Science*, Islamabad, May 24-26, 1992.
137. Zafar, Y., A. Wajid and K.A. Malik. (1994). Establishment of cell suspension lines of Indica rice. *Pak. J. Agric. Res.*, 15(1): 115-123.
138. Hameed, S., F.Y. Hafeez, M.S. Mirza, K.A. Malik and A.D.L. Akkermane. (1994). Confirmation of an isolate from *Datisca cannabina* as atypical *Frankia* strain in using PCR amplified 16S rRNA sequence analysis. *Pak. J. Bot.*, 26(2): 247-251.
139. Latif, F, M.I. Rajoka and K.A. Malik. (1994). Saccharification of *Leptochloa fusca* (Kallar Grass straw) using thermostable cellulose. *Bioresource Technology* 50: 107-111.
140. Malik, K.A. (1995) Crop production in salt affected soils: A biological approach. In *Nuclear methods in soil-plant aspects of sustainable agriculture*. *Proceedings of an FAO/IAEA Regional Seminar for Asia and the Pacific*. IAEA-Tecdoc-785, pp.127-135.
141. Ali, S., Hamid, N., Rasul, G. and Malik K.A. (1995). Use of biofertilizers to increase rice yield, nitrogen content and fertilizer-N use efficiency in saline soils. *Fifth Natl. Conf. Plant Scientists*. March 28-30, 1995 NARC, Islamabad. Abst. No. 151.

142. Hamid, N., and Malik, K.A. (1995). Quantification of Azolla biomass and nitrogen fixation in rice Azolla culture. Fifth Natl. Conf. Plant Scientists. March 28-30, 1995. NARC, Islamabad. Abst. No. 150.
143. Fauzia Y. Hafeez, M. Aurangzaib Khan, Sohail Hameed, Ejaz Rasul and Kauser A. Malik, (1995). Use of Gus-marked Rhizobium and Bradyrhizobium strains for studying the effect of temperature on the infection process. Pak. J. Bot. 27(1): 55-62.
144. F.Y. Hafeez, S. Asad, T. Ahmad and K.A. Malik. (1995). Host Specificity and characterization of Fast-growing Rhizobia from Macroptilium atropurpureum cv. Siratro in Pakistan. Soil Biol. Biochem. 27(4/5): 729-733.
145. Latif F, M.I. Rajoka & K.A. Malik, (1995). Production of cellulases by thermophilic fungi grown on Leptochloa fusca straw. World J. Microbiol. Biotechnol. 11, 347-348.
146. Latif, F., M.I. Rajoka, K.A. Malik, A.R.A. Baghi and R.A. Riaz, (1995). Localization of xylanase components of thermophilic fungi. Pak. J. Biochem. Mol. Biol. 28: 145-147.
147. Parvez, S, M.I. Rajoka and K.A. Malik, (1995). Construction of a cellulolytic yeast strain for ethanol production from cellulosic biomass. In: Biotechnology for Sustainable Development, Eds. Malik et al, Pub. NIBGE, Faisalabad, pp347-354.
148. Rajoka, M.I., A. Bashir and K. A. Malik, (1995). Gamma-ray induced mutagenesis of *Cellulomonas biazotea* NIAB 442 for hyper-production of  $\beta$ -glucosidase :Kinetic analysis of enzyme productivities. Folia Microbiologica (submitted).
149. Khalid, A.M., M.A. Anwar, A.M. Shemsi, G. Niazi, K. Akhtar, T.M. Bhatti & K.A. Malik, (1995). Studies on Bioleaching of Uranium from Low-Grade Sandstone Uranium Ore. pp. 153-164: In: Nuzhat Ahmed, Muhammad Ishaq, Obaid Yousuf Khan and Farzana Sarwar (eds) Biotechnology for Environment and Agriculture. Center for Molecular Genetics, University of Karachi, Karachi 75270, Pakistan.
150. Malik, K.A., S. Mansoor, N. A. Saeed, S. Asad, Y. Zafar, J. Stanley, and P.G. Markham (1995). Development of CLCV-resistant Cotton Varieties through Genetic Engineering. pp 39-41. In Proceedings of National Seminar on Strategies for Increasing Production April 26-27, 1995 April. Agriculture Dept.
151. Mansoor, S., J. Stanley, K. A. Malik and P. G. Markham (1995). Molecular Characterization of a Geminivirus Associated with Cotton Leaf Curl Disease in Pakistan. In: Biotechnology for Sustainable Development, (Eds Malik, Naseem and Khalid) pp: 123-128.
152. Saeed N. A., S. Asad, Y. Zafar and K. A. Malik (1995). Development of in-vitro techniques for transformation of cotton (*G. Hirsutum* L.). In: Biotechnology for Sustainable Development, (Eds Malik, Naseem and Khalid) Proceeding of International Symposium held at NIBGE, Faisalabad, Dec. 15-20, 1993. pp: 99-104.
153. Idris, M., F.Y. hafeez and K.A. Malik. (1995). The effect of cobalt application on the growth, nodulation and nitrogen fixing capacity of *Sesbania rostrata*. The Nucleus, 32(1,2): 83-85.
154. Idris, M., T. Mahmood and K.A. Malik. (1995). Response of berseem (*Trifolium alexandrinum*), shaftal (*Trifolium resupinatum*) and lucerne (*Medicago sttiva*) to phosphorus application for yield, nodulation and nitrogen fixation. The Nucleus, 32(1,2): 71-75.
155. Malik, K.A. (1995). Biotechnology for sustainable development. pp. 3-12. Malik, K.A., A. Nasim and A.M. Khalid (Eds.), Proc. of Intl. Symp. On biotechnology for sustainable development, Dec. 15-20, 1993.

