# LIST OF PUBLICATIONS BY P. A. WAHID

#### **RESEARCH PAPERS**

- 1. Sherin George, Suresh, P.R., Wahid, P.A., Nair, R.B. and Punnoose, K.I. 2009. Active root distribution pattern of *Hevea brasiliensis* determined by radioassay of latex serum. *Agroforestry Systems* 76(2):275-281. (The Netherlands).
- 2. Sajan Kurien, S., Suresh Kumar, P., Kamalam, N.V. and Wahid, P.A. 2006. Intermat and intramat competition in banana studied using <sup>32</sup>P. *Fruits* 61(4):225-236. (France).
- 3. Sajan Kurien, S., Suresh Kumar, P., Kamalam, N.V. and Wahid, P.A. 2006. Relative efficiency of <sup>32</sup>P uptake in banana-based intercropping. *Fruits* 61(6):353-366. (France).
- 4. Betty Bastin and Wahid, P.A. 2004. Dynamics of soil applied carbofuran and accumulation of residues by black pepper vine grown on laterite soil. *J. Plantation Crops* 32(1): 18-24.
- 5. Betty Bastin and Wahid, P.A. 2004. Sorption and persistence of carbofuran in laterite soils. *J. Nuclear Agric. Biol.* 33(1): 1-11.
- 6. Betty Bastin and Wahid, P.A. 2004. Absorption of soil-applied carbofuran by black pepper plants in laterite soil. *J. Spices and Aromatic Crops* 13(1):10-15
- 7. Wahid P.A., Suresh, P.R. and Siji Susan George. 2004. Absorption and partition of <sup>15</sup>N in a black pepper + erythrina system in Kerala, India. *Agroforestry Systems* 60(2):143-147 (**The Netherlands**).
- 8. Wahid, P.A., Kamalam, N.V., Krishna Prabhu, R., Sekhar, J.K., Vijayalaksmi, S., Mahalingam, T.R. and Ajith Kumar, C.E. 2003. Rare earth element fluxes in diverse soils and their absorption by coconut palm. *J. Plant Nutrition* 26:1427-1438 (U.S.A.).
- 9. Kurien, S., Kumar, P.S., Kamalam, N.V. and Wahid, P.A. 2002. Nutrient cycling from the *Musa* mother plant at various physiological stages to suckers as affected byspacing and sucker retention using tracer techniques. *Fruits* 57:143-151 (**France**).
- 10. Wahid, P.A. 2001. Radioisotope studies of root activity and root-level interactions in treebased production systems: a review. *Applied Radiat. Isot.* 54: 715-736 (U.K.).
- 11. Wahid, P.A., Valiathan, M.S., Kamalam, N.V., Eapen, J.T., Vijayalakshmi, S., Krishna Prabhu, R. and Mahalingam, T.R. 2000. Effect of rare earth elements on growth and nutrition of coconut palm and root competition between the palm and *Calotropis gigantea*. *J. Plant Nutrition* 23:329-338 (U.S.A.).
- 12. Wahid, P.A. 2000. A system of classification of woody perennials based on root activity pattern. *Agroforestry Systems* 49: 123-130 (**The Netherlands**).

