SCIENTIFIC PUBLICATIONS

a. Articles in Reviewed Journals

1. Mizrahi, Y., Amir, J. and Richmond, A.E. (1970). The mode of action of kinetin in maintaining the protein content of detached *Tropaeolum majus* leaves. New Phytol. 69:355-361.

2. Mizrahi, Y., Blumenfeld, A. and Richmond, A.E. (1970). Abscisic acid and transpiration in leaves in relation to osmotic root stress. Plant Physiol. 46:169-171.

3. Mizrahi, Y., Blumenfeld, A., Bittner, S. and Richmond, A.E. (1971). Abscisic acid and cytokinin contents of leaves in relation to salinity and relative humidity. Plant Physiol. 48:752-755.

4. Mizrahi, Y., Blumenfeld, A. and Richmond, A.E. (1972). The role of abscisic acid and salination in the adaptive response of plants to reduced root aeration. Plant Cell Physiol. 13:15-21.

5. Mizrahi, Y. and Richmond, A.E. (1972). Hormonal modification of plant response to water stress. Aust. J. Biol. Sci. 25:427-442.

6. Gur, A., Bravdo, B. and Mizrahi, Y. (1972). Physiological responses of apple trees to supraoptimal root temperature. Physiol. Plant. 27:130-138.

7. Mizrahi, Y. and Richmond, A.E. (1972). Abscisic acid and mineral deprivation. Plant Physiol. 50:667-670.

8. Arad (Malis), S., Mizrahi, Y. and Richmond, A.E. (1973). Leaf water content and hormone effects on ribonuclease activity. Plant Physiol. 52:510-512.

9. Benzioni, A., Mizrahi, Y. and Richmond, A.E. (1974). Effect of kinetin on plant response to salinity. New Phytol. 73:315-319.

10. Mizrahi, Y., Scherings, S.G., Arad (Malis), S. and Richmond, A.E. (1974). Aspects of the effect of ABA on the water status of barley and wheat seedlings. Physiol. Plant. 31:44-50.

11. Mizrahi, Y., Dostal, H.C., McGlasson, W.B. and Cherry, J.H. (1975). Transplantation studies with fruit of normal and *rin* and *nor* mutant tomatoes. Plant Physiol. 55:1120-1122.

12. Mizrahi, Y., Dostal, H.C. and Cherry, J.H. (1975). Ethylene induced ripening in attached *rin* fruits, a non-ripening mutant of tomato. HortSci. 10:414-415.

13. Mizrahi, Y., Dostal, H.C., McGlasson, W.B. and Cherry, J.H. (1975). Effect of abscisic acid and benzyladenine on fruits of normal and *rin* mutant tomatoes. Plant Physiol. 56:544-546.

14. Poovaiah, B.W., Mizrahi, Y., Dostal, H.C., Cherry, J.H. and Leopold, A.C. (1975). Water permeability during tomato fruit development in normal and *rin* non-ripening mutant. Plant Physiol. 56:813-815.

15. Mizrahi, Y., Dostal, H.C, McGlasson, W.B. and Cherry, J.H. (1976). Stock-scion interactions of normal and fruit ripening mutant *rin* and *nor* in tomato. Physiol. Plant. 35:232-235.

16. Mizrahi, Y., Dostal, H.C. and Cherry, J.H. (1976). Protein differences between fruits of *rin*, a non-ripening tomato mutant, and a normal variety. Planta 130:223-224.

17. Gur, A., Hepner, J. and Mizrahi, Y. (1976). The influence of root temperature on apple trees. I. Growth responses related to the application of potassium fertilizer. J. Hort. Sci. 51:181-193.

18. Gur, A., Mizrahi, Y. and Samish, R.M. (1976). The influence of root temperature on apple trees. II. Clonal differences in susceptibility to damage caused by supraoptimal root temperature. J. Hort. Sci. 51:195-202.

19. Mizrahi, Y., Dostal, H.C. and Cherry, J.H. (1976). Descriptive physiology and biochemistry of the abnormally ripening tomato fruit *(Lycopersicon esculentum Mill)* C.V. Snowball. Physiol. Plant. 38:309-312.