156. Shah, N.A., F.Y. Hafeez, S. Asad, A. Hussain and K.A. Malik. (1995). Isolation and characterization of indigenous *Rhizobium leguminosarum* Bv. Viceae, *nodulating Lens culinaris Medic*, from four Pakistani soils. pp. 211-219. Malik, K.A., A. Nasim and A.M. Khalid (Eds.), Proc. of Intl. Symp. On biotechnology for sustainable development, Dec. 15-20, 1993.
157. Ali, S. and K.A. Malik. (1995). Utilization of azolla-anabaena symbiosis as nitrogen biofertilizer in rice-wheat cropping system. pp. 249-253. Malik, K.A., A. Nasim and A.M. Khalid (Eds.), Proc. of Intl. Symp. On biotechnology for sustainable development, Dec. 15-20, 1993.
158. Khalid, Z.M., S. Iqbal, R.T. Siddiqui, Q.M. Khan and K.A. Malik. (1995). Biotechnological solutions to hazardous effluents from textile industry. pp. 275-282. Malik, K.A., A. Nasim and A.M. Khalid (Eds.), Proc. of Intl. Symp. On biotechnology for sustainable development, Dec. 15-20, 1993.
159. Khan, Q.M., M. Faiz, S. Iqbal, Z.M. Khalid and K.A. Malik. (1995). Isolation and characterization of Tn-induced mutants of biosurfactant producing *Pseudomonas* strains. pp. 369-374. Malik, K.A., A. Nasim and A.M. Khalid (Eds.), Proc. of Intl. Symp. On biotechnology for sustainable development, Dec. 15-20, 1993.
160. Ali, S., A. Hamid, G. Rasul and K.A. Malik. (1995). Use of biofertilizers to increase rice yield, nitrogen uptake and fertilizer-N use efficiency in saline soils. Pak. J. Bot. 27(1).
161. Shabnam, S., Y. Zafar and K.A. Malik. (1996). Transformation of alfalfa (*Medicago sativa* L.) plants with GUS marker containing intron. Pak. J. Bot. 28(2): 167-172.
162. Siddiqui, K. S, M.J. Azhar, M. H. Rashid and M. I. Rajoka, (1996). Activity and thermostability of carboxy methyl cellulase from *Aspergillus niger* is strongly influenced by non-covalently attached polysaccharides. World J. Microbiol. Biotech. 12(3): 213-216.
163. Faheem Aftab, Y. Zafar, K. A. Malik and J. Iqbal (1996) Plant regeneration from embryogenic cell suspensions and protoplasts in Sugarcane (*Saccharum* spp. Hybrid, CV. CoL 54). Plant Cell Tissue & Organ Culture 44:71-78.
164. Bashir A., S. Shabnam, M. Saeed, N. A. Saeed, S. Mansoor, Y. Zafar and K. A. Malik (1996). Isolation, Identification and Molecular Characterization of cotton leaf curl virus in Pakistan. Paper presented in the Rockefeller Foundation Conference on "Whiteflies and Viruses: Menace to World Agriculture", 12-16 August, 1996.
165. Rajoka, M.I., R. Tabassum and K.A. Malik (1996). Anaerobic degradation of renewable biomass for methane production. In: *Proceed. Bioenergy' 96*, 15-19, 1996 September, Opryland Hotel, Nashville, USA. pp. 843-850.
166. Mahmood, K., K.A. Malik, M.A.K. Lodhi and K.H. Sheikh (1996). Seed germination and salinity tolerance in plant species growing on saline wastelands. *Biologia Plantatum* 38(2): 309-315
167. Pervez, S., M.I. Rajoka and K.A. Malik. (1996). Utilization of agricultural wastes: Cloning of Endoglucanase genes from *Cellulomonas Biazotea* into *E. Coli* and *Saccharomyces Cerevisiae* using shuttle vector YEP24. *Biotechnology for Environment and Agriculture*, Eds. N. Ahmad, M. Ishaq, O.Y. Khan and F. Sarwar: 265-271.
168. Malik, K. A. (1996). Soil Organic Matter. *Soil Science*, Author A. Rashid: 235-258.
169. Rajoka, M.I. and K.A. Malik (1997). Enhanced production of cellulases by strains of *Cellulomonas* grown on cellulosic residues. *Folia Microbiologica* 42/1 :49-53.
170. Mahmood, T., F. Azam, F. Hussain and K.A. Malik. (1997). Carbon availability and microbial biomass in soil under an irrigated wheat-maize cropping system receiving different fertilizer treatments. *Biol Fertil Soils* 25: 63-68.