- 13. Jayamadhavan, A., Sudhakara, K. and Wahid, P.A. 2000. Methods of leaf sampling in teak (*Tectona grandis*) for nutrient analysis. *J. Trop. Forest Sci.* 12:227-237 (Malaysia).
- 14. Kumar, S.S., Mohan Kumar, B., Wahid, P.A., Kamalam, N.V. and Fisher, R.F. 1999. Root competition for phosphorus between coconut, multipurpose trees and kacholam (*Kaempferia galanga*). Agroforestry Systems 46:131-146. (**The Netherlands**)
- Safeena, A.N., Wahid, P.A., Balachandran, P.V. and Sachdev, M.S. 1999. Absorption of molecular urea by rice under flooded and non-flooded soil conditions. *Pl. Soil* 208:161-166. (The Netherlands)
- 16. Wahid, P.A., Kamalam, N.V., Vijayalakshmi, S., Krishna Prabhu, R., Mahalingam, T.R., Eapen, J.T., Dang, H.S., Jaiswal, D.D., Balachandran, P.V., Venugopal, V. K, Suresh, P.R., Unnithan, V.K.G. and Jacob Thomas. 1998. Foliar levels of rare earth elements and thorium in coconut palm in relation to root (wilt) disease. *Curr. Sci.* 75:1180-1183.
- 17. Thomas, J., Mohankumar, B., Wahid, P.A., Kamalam, N.V. and Fisher, R.F. 1998. Root competition for phosphorus between ginger and *Ailanthus triphysa* in Kerala, India. *Agroforestry Systems* 41:293-305. (**The Netherlands**)
- 18. Wahid, P.A., Kamalam N.V. and Padmini Amma, K.P. 1998. Simultaneous reduction of Fe(III) and sulphate in anaerobic soil. *J. Nuclear Agric. Biol.* 27:10-14.
- 19. Mathewkutty, T.I., Wahid P.A. and Tajuddin, E. 1998. Diagnosis and Recommendation integrated system (DRIS) in coconut palm (*Cocos nucifera* L.). 1: Development of the norms. *J.Plant. Crops* 26:31-40.
- 20. Jamaludheen, V., Kuamr, B.M., Wahid, P.A. and Kamalam N.V. 1997. Root distribution pattern of the wild jack tree (*Artocarpus hirstutus* Lamk.) as studied by <sup>32</sup>P soil injection method. *Agroforestry Systems* 35: 329-336. (**The Netherlands**)
- 21. Jomon Joseph and Wahid, P. A. 1996. Dynamics of soil nutrient reserves in coconut rhizosphere as influenced by long term inorganic fertilization. *J. Plant. Crops* 25:44-51.
- 22. Ratheesh, P.K., Balachandran, P.V., Wahid P.A., and Sachdev, M.S. 1997. Relative absorption of molecular urea and other forms of N by rice. *J. Nuclear Agric. Biol.* 26:105-110.
- 23. Mini Abraham, Salam M.A., Wahid P.A. and Kamalam N.V. 1997. Foliar absorption <sup>14</sup>Curea by cashew (*Anacardium occidentale* L.). *J. Nuclear Agric. Biol.* 26:93-104.
- 24. Suman Jacob George, Mohan Kumar, B., Wahid, P.A. and Kamalam, N.V. 1996. Root competition for phosphorus between the tree and herbaceous components of silvipastoral systems in Kerala, India. *Pl. Soil* 179:189-196. (**The Netherlands**)

- 25. Geetha, C. K., Aravindakshan, M. and Wahid, P.A. 1996. Comparison of nutrient response curves in bush pepper and vine pepper (*Piper nigrum* L.). J. Plant. Crops 24:135-138.
- 26. Suja Eapen, Abdul Salam, M. and Wahid, P.A. 1995. Root distribution pattern of colocasia-P-32 soil injection technique. *J. Nuclear Agric. Biol.* 24:98-105.
- 27. Pushpa Joseph, Mercy George, Wahid, P.A., John, P.S. and Kamalam, N.V. 1995. Dynamics of phosphorus mineralisation from P-32 labelled green manure. *J. Nuclear Agric. Biol.* 24:158-162
- 28. Mathew, P.G., Wahid, P.A. and Sreekandan Nair, G. 1995. Soil fertility and nutrient requirement in relation to productivity in black pepper (*Piper nigrum* L.). J. Plant. Crops 23:109-115.
- 29. Beena Bhasker, Abdul Salam, M. and Wahid, P.A. 1995. Nutrient offtake in cashew (*Anacardium occidentale*). *The Cashew* 9(3): 9-16.
- 30. Beena Bhaskar, Abdul Salam, M. and Wahid, P.A. 1995. Root activity of cashew (*Anacardium occidentale* L.) varieties in relation to phenological phases. *J. Plant. Crops* 23:35-39.
- 31. Wahid, P. A, Kamalam, N.V. and Antony, P.C. 1994. Nutrition of coconut palm growing on submerged soil with special reference to coconut husk retting areas. *J. Plant. Crops* 22: 97-103.
- 32. Sivakumar, C. and Wahid, P.A. 1994. Effect of application of organic materials on growth and foliar nutrient contents of black pepper. *J. Spices Aromatic Crops* 3:135-141.
- Wahid, P.A. and Kamalam, N.V. 1993. Reductive dissolution of crystalline and amorphous Fe(III) oxides by microorganisms in submerged soil. *Biol. Fertil. Soils* 15:144-148. (Germany)
- 34. Sherine George, Ashokan, P.K. and Wahid, P.A. 1992. An alternate S-35 labelling technique for evaluation of utilization of applied S by flooded rice. *Field Crops Res.* 28:335-344. (The Netherlands)
- Abi Cheeran, Wahid, P.A., Kamalam, N.V., Sajan Kurien and Lyla Mathew. 1992. Effect of variety, spacing and support materials on nutrition and yield of black pepper (*Piper nigrum* L.). Agric. Res. J. Kerala 30:11-16.
- 36. Saraswathi, P., Balachandran, P.V. and Wahid, P.A. 1991. Inhibition of urea hydrolysis in flooded soils and its significance on the molecular absorption of urea by rice. *Soil Biol. Biochem.* 23(2):125-129. (U.K.)