20. Bittner, S., Gorodetsky, M., Har-Paz, I., Mizrahi, Y. and Richmond, A.E. (1977). Synthesis and biological effects of aromatic analogs of abscisic acid. Phytochemistry 16:1143-1151.

21. Kopeliovitch, E., Rabinowitch, H.D., Mizrahi, Y. and Kedar, N. (1979). The potential of ripening mutants for extending shelf-life of the tomato fruit. Euphytica 28:99-104.

22. Heimer, Y.M., Mizrahi, Y. and Bachrach, U. (1979). Ornithine decarboxylase activity in rapidly proliferating plant cells. FEBS Letters 104:146-148.

23. Kopeliovitch, E., Mizrahi, Y., Rabinowitch, H.D. and Kedar, N. (1980). Physiology of the tomato mutant *alcobaca*. Plant Physiol. 48:307-311.

24. Kopeliovitch, E., Rabinowitch, H.D., Mizrahi, Y. and Kedar, N. (1980). Mode of inheritance of *alcobaca*, a tomato fruit ripening mutation. Euphytica 30:223-225.

25. Mizrahi, Y., Zohar, R. and Arad (Malis), S. (1982). Effect of NaCl on fruit ripening of the non-ripening tomato mutants *nor* and *rin*. Plant Physiol. 69:467-501.

26. Heimer, Y.M. and Mizrahi, Y. (1982). Characterization of ornithine decarboxylase of tobacco cells and tomato ovaries. Biochem. J. 201:373-376.

27. Mizrahi, Y. and Heimer, Y.M. (1982). Auxin-induced increased activity of ornithine decarboxylase in tomato ovaries. Physiol. Plant. 54:367-368.

28. Mizrahi, Y. (1982). Effect of salinity on tomato fruit ripening. Plant Physiol. 69:966- 970.

29. Kopeliovitch, E., Mizrahi, Y., Rabinowitch, H.D. and Kedar, N. (1982). Effect of the fruit-ripening mutant genes *rin* and *nor* on the flavor of tomato fruit. J. Am. Soc. HortSci. 107:361-364.

30. Cohen, E., Heimer, Y.M. and Mizrahi, Y. (1982). Ornithine decarboxylase and arginine decarboxylase activities in meristematic tissues of tomato and potato plants. Plant Physiol. 70:544-546.

31. Cohen, E., Arad (Malis), S., Heimer, Y.M. and Mizrahi, Y. (1982). Participation of ornithine decarboxylase in early stages of tomato fruit development. Plant Physiol. 70:540-543.

32. Arad (Malis), S., Didi, S., Mizrahi, Y. and Kopeliovitch, E. (1983). Pectic substances: changes in soft and firm tomato cultivars and in non-ripening mutants. J. Hort.Sci. 58:111-116.

33. Arad, (Malis), S. and Mizrahi, Y. (1983). Stress-induced ripening of the non-ripening tomato mutant *nor*. Physiol. Plant. 59:213-217.

34. Cohen, E., Arad (Malis), S., Heimer, Y.M. and Mizrahi, Y. (1983). Polyamine biosynthetic enzymes in *Chlorella*: characterization of ornithine and arginine decarboxylase. Plant Cell Physiol. 24:1003-1010.

35. Cohen, E., Arad (Malis), S., Heimer, Y.M. and Mizrahi, Y. (1984). Polyamine biosynthetic enzymes in the cell cycle of *Chlorella*.: Correlation between ODC and DNA synthesis at different light intensities. Plant Physiol. 74:383-388.

36. Teitel, D.C., Arad (Malis), S., Birnbaum, E. and Mizrahi, Y. (1984). Growth and development of tomato fruits *in vivo* and *in vitro*. Plant Growth Regulation 3:179-189.

37. Veluthambi, K., Rhee, J.K., Mizrahi, Y. and Poovaiah, B.W. (1985). Correlation between lack of receptacle growth to auxin and accumulation of a specific polypeptide in a strawberry (*Fragaria ananassa* Duch.) variant genotype. Plant & Cell Physiol. 26:317-324.

38. Raghothama, K.G., Mizrahi, Y. and Poovaiah, B.W. (1985). Effect of calmodulin antagonists on auxin induced elongation. Plant Physiol. 79:28-33.