171. Ladha, J.K., F.J. de Bruijn and K.A. Malik. (1997). Introduction: Assessing opportunities for nitrogen fixation in rice - a frontier project. *Plant and Soil* 194: 1-10.
172. Malik, K.A., R. Bilal, S. Mehnaz, G. Rasul, M.S. Mirza and S. Ali. (1997). Association of nitrogen-fixing, plant-growth-promoting rhizobacteria (PGPR) with kallar grass and rice. *Plant and Soil* 194: 37-44.
173. Saeed, N.A., Y. Zafar and K.A. Malik. (1997). A simple procedure of *Gossypium* meristem shoot tip culture. *Plant Cell, Tissue and Organ Culture* 51: 201-207.
174. Iqbal. M.J., N. Aziz, N.A. Saeed, Y. Zafar and K.K. Malik. (1997). Genetic Diversity evaluation of some elite cotton varieties by RAPD analysis. *Theor Appl Genet* 94: 139-144.
175. Rajoka, M.I. and K. A. Malik (1997). Cellulase production by *Cellulomonas biazotea* cultured in media containing different cellulosic substrates. *Biores. Technol.* 59:21-27
176. Rajoka, M.I., A. Bashir and K.A. Malik (1997). Mutagenesis of *Cellulomonas biazotea* for enhanced production of xylanases. *Biores. Technol* 62(3): 99-108.
177. Rajoka, M.I., A. Bashir and K. A. Malik, (1997). Gamma-ray induced mutagenesis of *Cellulomonas biazotea* for improved production of cellulases. *Folia Microbiologica.* 43(1):15-22
178. S. Mansoor, S.H. Khan, M. Saeed, A. Bashir, Y. Zafar and K.A. Malik (1997). Evidence for the association of a bipartite geminivirus with tomato leaf curl disease in Pakistan. *Plant Disease* 81, 958.
179. Pervez, S.; M.I., Rajoka, M.N. Ahmed; F. Latif; R. Shahid and K.A. Malik (1997). Citric acid production from sugar cane-molasses by 2-deoxyglucose-resistant mutant strain of *Aspergillus niger*. *Folia Microbiol.* 43. 59-62.
180. Rasul, G., M.S. Mirza, F. Latif and K.A. Malik. (1998). Identification of plant growth hormones produced by bacterial isolates from rice, wheat and kallar grass. *In: Proceedings of 7th international Symposium on Nitrogen Fixation with Non-legumes held at Faisalabad, 16-21 October 1999.* Eds. K.A. Malik, M.S. Mirza and J.K. Ladha. Kluwer Academic Publishers. pp 360: ISBN: 0-7923-4873-7.
181. Ali, S., N. Hamid, G. Rasul, S. Mehnaz and K.A. Malik. (1998). Contribution of non-leguminous biofertilizers to rice biomass, nitrogen fixation and fertilizer-N use efficiency under flooded soil conditions. *In: Proceedings of 7th international Symposium on Nitrogen Fixation with Non-legumes held at Faisalabad, 16-21 October 1999.* Eds. K.A. Malik, M.S. Mirza and J.K. Ladha. Kluwer Academic Publishers. pp 360: ISBN: 0-7923-4873-7.
182. M. Samina, M.S. Mirza, U. Hassan and K.A. Malik. (1998). Detection of inoculated plant-growth-promotion rhizobacteria in the rhizosphere of rice. *In: Proceedings of 7th international Symposium on Nitrogen Fixation with Non-legumes held at Faisalabad, 16-21 October 1999.* Eds. K.A. Malik, M.S. Mirza and J.K. Ladha. Kluwer Academic Publishers. pp 360: ISBN: 0-7923-4873-7.
183. Ping, S.Z., M. Lin, Y.U. Liu, C.B. You and K.A. Malik. (1998). Soil tolerance of diazotroph *Alcaligenes faecalis* and its salt-tolerant association with host rice. *In: Proceedings of 7th international Symposium on Nitrogen Fixation with Non-legumes held at Faisalabad, 16-21 October 1999.* Eds. K.A. Malik, M.S. Mirza and J.K. Ladha. Kluwer Academic Publishers. pp 360: ISBN: 0-7923-4873-7.
184. H. Uzma, M.S. Mirza, S. Mehnaz, G. Rasul and K.A. Malik. (1998). Isolation and identification of diazotrophic bacteria from rice, wheat and kallar grass. *In: Proceedings of 7th international Symposium on Nitrogen Fixation with Non-legumes held at Faisalabad, 16-21 October 1999.* Eds.

- K.A. Malik, M.S. Mirza and J.K. Ladha. Kluwer Academic Publishers. pp 360: ISBN: 0-7923-4873-7.
185. Ali, S., N. Hamid, D. Khan and K.A. Malik. (1998). Use of Azolla as biofertilizer to enhance crop yield in a rice-wheat cropping system under mild climate. *In: Proceedings of 7th international Symposium on Nitrogen Fixation with Non-legumes held at Faisalabad, 16-21 October 1999.* Eds. K.A. Malik, M.S. Mirza and J.K. Ladha. Kluwer Academic Publishers. pp 360: ISBN: 0-7923-4873-7.
  186. Rashid, M.H., K.S. Siddiqui, A.R. Shakoory, M.I. Rajoka and K.A. Malik. (1998). Purification and characterization of chemically modified Beta-Glucosidases from *Aspergillus niger* NIAM-280. *Pakistan Journal of Zoology*, Vol. 30(1): 23-30.
  187. Mansoor, S., M. Hussain, S.H. Khan, A. Bashir, A.B. Leghari, G.A. Panwar, W.A. Siddiqui, Y. Zafar and K.A. Malik. (1998). Polymerase chain reaction-based detection of cotton leaf curl and other whitefly-transmitted geminiviruses from Sindh. *Pakistan Journal of Biological Sciences*, 1(1): 39-43.
  188. Mahmood, T., K.A. Malik, S.R.A. Shamsi and M.I. Sajjad. (1998). Denitrification and total N losses from an irrigated sandy-clay loam under maize-wheat cropping system. *Plant and Soil* 199: 239-250.
  189. Mahmood, T., G.R. Tahir and K.A. Malik. (1998). Denitrification losses from an irrigated sandy-clay loam under wheat-maize cropping system receiving different fertilizer treatments. *Biol Fertil Soils* 26: 35-42.
  190. Rajoka, M.I., Bashir, A., Hussain, S.R.A. and Malik, K.A. (1998). ( $\gamma$ -Ray induced mutagenesis of *Cellulomonas biazotea* for improved production of cellulase. *Folia Microbiol.* 43(1): 15-22.
  191. Parvez, S., M.I. Rakoja, M.N. Ahmad, F.Latif, E.Shahis and K.A. Malik. (1998). Citric acid production from sugarcane molasses by 2-Deoxyglucose-Resistant mutant of *Aspergillus niger*. *Folia Microbiol.* 43(10):59-62
  192. S. Mansoor, M. Hussain, S.H. Khan, A. Bashir, A.B. Leghari, G.A. Panwar, W. A. Siddiqui, Y. Zafar and K.A. Malik (1998). Polymerase Chain Reaction-based Detection of Cotton Leaf Curl and Other Whitefly-transmitted Geminiviruses from Sindh. *Pakistan Journal of Biological Sciences*, 1(1): 39-43.
  193. Hafeez F.Y., Tanvir Ahmad, S. Hameed, S.K.A. Danso and K.A. Malik (1998). Comparison of direct and indirect methods of measuring nitrogen fixation in field grown chickpea genotypes. *Pak. J. Bot.* 30(2): 199-207.
  194. Rajoka, M.I., A. Bashir, M.R. Ashfaq, T.M. Ghauri and K.A. Malik (1996). Some bgl and egl genes conferring  $\beta$ -glucosidase and endo-glucanase production on *Escherichia col.* *Biohorizon*, published by University of Agriculture, Faisalabad Eds. M.A. Sohail and M.Ahmad.pp. 31-42
  195. S. Mansoor, A. Bashir, S.H. Khan, M. Hussain, Y. Zafar, K.A. Malik (1999). Rapid Multiplex PCR for the Specific Detection of Two Whitefly-Transmitted Geminivirus Species Associated with Cotton Leaf Curl Disease in Pakistan. *Pak. J. Boty*, 31:115-123.
  196. Mansoor, S., Khan, S. H., Bashir, A., Saeed, M., Zafar, Y. Briddon, R.W., Stanley, J., Markham, P.G., & Malik, K.A. (1999). Identification of a novel circular single-stranded DNA associated with cotton leaf curl disease in Pakistan. *Virology* 259, 190-199.
  197. Rajoka, M.I., A. Bashir, S. Parvez and K.A. Malik (1999). Gamma ray-induced mutagenesis of *Cellulomonas biazotea* for hyper-production of cellulases: Induction, regulation and production of