- 37. Sheila, M.K., Abraham, C.C. and Wahid, P.A. 1991. Feeding response of insect pests of brinjal as influenced by sub-lethal doses of insecticides. *J. Nuclear Agric. Biol.* 20:215-217.
- 38. Neera Singh, Wahid, P.A., Murthy, M.V.R.and Sethunathan, N. 1990. Sorption-desorption of methyl parathion, fenitrothion and carbofuran in soils. *J. Environ. Sci. Health B* 25:713-728. (USA)
- 39. Adhya,T.K., Wahid,P.A. and Sethunathan,N. 1990. Radiotracer- aided studies on the fate, persistence and degradation of pesticides in tropical rice soils. Presented to National Symp. Recent Developments in Nuclear and Allied Techniques in Use of Chemicals in Agriculture and Their Implications in Environment, Kerala Agricultural University, Vellanikkara, Dec. 4 -7, 1990. Abstracts of Papers, No. 41.
- 40. Nazeem, P.A., Sivaraman Nair, P.C. and Wahid, P.A. 1990. Distribution and translocation of P-32 in P-starved clove seedlings (*Syzygium aromaticum*). Presented to National Symp. Recent Developments in Nuclear and Allied Techniques in Use of Chemicals in Agriculture and Their Implications in Environment, Kerala Agricultural University, Vellanikkara, December, 4-7, 1990. Abstracts of Papers, No. 74.
- 41. Geetha,C.K., Wahid,P.A. and Aravindakshan,M. 1990. Varietal differences in the utilisation of applied phosphorus in black pepper (*Piper nigrum* L.). Presented to National Symp. Recent Developments in Nuclear and Allied Techniques in Use of Chemicals in Agriculture and Their Implications in Environment, Kerala Agricultural University, Vellanikkara, December, 4 -7, 1990. Abstracts of Papers, No.75.
- 42. Nybe,E.V., Nair,P.C.S and Wahid,P.A. 1989. Relationships of foliar nutrient levels with yield in black pepper (*Piper nigrum* L.). *Trop. Agric.* 66(4):345-349. (**Trinidad**)
- 43. Nybe, E. V., SivaramanNair, P. C. and Wahid, P. A. 1988-89. Diagnosis of nutrient deficiencies in black pepper. *Indian Cocoa Arec. Spices J.* 12(2):32-35.
- 44. Ashokan, P.K., Sreedharan, C. and Wahid, P.A. 1989. Evaluation of cassava-based intercropping systems under different geometries of planting. Paper presented to the Eighth Symp. of the International Society for Tropical Root Crops (ISTRC), Oct. 30 to Nov. 5, 1989, **Bangkok**.
- 45. Anil Kumar,K.S. and Wahid,P.A. 1989. Impact of long-term inorganic fertilisation on soil nutrient availability and nutrition of coconut palm. *Oleagineux* 44(6):281-286. (France)
- 46. Vasanthakumar,K., Mohanakumaran,N. and Wahid,P.A. 1989. Rate of photosynthesis and translocation of photosynthates in cardamom. *J. Plant. Crops* 17(2):96-100.
- 47. Wahid, P.A., Kamalam, N.V., Ashokan, P.K. and Vikraman Nair, R. 1989. Root activity pattern of cocoa (*Theobroma cacao*). *J.Nuclear Agric. Biol.* 18:153-156.