39. Teitel, D.C., Cohen, E., Arad, S. (Malis), Birnbaum, E. and Mizrahi,Y. (1985). The possible involvement of polyamines in the development of tomato fruits *in vitro*. Plant Growth Regulation 3:309-317.

40. Mizrahi, Y. and Pasternak, D. (1985). Effect of salinity on quality of various agricultural crops. Plant and Soil. 89:301-307.

41. Teitel, D.C., Arad (Malis), S., Birnbaum, E. and Mizrahi, Y. (1986). Nitrate reductase activity in tomato fruits grown *in vivo* and *in vitro*. Plant Growth Regulation 4 :357-362.

42. Kagan-Zur, V. and Mizrahi, Y. 1987. Fruit ripening in tetraploid tomato (*Lycopersicon esculentum* Mill.). J. of Hort. Sci. 62:243-248.

43. Mizrahi, Y., Taleisnik, E., Zohar, Y., Offenbach, R., Kagan-Zur, V., Matan, E. and Golan, R. (1988). Saline irrigation regime for improving tomato fruit quality without reducing yield. J. Am. Soc. Hort. Sci. 113:202-205.

44. Nerd, A., Aronson , J.A. and Mizrahi, Y. (1990). Introduction and domestication of rare fruits and nut trees for desert areas. In: Advances in New Crops Eds. J. Janick and J.E. Simon Timber Press, Portland, Oregon, USA. pp. 355-363.

45. Nerd, A., Karady, A. and Mizrahi, Y. 1989. Irrigation, fertilization and polyethylene covers influence bud development in prickly pear. HortScience 24:773-775.

46. Mizrahi, Y., Applewhite, P.B. and Galston, A.W. 1989. Polyamine binding to proteins in oat and *Petunia* protoplasts. Plant Physiol. 91:738-743.

47. Egea-Cortines, M., Cohen, E., Arad, S. and Mizrahi, Y. (1990). Effect of difluoromethylornithine on the growth of pollinated and naphthalene acetic acid induced tomato ovaries. In: Flores, H.E. and Arteca, R.N. Eds., Polyamines and ethylene: Biosynthesis, physiology and interactions. American Society of Plant Physiologists, Rockville, MD (This is a reviewed paper). pp. 325-328.

48. Kagan-Zur, V., Mills, D. and Mizrahi., Y. (1990). Callus formation from tomato endosperm. Acta Horticulturae. 280:139-142.

49. Kagan-Zur, V., Zamir, D., Navot, N. and Mizrahi, Y. 1991: A tomato triploid hybrid whose double genome parent is the male. J. Amer. Soc. Hort. Sci. 116: (2):342-345.

50. Nerd, A., Karady, A. and Mizrahi, Y. (1991). Out-of-season prickly pear: fruit characteristics and effect of fertilization and short drought periods on productivity. HortScience. 26:527-529.

51*****. Kagan-Zur, V., Yaron-Miron, D. and Mizrahi, Y. (1991). A study of triploid tomato fruits attributes J. Amer. Soc. Hort. Sci. 116: (2):228-231.

52*****. Nerd, A., Karady, A. and Mizrahi, Y. (1991). Salt tolerance of prickly pear cactus, *Opuntia ficus-indica.* Plant and Soil. 137:201-207.

53*****. Nerd, A., Lapidot, M. amd Mizrahi, Y. (1992). White sapote (*Casimiroa edulis*); Performance under culture salinities and environmental stress

conditions in field studies. Scientia Horticulturae. 51:213-222.

54*. Kagan-Zur, V., Livne, D. and Mizrahi, Y. (1992). Analysis of effects of auxin on fruit size of tetraploid and diploid tomato fruits. J. Hort. Sci. 67(6): 817-825

55*. Egea-Cortines, M. and Mizrahi, Y. (1992). The effect of difluoromethylornithine on polyamine levels in pollinated and in auxin-induced tomato fruits. Plant Growth Regulation. 12: 287-292

56*. Egea-Cortines, M., Cohen, E., Arad (Malis), S., Bagni, N. and Mizrahi, Y. (1993). Polyamine levels in pollinated and auxin-induced fruit of the tomato (*Lycopersicon esculentum*) during development. Physiol. Plant. 87: 14-20.