endo-glucanase and  $\beta$ -glucosidase by *Cellulomonas biazotea*. Biohorizon, University of Agriculture, Faisalabad. Eds. M.A. Sohail and M. Ahmad pp.89-106.

198. Rajoka, M.I.; R. Tabassum and K.A. Malik (1999). Enhanced uptake rate of methanol and acetate for production of methane in batch cultures using a novel strain of *Methanosarcina mazei* which grows to high cell densities. *Biores. Technol.* 67: pp315-319.
199. Mansoor, S., Sultan H. Khan, Zafar Y., Peter G. Markham and Malik K.A., (1999). Evaluation of Cotton Genotypes for Resistance to Cotton Leaf Curl Virus and its Correlation With the Level of Viral DNA. *Pak. J. Bot.*, Vol. 32.
200. Rajoka, M.I., and K.A. Malik (1999). *Cellulomonas: a review. Encyclopedia Food Microbiology.* 31: 365-371.
201. Hafeez, F.Y., N.H. Shah and K.A. Malik (2000). Field evaluation of lentil genotypes, inoculated with *Rhizobium leguminosarum* bv. *Viciae* strains, for nitrogen fixation using  $^{15}\text{N}$  isotope dilution method. *Biol. Fert. Soil.* 31(1): 65-69.
202. Shah, N.H., F.Y. Hafeez, M. Arshad and K.A. Malik (2000). Response of lentil to nitrogen and phosphorus fertilizers and inoculation with *Rhizobium leguminosarum* bv. *Viciae* strains. *Aust. J. Expt. Agri.* 40. 93-98.
203. Mansoor S., S.H. Khan, M. Hussain, N. Mushtaq, Y. Zafar, and K.A. Malik (2000). Evidence that Watermelon Leaf Curl Disease in Pakistan is Associated with Tomato Leaf Curl Virus-India. *Plant Disease* 84: 102.
204. Khan, M.S., Zafar Y. and K.A. Malik (2000) Light That Reflects Your Effort. *Int. J. Agri. Biol.*, Vol. 2, No. 4, 2000. 396-399.
205. K.A. Malik and Hussain A. (2000) Plant Variety Protection for Rice in Developing Countries: Impacts on Research and Development. Ed. W.G. Padolina. IRRI Limited Proceedings No. 3 (2000) 99-103.
206. S.A. Khan, D. Hussain, E. Askari, J. McD Stewart, K.A. Malik and Y. Zafar (2000) Molecular phylogeny of *Gossypium* species by DNA fingerprinting. *Theor. Appl. Genet* (2000) 101:931-938 (Springer-Verlag 2000).
207. F.Y. Hafeez, N.H. Shah, K.A. Malik (2000) Field evaluation of lentil cultivars inoculated with *Rhizobium leguminosarum* by *viciae* strains for nitrogen fixation using nitrogen-15 isotope dilution. *Biol. Fertil. Soils* (2000) 31: 65-69 (Springer-Verlag 2000).
208. M. S. Mirza, G. Rasul, S. Mehnaz, J. K. Ladha, R.B. So, S. Ali and K.A. Malik (2000) Beneficial effects of inoculated nitrogen-fixing bacteria on rice. Proceedings of the Third Working Group Meeting on Assessing Opportunities for Nitrogen Fixation in Rice, 9-12 Aug. 1999, Los Banos, Laguna, Philippines. Makati City (Philippines): IRRI, 354 p.
209. S. Mansoor, S. Mukhtar, M. Hussain, I. Amin, A. Bashir, Y. Zafar and K.A. Malik (2000). Wide spread occurrence of cotton leaf curl virus on radish in Pakistan. *Plant Disease* 84, 101.
210. M.S. Khan, Y. Zafar and K.A. Malik (2001) Plastid genome engineering: A new road to develop environment friendly transgenic plants. *Proc. Pakistan Acad. Sci.* 38(1):47-58 (2001). ISSN 0377-2969.
211. Z. Aslam, M. Y. Ashraf, R.A. Waheed, A.S. Bhatti, A.R. Awan, M. Mujtaba, M.A.A. Qureshi, M.A. Gill and K.A. Malik (2000) Saline Silvopastoral System for Cholistan (to be published in Handbook on Cholistan).
212. T. Mahmood, F. Azam and K.A. Malik (2001) Denitrification Loss from Irrigated Croplands in the Faisalabad Region - A Review of the Available Data. *Pak. J. Soil Sci.*, Vol. 19: 41-50 (2001).