- 48. Wahid, P.A., Kamalam, N.V., Ashokan, P.K. and Vidyadharan, K.K. 1989. Root activity pattern of cashew (*Anacardium occidentale* L.) in laterite soil. *J. Plant. Crops* 17(2):85-89.
- 49. Sobhana, A., Aravindakshan, M. and Wahid, P.A. 1989. Root activity pattern of banana under irrigated and unirrigated conditions. *J. Nuclear Agric. Biol.* 18(2):117-123.
- 50. Ashokan, P.K., Wahid, P.A. and Sreedharan, C. 1989. Root activity pattern of cassava in laterite soil. *J. Root Crops* 15(2):65-70
- 51. Wahid P.A. Kamalam, N.V. and Jayasree Sankar, S. 1988. A device for soil injection of <sup>32</sup>P solution in root activity studies of tree crops. *J. Plant. Crops* 16:62-64.
- 52. Jayasree Sankar, S., Wahid, P.A., and Kamalam, N.V. 1988. Absorption of soil-applied radiophosphorus by black pepper vine and support tree in relation to their root activities. *J. Plant. Crops* 16:73-87.

(This paper received the **Dr. C.S.Venkat Ram Memorial award** for the best research paper published in the journal for the biennium 1988-90, instituted by the Indian Society for Plantation Crops)

- 53. Ashokan, P.K., Wahid, P.A. and Sreedharan, C. 1988. Relative absorption of soil-applied P-32 by cassava, banana, elephant foot yam and groundnut in intercropping systems. *Pl. Soil* 109:23-30. (**The Netherlands**)
- 54. Wahid, P.A. and Kamalam, N.V. 1988. Nutrient distribution in the crowns of healthy and root(wilt) affected coconut palm. *Indian cocon. J.* 18(11):8-12.
- 55. George Mathew, Vasu, K., Vamadevan, V.K. and Wahid, P.A. 1988. Measurement of transpiration rate in coconut palm with tritiated water: Tritium profile in coconut palm. *J. Nuclear Agric. Biol.* 17:110-112.
- 56. Anil Kumar,K.S. and Wahid,P.A. 1988. Root activity pattern of coconut palm. *Oleagineux* 43:337-341. (France)
- 57. Adhya, T.K., Wahid, P.A. and Sethunathan, N. 1987. Presistence and biodegradation of selected organophosphorus insecticides in flooded versus non-flooded soils. *Biol. Fert. Soils* 4:36-40 (Germany)
- 58. Wahid,P.A., Kamalam,N.V. and Jayasree Sankar,S. 1985. Determination of phosporus-32 in wet-digested plant leaves by Cerenkov counting. *Inter*. *J. Appl. Rad. Isot.* 36:323-324. (U.K.)
- 59. Wahid, P.A. 1985. Evaluation of available phosphorus to coconut palms in coastal sandy soils. *Indian Cocon. J.* 16(1):1-4.