57*. Nerd, A., Mesika, R. adn Mizrahi, Y. (1993). The effect of N fertilization on autumn flowering and N metabolism in prickly pear. J. Hort. Sci. 68: 337-342.

58*. Kagan-Zur, V., and Mizrahi, Y. (1993). Long shelf-life small sized (cocktail) tomatoes can be picked in bunches. Scientia Horticulturae 56: 31-41.

59*. Nerd, A., Raveh, E. and Mizrahi, Y. (1993). Adaptation of five columnar cactus species to various conditions in the Negev Desert of Israel. Econ. Bot. 43 (3): 31-41

60*. Weiss, J., Nerd, A,. and Mizrahi, Y. (1993). Vegetative parthenocarpy in the cactus pear *Opuntia ficus-indica* (L.) Mill. Annals of Botany 72: 521-526.

61*. Nerd, A., Eteshola,.E. Borowy,.N. and Mizrahi, Y. (1994). Growth and oil production of argan in the Negev Desert of Israel. Industrial Crops and Products.2: 89-95.

62*. Lapidot, M., Bar-Zvi, D., Kagan-Zur, V. and Mizrahi, Y. (1994). Identification of the double genome donor in spontaneous triploid tomato plants by RFLP analysis. Theor Appl Genet. 88: 914-916

63*. Weiss, J., Nerd, A. and Mizrahi, Y. (1994). Flowering and pollination requirements in *Cereus peruvianus* cultivated in Israel. The Israel Journal of Plant Sciences. 42: 149-158.

64*. Weiss, J., Nerd, A. and Mizrahi, Y. (1994). Flowering behavior and pollination requirements in climbing cacti with fruit crop potential. HortScience. 29: 1487-1492

65*. Nerd, A. and Mizrahi, Y. (1994). Effect of nitrogene fertilization and organ removal on rebudding in *Opuntia ficus-indica* (L.) Miller. Scientia Horticulturae. 59: 115-122.

66*****. Weiss, J., Scheinvar, L. and Mizrahi, Y. (1995). *Selenicereus megalanthus* (The yellow pitaya) . A climbing cactus from Colombia. Cactus & Succulent Journal (US).67: 280-283.

67*****. Nerd, A., and Mizrahi, Y. (1995). The effect of low winter temperature on bud break in *Opuntia ficus-indica* . Adv. Hortic. Sci. 9 (6): 188-191

68*****. Nerd, A., Dumoutier, M. and Mizrahi, Y. (1997). Properties and postharvest behavior of the vegetable cactus *Nopalea cochenillifera* . Postharvest Biology and Technology 10:135-140.

69*****. Abdi, N., Holford, P., McGlasson, W.B. and Mizrahi, Y. (1997). Ripening behaviour and responses to propylene in four cultivars of Japanese type plums. Postharvest Biology and Technology. 12(1): 21-34.

70*****. Nerd, A. Irijimovich, V. and Mizrahi, Y. (1998). Phenology, breeding system and fruit development of Argan (*Argania spinosa* [L.] Skeels) cultivated in Israel. Econ. Bot. 51(2): 161-167.

71*****. Raveh. E., Nerd, A., and Mizrahi, Y. (1998). Responses of two hemiepiphytic fruit-crop cacti to different degrees of shade. Scientia Horticulturae 73 (2,3): 151-164

72*****. Nerd, A. and Mizrahi, Y. (1998). Fruit Development and Riepening in Yellow Pitaya.
J. Amer. Soc. Hort. Sci. 123(4): 560-562.

73*****. Abdi, N., McGlasson, W. B., Holford, P., Williams, M., and Mizrahi, Y. (1998).
Responses of climacteric and suppressed-climacteric plums to treatment with 1-methylcyclopropane. Postharvest Biology and Technology 14 (1): 29-39.

74*****. Yaghmur. A., Aserin. A., Mizrahi, Y., Nerd. A., and Garti. A. (1999). Argan Oil-in-Water Emulsions- Preparation and Stabilization. J. Amer. Oil Chem. 76 (1): 15-18.

75*****. Nerd, A. and Mizrahi, Y. (1999). The effect of ripening stage on fruit quality after storage of yellow pitaya. Postharvest Biology and Technology 15: 99-105.