213. M. Sajjad Mirza, W. Ahmad, F. Latif, J. Haurat, R. Bally, P. Normand and K.A. Malik (2001) Isolation, partial characterization, and the effect of plant growth-promoting bacteria (PGPB) on micro-propagated sugarcane *in vitro*. *Plant and Soil* 237: 47-54, 2001.
214. R.W. Briddon, s. Mansoor, I. Bedford, M. Pinner, K. Saunders, J. Stanley, Y. Zafar, K.A. Malik and P.G. Markham (2001). Identification of DNA components required for induction of cotton leaf curl disease. *Virology* 285, 234-243.
215. R. Ahmad and K.A. Malik (2002) Prospects for Saline Agriculture in Pakistan: Today and Tomorrow. Kluwer Academic Publishers, Netherlands.
216. K.A. Malik (2002) Sustainable Agriculture – An Overview. Proceedings of National Workshop on Technologies for Sustainable Agriculture, 24-26 September, 2001, NIAB, Faisalabad (ISBN 969-8038-09-4).
217. J. Akhtar, K. Mahmood, M.A. Tasneem, M.H. Naqvi and K.A. Malik (2002) Comparative Water Use-Efficiency of *Sporobolus arabicus* and *Leptochloa fusca* and its Relation with Carbon-Isotope Discrimination Under Semi-Arid Conditions, *Plant and Soil* 1-7 (2002).
218. S. Mansoor, R.W. Briddon, S.E. Bull, I.D. Bedford, A. Bashir, M. Hussain, M. Saeed, Y. Zafar, K.A. Malik, C. Faquet and P.G. Markham (2002). Relaxed specificity for interaction of cotton begomoviruses with DNA beta. *Journal of General Virology*.
219. Z. Aslam, A.R. Awan, M.A.A. Qureshi, T. Mahmood, M.I. Haq, A.K. Chaudhry and K.A. Malik (2002) Growth, ion uptake, agro-industrial uses and environmental implications of *Eucalyptus camaldulensis* in saline systems, *Prospects for Saline Agriculture*, 277-285, 2002. Kluwer Academic Publishers, Netherlands.
220. K.A. Malik and A. Nasim (2002) Biotechnology for Sustainable Water Use, *Water and New Technology*, Ed. Dr. Ishfaq Ahmad, Oct. 2002, Global Change Impact Studies Centre, Islamabad, Pakistan
221. S. Asad, W.A.A. Haris, M.M. Raja, A. Asghar, K.A. Malik and Y. Zafar (2002). Introduction of a foreign gene in a local cultivar of cotton by *Agrobacterium tumefaciens*. (Submitted to *Pakistan Journal of Botany*).
222. M. Saeed, A. Bashir, A. Faisal, N. Ahmad, Z. Qamar, K.A. Malik and Y. Zafar (2002). Development of antibodies against in-vitro expressed coat Protein and replication associated protein of cotton leaf curl virus. (Submitted to *Microbiology & Immunology*, Japan).
223. J. Akhtar, S. Ahmed and K.A. Malik (2002) Use of Brackish Water for Agriculture Growth of Salt-Tolerant Plants and their Effects on Soil Properties. ISSN 1027-96IX *Science Vision*, Vol. 7, No. 3 & 4, 2002.
224. S. Asad, W.A.A. Haris, A. Bashir, Y. Zafar, K.A. Malik, N.N. Malik and C.P. Lihtenstein (2003). Transgenic tobacco and cotton expressing geminiviral RNAs and resistant to the serious viral pathogen causing cotton leaf curl disease. *Arch Virol* (2003), 1-11. (DOI 10.1007/s00705.003.0179.5).
225. J. Akhter, K. Mahmood, M.A. Tasneem, M.H. Naqvi and K.A. Malik (2003). Comparative water-use efficiency of *Sporobolus arabicus* and *Leptochloa fusca* and its relation with carbon-isotope discrimination under semi-arid conditions. *Plant and Soil* 249, 263-269 (2003).
226. J. Akhter, K. Mahmood, K.A. Malik, S. Ahmed and R. Murray (2003). Amelioration of a saline sodic soil through cultivation of a salt-tolerant grass *Leptochloa fusca*. *Environmental Conservation* 30 (2): 168-174 (2003): Foundation for Environmental Conservation.