- 60. Wahid, P.A. 1984. Diagnosis and correction of nutrient deficiencies in coconut palm. J. *Plant. Crops* 12(2):98-111.
- 61. Abdul Khader,K.B., Wahid,P.A., Kasturi Bai,K.V. and Mohammed Sayed,A.A. 1984. Distribution of nutrients in three varieties of cardamom. *Indian Spices* 18(2-4): 11-13.
- Wahid,P.A., Kamalam,N.V., Venugopal,V.K., Kataria,S.K., Govil, R., Kapoor,S.S. and Lal,M. 1983. X-ray fluorescence spectra of root(wilt) affected coconut palm. *J. Plant. Crops* 11(2): 91-100.
- 63. Pillai,N.G., Kamala Devi,C.B., Wahid, P.A. and Nambiar, C.K.B. 1983. Available micronutrient status of major soil types under coconut in healthy and root (wilt) affected tracts of Kerala, India. In Coconut Research & Development, ed. N.M.Nayar, Wiley Eastern Ltd., New Delhi,pp. 144-151. (Proc. Inter. Symp. Coconut Research and Development, Kasaragod, Dec. 27-30, 1976).
- 64. Wahid ,P.A., Kamalam, N.V. and Venugopal, V.K. 1982. Mineral nutrition of slow wilt affected black pepper (*Piper nigrum*). J. Plant. Crops. 10(1):21-25.
- 65. Wahid, P.A. and Sethunathan, N. 1981. Correspondence: On the sorption of neutral organic solutes in soils . J. Agric. Food Chem. 29:425-426. (USA)
- 66. Wahid, P.A., Kannan, K., Kamalam, N.V. and Venugopal, V.K. 1981. Genotypic and seasonal variations in the mineral nutrition of coconut palm. *J. Plant. Crops.* 9(2): 105-111.
- 67. Kamala Devi, C.B., Narasimhayya,G., Wahid,P.A., Nambiar,C.K.B., Pillai,N.G., Sharma,S.P. and Velayutham, M. 1981. Discriminant classification of Kerala soils in relation to incidence of coconut root(wilt) disease. 1. Soil micronutrient studies. *Philippines J. Coconut Studies.* 6(1): 40-45. (**The Philippines**)
- 68. Wahid, P.A., Ramakrishna, C. and Sethunathan, N. 1980. Instantaneous degradation of parathion in anaerobic soils. *J. Environ. Qual.* 9:127-130. (USA)

(This paper was also included as one of the 51 selected papers in the book, 'Pesticides in Soil' eds.Saltzman, S.and Yaron, B. 1986. Von Nostrand Reinhold Co., New York, pp. 208-211)

- 69. Wahid, P.A. and Sethunathan, N. 1980. Sorption-desorption of lindane by anaerobic and aerobic soils. *J.Agric. Food Chem.* 28:623-625. (USA)
- 70. Sethunathan, N., Barik, S., Venkateswarlu, K., Wahid, P.A., Ramakrishna, C., Pal, S.S., Ray, R.C., Chandrayan, K., Rao, Y.R., Rao, V.R. and Adhya, T.K. 1980. Effects of combined pesticides application their persistence inflooded rice soils. In Agrochemical Residue-Biota Interactions in Soil and Aquatic Ecosystems. International Atomic Energy Agency, Vienna, pp.259-281. (Vienna)

- 71. Wahid, P.A. and Sethunathan, N. 1979. Sorption and desorption of alpha, beta and gamma isomers of hexachlorocyclohexane in soils. *J. Agric. Food Chem.* 27:1050-1053. (USA)
- 72. Wahid, P.A. 1979. Iron reducing capacity as an indicator of parathion-degrading ability of submerged soils. Joint Conference on the Agricultural Industry and its Effects on Water Quality, Hamilton, New Zealand. *Prog. Wat. Tech.* 11(6): 89-94. (U.K.)
- 73. Wahid, P.A. and Sethunathan, N. 1979. Involvement of hydrogen sulphide in the degradation of parathion in flooded acid sulphate soil. *Nature* (London) 282(5737): 401-402.
- 74. Barik, S., Wahid, P.A., Ramakrishna, C. and Sethunathan, N. 1979. A change in the degradation pathway of parathion after repeated applications to flooded soil. *J.Agric.Food Chem.* 27(6):1391-1392. (USA)
- 75. Wahid, P.A., Kamala Devi, C.B. and Haridasan, M. 1978. A critical review of phosphate fertilisation of coconut. *Philippine J. Coconut. Studies* 2(4):1-8. (The Philippines)
- 76. Wahid, P.A. and Sethunathan, N. 1978. Sorption-desorption of parathion in soils. J. Agric. Food Chem. 26:101-105. (USA)
- 77. Wahid, P.A. and Sethunathan, N. 1978. A simple method for studying sorption of pesticides in soils at short time intervals. *Soil Sci.* 126:56-58. (USA)
- 78. Nambiar, C.K.B., Wahid, P.A. and Pillai, N.G. 1978. Effect of different organic sources on the performance of coconut seedlings on coastalsands. *Proc.First Ann.Symp. Plantation Crops PLACROSYM* 1: 292-301.
- Wahid, P.A. and Sethunathan, N. 1978. Sorption-desorption of pesticides in soils. Proc. Symp. Nuclear Techniques in Studies of Metabolism, Effects and Degradation of Pesticides, Feb. 2-4 Sri Venkateswara University, Tirupati, Dept. of Atomic Energy, Govt.of India,Bombay, pp. 80-87.
- Barik, S., Wahid, P.A. and Sethunathan, N. 1978. Conversion of p-nitrophenol to nitrocatechol by <u>Pseudomonas sp</u>. ATCC 29354. *Antonie van Leeuvenhoek* 44: 171-176. (The Netherlands)
- 81. Sethunathan, N., Siddaramappa, R., Rajaram, K.P., Barik, S. and Wahid, P.A. 1977. Parathion: Residues in soil and water. *Residue Rev.* 68: 91-122. (USA)
- 82. Wahid, P.A. and Sethunathan, N.1977. Relationship between omega values and parathion sortpion capacity in soils. *J. Environ.Sci. Health Part. B.* 12:147-154. (USA)
- 83. Nair, P.K.R. and Wahid, P.A. 1976. The soil fertility factors associated with vigorous growth of young coconut palms. *Indian J. Agron.* 21(2): 150-153.