227. S. Mansoor, I. Amin, S. Iram, M. Hussain, Y. Zafar, K.A. Malik and R.W. Briddon (2003). Breakdown of resistance in cotton to cotton leaf curl disease in Pakistan. *Plant Pathology* 52, 784 (2003).
228. S. Mansoor, R.W. Briddon, S.E. Bull, I.D. Bedford, A. Bashir, M. Hussain, M. Saeed, Y. Zafar, K.A. Malik, C. fauquet and P.G. Markham (2003). Cotton leaf curl disease is associated with multiple monopartite begomoviruses supported by single DNA  $\beta$ . *Arch Virol* (2003), 1-18. (DOI 10.1007/s00705-003-0149-y).
229. M. Hussain, S. Mansoor, I. Amin, S. Iram, Y. Zafar, K.A. Malik and R.W. Briddon (2003). First report of cotton leaf curl disease affecting chili peppers. *Plant Pathology* 25, 809 (2003).
230. M. Gull, F.Y. Hafeez, M. Saleem and K.A. Malik (2003). P-uptake and growth promotion of chickpea by co-inoculation of mineral phosphate solubilizing bacteria and a mixed rhizobial culture. *Australian Journal of Experimental Agriculture*, Vol. 44, Issue 3 (2003).
231. S. Hameed, S. Yasmin, K.A. Malik (2004): *Rhizobium*, *Bradyrhizobium* and *Agrobacterium* strains isolated from cultivated legumes. *Biol Fertil Soils* 39:179-185 (2004).
232. J. Akhter, R. Murray, K. Mahmood, K.A. Malik and S. Ahmed (2004). Improvement of degraded physical properties of a saline-sodic soil by reclamation with kallar grass (*Leptochloa fusca*). *Plant and Soil* 258: 207-216 (2004).
233. F.I. Naeem, M. M. Ashraf, K.A. Malik and Fayzia Y. Hafeez (2004). Competitiveness of Introduced *Rhizobium* Strains for Nodulation in Fodder Legumes. *Pak. J. Bot.*, 36(1): 159-166, 2004.
234. S.Yasmin, M.A.R. Bakar, K.A. Malik and F.Y. Hafeez (2004). Isolation, characterization and beneficial effects of rice associated plant growth promoting bacteria from Zanzibar soils. *J. Basic Microbiol.* 44/3, 241-252 (2004).
235. F.Y. Hafeez, M.E. Safdar, A.U. Chaudhry and K.A. Malik (2004). Rhizobial inoculation improves seedling emergence, nutrient uptake and growth of cotton. *Australian Journal of Experimental Agriculture*, 44, 617-622 (2004).
236. M. Gull, F.Y. Hafeez, M. Saleem and K.A. Malik (2004). Phosphorus uptake and growth promotion of chickpea by co-inoculation of mineral phosphate solubilising bacteria and a mixed rhizobial culture. *Australian Journal of Experimental Agriculture*, 2004, 44, 623-628.
237. F.Y. Hafeez, F.I. Naeem, R. Naeem, A.H. Zaidi and K.A. Malik (2005). Symbiotic effectiveness and bacteriocin production by *Rhizobium leguminosarum* by *viciae* isolated from agriculture soils in Faisalabad. *Environmental and Experimental Botany* 54 (2005) 142-147.
238. T. Mahmood, R. Ali, K.A. Malik, Z. Aslam and S. Ali (2005). Seasonal Pattern of denitrification under an irrigated wheat-maize cropping system fertilized with urea and farmyard manure in different combinations. *Biol. Fertil. Soils* (2005) 42: 1-9.
239. Z. Naureen, S. Yasmin, S. Hameed, K.A. Malik and F. Y. Hafeez (2005). Characterization and screening of bacteria from rhizosphere of maize grown in Indonesian and Pakistani soils. *J. Basic Microbiol.* 45 (2005) 6, 447-459.
240. K.A. Malik and Y. Zafar (2005). Intellectual Property Rights in Plant Biotechnology: A Contribution to Crop Biosecurity. *Asian Biotechnology and Development Review*. Vol. 8 No. 1, November 2005 (ISSN: 0972-7566). (Special Issue on Expanding Frontier of Biotechnology: Biosecurity and Biosafety).