- Kamala Devi, C.B., Wahid, P.A., Pillai, N.G. and Sankaranarayanan, M.P.1975. Effect of NPK fertilisers on trace element nutrition three coconut genotypes. J. Plant. Crops. 3(1): 11-13.
- 85. Nambiar, C.K.B., Wahid, P.A. and Markose, V.T. 1975. Evaluation of seaweed as manure to coconut. *J. Plant. Crops* 3:6-8.
- 86. Wahid, P.A., Kamala Devi, C.B., Philip, G. and Pillai, N.G. 1975. Effect of discontinuation of NPK fertilisation on the NPK nutrition of coconut. *J. Plant. Crops* 3(2): 58-60.
- 87. Pillai, N.G., Wahid, P.A., KamalaDevi, C.B., Ramanandan, L., Cecil, R., Kamalakshiamma, V.G., Mathew, A.S. and Nambiar, C.K.B. 1975. Mineral nutrition of root(wilt) affected coconut palm. *Proc. Fourth Meeting of FAO Working Party on Coconut Production, Protection and Processing, Jamaica. pp.1-20.* (FAO)
- 88. Deb, D. L., Wahid, P.A. and Patel, B.K. 1974. Isotopically exchangeable phosphorus in major coconut soils of Kerala. *J. Indian Soc. Soil Sci.* 22(4): 294-299.
- Wahid, P.A., Kamala Devi, C.B. and Pillai, N.G. 1974. Interrelationships among yield, root CEC and mono-and divalent cations in coconut (*Cocos nucifera* L.). *Pl. Soil* 40(3):607-617. (The Netherlands)
- 90. Kamala Devi, C.B., Pillai, N.G. and Wahid, P.A. 1974. Potassium dihydrogen phosphate, a substitute for phosphoric acid in Mn estimation. *J. Plant. Crops* 2(1): 37-38.
- 91. Kamala Devi, C.B., Pillai, N.G. and Wahid, P.A. 1974. Implications of changes in soil pH on Al, Fe and Mn status of acid soils of Kerala. *Agric. Res. J. Kerala.* 12(1):28-35.
- 92. Muliyar, M.K. and Wahid, P.A. 1973. Note on the movement and availability of phosphorus in laterite soil as influenced by heavy application of phosphorus with special reference to coconut. *Indian J. Agric. Sci.* 43(5): 527-528.
- 93. Wahid, P.A., Pillai, N.G. and Kamala Devi, C.B. 1973. Elimination of acid drift during potentiometric measurement of root CEC. *Curr. Sci.* 42(20): 387-388.
- 94. Pillai, N.G., Wahid, P.A. and Kamala Devi, C.B. 1973. Cation exchange capacity of excised roots of coconut seedlings. *Madras Agric. J.* 60(8):1045-1047.
- 95. Deb, D.L., Sachdev, M.S. and Wahid, P.A. 1973. Some aspects of soil fertility problems of major coconut growing acid soils of Kerala. National symposium on acid sulphate and other acid soils of India, Trivandrum. *Bull. Indian Soc. Soil Sci.* 1976. 11: 260-276.
- 96. Kamala Devi, C.B., Wahid, P.A. and Pillai, N.G. 1972. A note on the extraction of potassium from coconut leaves by various reagents. *Agric. Res. J. Kerala* 10(2):170-173.

## **BOOK CHAPTERS**

- 1. Wahid, P. A. 1996. Radioisotope-aided studies of plant root systems. *in* Isotopes and Radiations in Agriculture and Environment Rsearch. eds. M.S. Sachdev, P. Sachdev and D.L. Deb, Indian Society for Nuclear Techniques in Agriculture and Biology, New Delhi. pp. 87-97.
- 2. Wahid, P.A., Nazeem, P.A. and Nybe, E.V. 1994. Nutrient deficiencies. *in* Advances in Horticulture: Plantation and Spice Crops. (Vol. 9) eds. K.L. Chadha and P. Rethinam, Malhotra Publishing House, New Delhi, pp. 515-544.
- 3. Wahid, P.A., Kamalam, N.V. and Anilkumar, K.S. Coconut.
- 4. Wahid, P.A., Abdul Khader, K.B. and Abdul Salam, M. Cashew.
- 5. Wahid, P.A., Sankar, S.J. and Nybe, E.V. **Black Pepper**.
- 6. Wahid, P.A. and Vikraman Nair, R. Cocoa.

(The latter four chapters in the book, `Rooting Patterns of Tropical Crops' eds. M.Abdul Salam and P.Abdul Wahid, Tata McGraw-HillPublishing Co. Ltd., New Delhi, 1993).

7. Wahid, P.A., Nambiar, P.K.N., Jose, A.I. and Rajaram, K.P. 1988. Soils and nutrition. *in* Six Decades of Coconut Research, Eds. M.Aravindakshan, R.R.Nair and P.A.Wahid, Kerala Agricultural University, Vellanikkara, pp. 46-80.

#### BOOKS

- 1. Wahid, P.A. 2001. An Introduction to Isotopes and Radiations. Allied Publishers Ltd., New Delhi. pp. 157.
- 2. Rooting Patterns of Tropical Crops. 1993. Eds. M. Abdul Salam and P. Abdul Wahid. Tata McGraw-Hill Publishing Co. Ltd., New Delhi. pp. 331.
- 3. Wahid, P.A., Salam, M.A. and Nair, R.R. 1993. A Farmer's Primer on Coconut Cultivation. Kerala Agricultural University, Vellanikkara. pp. 136.
- 4. Wahid, P.A., Salam, M.A. and Nair, R.R. 1993. Thengu Krishikku Oru Margarega (Malayalam Translation of `A Farmer's Primer on Coconut Cultivation'. Kerala Agricultural University, Vellanikkara. pp. 136.
- 5. Six Decades of Coconut Research. 1988. Eds. M.Aravindakshan, R.R. Nair and P.A.Wahid, Kerala Agricultural University, Vellanikkara. pp. 151.

### **INVITED PAPER**

1. Wahid, P. A. 1992. Recent advances in research on nutrient management in plantation cropbased production systems. National Symposium on Maximising and sustaining Crop and Animal Productivity by Modern Techniques. Banaras Hindu University, Varanasi, October 14-17, 1992. Abstracts of Papers. J. Nuclear Agric. Biol., 21: 155-156 (1992).

## POPULAR SCIENTIFIC ARTICLES

- 1. Wahid, P.A. 1990. Balanced fertilizer to coconut. *The Hindu*, July 25, 1990
- 2. Wahid, P.A. 1988. Chlorine, a major nutrient to coconut. *The Hindu*, December 21, 1988

#### **BOOK REVIEW**

1. Wahid, P. A. 1993. Fertilizer Management in Commercial Crops. ed. H.L.S. Tandon. Fertilizer Development and Consultation Organisation, New Delhi, pp. 176. *J. Nuclear Agric. Biol.* 22: 123.