241. Hafeez, F.Y., S. Yasmin, Dini Ariani, Dorjyn Naranchimeg, Bongosurengyn Delgermaa, M. Rahman, K.A. Malik and Y. Zafar, 2006. Plant Growth-Promoting Bacteria as Biofertilizer. *Agron. Sustain. Dev.*, 26: 143-150.
242. Hafeez, F.Y., F.I. Naeem, N. Shaheen and K.A. Malik. 2007. Nodulation of *Sesbania* spp. by introduced rhizobia in competition with naturalized strains in different soil types. *Pakistan J. of Botany* 39(3): 919-929.
243. Hamid, N., S. Ali, K.A. Malik and F.Y. Hafeez (2007). Diagnosis of nutritional constraints of *Azolla* spp. To enhance their growth under flooded conditions of salt affected soils. *Pak. J. of Bot.* 39(1): 161-167. (IF: 0.153)
244. Iqbal, S., Bashir, A., Naseer, H.M., Ahmed, M. and Malik. K.A. 2007. Identification of differentially expressed genes in developing cotton fibers (*Gossypium hirsutum* L) through Differential Display. *Electronic Journal of Biotechnology* [online]. 15 January 2008, <http://www.ejbiotechnology.info/content/next/index.html>
245. Khan, S.A., Zafar. Y., Briddon, R.W., Malik, K.A. and Mukhtar, Z. (2006). Spider venom toxin protects plants from insect attack. *Transgenic Research*, 15(3): 349-357.
246. Mirza M.S., Mehnaz S., Normand P., Prigent-Comboret C., Moenne-Loccoz Y., Bally R. and Malik K.A. 2006. Molecular characterization and PCR detection of a nitrogen-fixing *Pseudomonas* strain promoting rice growth. *Biol. Fertil. Soils* 43 :163-170
247. Mirza BS, Mirza MS, Bano A and Malik KA 2007. Inoculation of chickpea with *Rhizobium* isolates from roots and nodules and phytohormone producing *Enterobacter* strains. *Australian J. Experimental Agriculture* 47:1008-1015.
248. Mubeen, F., A. Aslam, M.A. Sheikh, T. Iqbal, S. Hameed, K.A. Malik and F.Y. Hafeez, 2006. Response of wheat yield under combine use of Fungicide and Biofertilizer. *International Journal of Agriculture and Biology*. 8(5): 580-582.
249. Mubeen, F., M.A. Shiekh, T. Iqbal, Q.M. Khan, K.A. Malik and F.Y. Hafeez, 2006. *In vitro* investigations to explore the toxicity of fungicides for Plant Growth Promoting Rhizobacteria. *Pakistan Journal of Botany*, 38(4): 1261-1269. (IF: 0.153).
250. Tariq, M., S. Hameed, K.A. Malik and F.Y. Hafeez (2007). Plant root associated bacteria for zinc mobilization in rice. *Pak. J. Bot*
251. Yao, T., S. Yasmin, K.A. Malik and F.Y. Hafeez. 2007. Potential role of rhizobacteria isolated from North-western China for enhancing wheat and oat yield. *Journal of Agriculture Science*, 147: 1-18.
252. Farrukh Naeem, Kauser Abdulla Malik And Fauzia Yusuf Hafeezpak. *Pisum Sativum-Rhizobium Interactions Under*, *Pak. J. Bot.*, 40(6): 2601-2612, 2008.
253. Iqbal, S., Bashir, A., Naseer, H.M., Ahmed, M. and Malik. K.A. 2008. Identification of differentially expressed genes in developing cotton fibers (*Gossypium hirsutum* L) through Differential Display. *Electronic Journal of Biotechnology* [online]. 15 January 2008, <http://www.ejbiotechnology.info/content/vol11/issue1/index.html> .
254. Asma Imran, Fauzia Yusuf Hafeez, Anja Frühling, Peter Schumann, Kauser Abdulla Malik and Erko Stackebrandt (2009) *Ochrobactrum ciceri* sp. nov., isolated from nodules of *Cicer arietinum* in Pakistan. Published online ahead of print on 14 August 2009 as doi:ijs.0.013987-0 *Int J Syst Evol Microbiol* (2009); DOI 10.1099/ijs.0.013987-0
255. Uzma Hanif, Shabib Haider Syed, Rafique Ahmad, Kauser Abdullah Malik, (2010) Economic Impact of Climate Change on the Agricultural Sector of Punjab, *The Pakistan Development Review*, Winter 2010, Vol. 49, No.4 Part II
256. Hafiza Masooma Naseer Cheema, Asia Khatoon, Aftab Bashir And Kauser a, Malik (2010) Effect Of Different Antimicrobial Agents On The Fiber Development Of *In Vitro* Cultured Cotton Ovules, *Pak. J. Bot.*, 42(2): 4235-4242, 2010.

257. Hafiza Masooma Naseer Cheema, Aftab Bashir, Asia Khatoon, Nadia Iqbal, Yusuf Zafar, Kauser A Malik (2010) Molecular characterization and transcriptome profiling of expansin genes isolated from *Calotropis procera* fibers, *Electronic Journal of Biotechnology* 13 (6), 10-11
258. Humera Aslam Awan, Asma Imran, Ahmad Zaheer, Sajjad Mirza & Kauser Abdullah Malik. (2011) Microbial diversity and molecular signals controlling plant-microbe interaction in rhizosphere of grasses including wheat. *Proceedings of the 2nd Asian PGPR Conference August 21-24, 2011, Beijing, PR China, (Page:207:211)*
259. Salma M., M. S. Mirza and K. A. Malik. (2012). Microbial and metagenomic studies in rhizosphere of para grass (*Urochloa mutica* (Forsk) growing under saline conditions. Manuscript under preparation.
260. Sharoon Akhter a, Asma Saeed b, Muhammad Irfan a, Kauser Abdullah Malik (2012) Invitro dephytinization bioavailability of essential minerals in several wheat varieties. *Journal of Cereal Science* 56 (2012) 741-746.
261. Yaqoob, C., Awan, H.A., Maqbool, A. & **Malik, K.A** (2013) Microbial diversity of the rhizosphere of kochia (*Kochia indica*) growing under saline conditions. *Pakistan journal of botany.*, 45(S1): 59-65.
262. Abdul Razzaq, Muhammad Irfan, Mashkooor Mohsin, Kauser Abdulla Malik (2013) Molecular Diagnostics Of Foodborne Pathogens, *Pure Appl. Bio.*, 2(2): 69-75, June- 2013.
- 263.
264. NAZ, F., Maqbool, A. & **Malik, K.A** (2013) Degradation of legume phytate in soil using fungal phytase *Pakistan journal of botany* 45(3): 1017-1022.
265. Razzaq, A., Irfan, M., Mohsin, M. And **Malik, K.A.** (2013). Molecular diagnostics of foodborne pathogens. *Pure Appl. Bio.*, 2(2): 69-75.
266. John, E., Maqbool, A. & **Malik, K.A** (2014) *Agrobacterium tumefaciens* mediated optimization of transformation in *Populus deltoids*. *Pakistan journal of botany* 46(3): 1079-1086,
267. E. John, A. Maqbool, **Kauser Malik.** (2014) Optimization of *Agrobacterium tumefaciens* mediated transformation in *Populus deltoides*, *Pakistan Journal of Botany* 46(3):1079-1086 · May 2014
268. Abid, N., Maqbool, A., **Malik, K.A** (2014) Screening commercial wheat (*Triticum aestivum* L.) varieties for *Agrobacterium* mediated transformation ability. *Pakistan Journal of Agricultural Sciences* 51(1): 83-89.
269. Muther Mansoor Qaisrani, Muhammad Sajjad Mirza, Ahmad Zaheer and **Kauser A. Malik.** (2014) Isolation And Identification By 16s Rrna Sequence Analysis Of *Achromobacter*, *Azospirillum* And *Rhodococcus* Strains From The Rhizosphere Of Maize And Screening For Thebeneficial Effect On Plant Growth.
270. Ammara Ahad, Asma Maqbool, **Kauser Malik**(2014) Optimization of *agrobacterium tumefaciens* mediated transformation in *eucalyptus camaldulensis*. *Pakistan Journal of Botany* 46(2):735-740 · March 2014
271. Ahad, A., Maqbool, A., & **MALIK K. A.** (2014) *Agrobacterium tumefaciens* mediated optimization of transformation in *eucalyptus camaldulensis*. *Pakistan journal of botany.* 46(2): 735-740.
272. Asma Imran, Marryam Jumma Abdulla Saadalla, Sami-Ullah Khan, Muhammad Sajjad Mirza, Kauser Abdulla Malik, Fauzia Yusuf Hafeez (2014) *Ochrobactrum* sp. Pv2Z2 exhibits multiple traits of plant growth promotion, biodegradation and N-acyl-homoserine-lactone quorum sensing, *Annals of Microbiology*, Volume 64, Issue 4, Pages1797-1806, Publication date 2014/12/1
273. Hussain, A., Afzal, A., Irfan, M. and **Malik, K.A.** (2015). Molecular Detection of Aflatoxin Producing Strains of *Aspergillus Flavus* from Peanut (*Arachis hypogaea*). *TURJAF.* 3(5): 335-341.
274. Afzal, A., Hussain, A., Irfan, M. and **Malik, K.A.** (2015). Molecular diagnostics for foodborne pathogen (*Salmonella* spp.) from poultry. *Adv. Life Sci.* 2(2): 91-97

275. Asma Imran, Muhammad S. Mirza, Tariq M. Shah, **Kauser A. Malik** and Fauzia Y. Hafeez (2015) Differential response of kabuli and desi chickpea genotypes toward inoculation with PGPR in different soils. published: 25 August 2015, doi: 10.3389/fmicb.2015.00859
276. Samreen Mohsin, Kauser Abdulla Malik, Asma Maqbool, Comparison of phytase activity in roots of wheat varieties grown under different phosphorus conditions. Research in Biotechnology, 2015

### ***Technical Reports***

1. Malik, K.A., K. Sultana, F. Wajid and F. Azam (1982) Biology of Saline-Sodic Soils. (Final Technical Report). Taxonomy of Cellulolytic Fungi Isolated from Salt Affected Soils NIAB/PL-480-SB/1 Faisalabad. p. 169.
2. Hussain A, Azam F. and Malik K.A. (1984) Studies on bound residues on <sup>14</sup>C malathion in soil. Res. Coordination Meeting, Nenherberg, IAEA TEC DDC-306 IAEA, Vienna.
3. Malik, K.A. and S. Ali and A. Bano (1984) Distribution, growth rate and mineralization of Azolla pinnata in low land rice soils. Report, First FAO/IAEA/SIDA co-ordinated Research programme on isotopic studies on nitrogen fixation and nitrogen cycling by blue green algae and Azolla. Dec. 10-14, Vienna, Austria.
4. Malik, K.A., S. Ali and A. Bano (1984) Nitrogen fixation and nitrogen cycling by blue green algae and Azolla. Report for 2nd FAO/IAEA/SIDA Co-ordinated Research Programme, May 5-9, IRRI, Phillipines.
5. Rajoka, M.I. and K.A. Malik (1985) Utilization of biomass produced on saline lands for methane production. Paper presented at Second FAO/IAEA Research Co-ordinated Meeting on Development of Improved Rural Methane Production Utilizing Nuclear Techniques, Padova, Italy, May 13-17.
6. Bhatti T. M., Khalid A. M., Khalid Z.M. and Malik K.A. (1993) Bacterial heap leaching studies of Baghalchur low grade sandstone uranium ore and mill tailings residue. NIBGE/BMFF-1 1993 pp 52.

### **Books**

1. Nitrogen and the Environment. Proceedings of the International Symposium held at Lahore, Jan. 7-12, 1984. Eds. Kauser A. Malik, S.H. Mujtaba Naqvi and M.I.H. Aleem. Published by NIAB, Faisalabad, 1985.
2. Kallar grass - a plant for saline land. Compiled by Kauser A. Malik, Z. Aslam and S.H. Mujtaba Naqvi, NIAB, Faisalabad.
3. Biotechnology for Energy. Proceedings of the International Symposium held at Faisalabad, Dec. 16-21, 1989. Eds: K.A.Malik, S.H.M.Naqvi and M.I.H.Aleem, NIAB/NIBGE, Faisalabad, Pakistan, 1990. ISBN: 696-3038-07-8
4. Biotechnology for Sustainable Development. Proceedings of the International Symposium held at Faisalabad, December 15-20, 1993. Eds: Kauser A. Malik, Anwar Nasim, Ahmed M. Khalid, NIBGE, Faisalabad, PAKISTAN pp. 416. ISBN: 9698189017
5. Proceedings of the 7th International Symposium on Nitrogen Fixation with Non-Legumes, Faisalabad, October 16-21, 1996, Eds. Kauser A. Malik, M. Sajjad Mirza and J.K.Ladha, Kluwer Academic Publishers, The Netherlands, pp 360: ISBN: 0-7923-4873-7.
6. Nitrogen Fixation with Rice; Proceedings of the 2nd Working Group, October 13-15, 1996 Eds: J.K.Ladha, Frans deBruijn and Kauser A. Malik, Kluwer Academic Press, The Netherlands, pp 216,. ISBN: 0-7923-4515-2.

7. Prospects for Saline Agriculture: Tasks for Vegetation Science – 37 edited by R. Ahmad and K.A. Malik, Kluwer Academic Publishers, Netherlands (2002).
8. Biotechnology in Pakistan Status and Prospectus. 2014, Dr. Kauser A Malik, Published by Pakistan Academy of Sciences, ISBN: 978-969-8223-14-4