76*****. Tel-Zur, N., Abbo, S., Myslabodski, D. and Mizrahi, Y. (1999). Modified CTAB procedure for DNA isolation from epiphytic cacti of the genera *Hylocereus* and *Selenicereus* (Cactaceae).Plant Molecular Biology Reporter. 17: 249-254.

77*****. Guttman, F., Nerd, A., Mizrahi. Y., Bar-Zvi, D. and Rave, D. (1999). Amplification of random Amplified Polymorphic DNA Markers for Identification of marula genotypes. HortScience 34(7): 1256-1258.

78*****. Nerd. A., Guttman. F & Mizrahi. Y. (1999). Ripening and postharvest

behaviour of fruits of two *Hylocereus* species (Cactaceae). Postharvest Biology and Technology 17: 39-45.

79*****. Metz, C., Nerd, A., and Mizrahi, Y. (2000). Long-term storage of pollen of two fruit crop cacti of the genus *Hylocereus* . HortScience. 35,(1): 22-24.

80*****. Lichtenzveig, J., Abbo, S., Nerd, A., Tel-Zur, N., & Mizrahi, Y. (2000). Cytology and mating system in the climbing cacti *Hylocereus* and *Selenicereus*. Amer. J. Bot. 87(7):1058-1065.

81*****. Nerd, A. and Mizrahi. Y. (2000). Introduction of Marula, an unexploited fruit tree from Southern Africa to the Israeli Negev. Israel Journal of Plant Sciences 48(3):217-222.

82***.** Gutman, F., Bar-Zvi, D., Nerd. A., and Mizrahi. Y. (2001). Molecular typing of *Cereus peruvianus* clones and their genetic relationships with other *Cereus* species evaluated by RAPD analysis. J of Hortic. Scien. & Biotechnology 76(6): 709-713.

83***.** Wybraniec, S., Plazner, I., Geresh, S. Gotlieb, E.H., Haimberg, M., Mogilnitzki, M and Mizrahi, Y. (2001). Betacyanins from vine cactus *Hylocereus polyrhizus*. Phytochemistry 58(8): 1209-1212.

84.* Yaghmur-A; Aserin-A; Garti-N; Mizrahi-Y; Nerd-A. (2001). Evaluation of argan oil for deep-fat frying. Lebensmittel-Wissenschaft-und -Technologie. 34(3): 124-130

85*****. Nerd, A., Sitrit, Y., Kaushik, R. A. and Mizrahi, Y. (2002). High summer temperature inhibit flowering in vine pitaya crops (*Hylocereus spp.*). Scientia Horticulturae 96(1-4):343-350.

86*****. Pelah, D., Kaushik, R.A. Mizrahi, Y., and Sitrit, Y. (2002) Organogenesis in the vine
cactus *Selenicereus megalanthus* using thidiazuron. Plant Cell Tissue and Organ Culture. 71 (1): 81-84.

87*****. Wybraniec, S. and Mizrahi, Y. (2002) Fruit Flesh Betacyanin Pigments in *Hylocereus* Cacti. Journal of Agricultural and Food Chemistry. 50: 6086-6089.

88***.** Leshem, Y., Nerd, A. and Mizrahi, Y. (2003). Fruit cracking in *Cereus peruvianus*, a new cactus crop. Journal of Horticulture Science and Biotechnology. 78(3): 426-431

89***.** Pelah, D., Kaushik, R.A., Nerd, A. and Mizrahi Y. (2003). Validity of In Vitro Viability Tests for Predicting Response of Different Vine Cacti in the Field to High and Low Temperatures. Journal of the Association for Cactus Development. 5: 65-71.

90*****. Ninio, R., Lewinsohn, E., Mizrahi, Y. and Sitrit, Y. (2003). Changes in sugars, acids, and aroma volatiles during ripening of Koubo (*Cereus peruvianus* (L.) Miller. Journal of Agricultural and Food Chemistry 51:797-801.

91*****. Tel-Zur, N., Abbo, S., Bar-Zvi, D. and Mizrahi Y. (2003). Chromosome doubling in vine cacti hybrids. J of Heredity 94(4): 329-333.

92***.** Ninio, R., Lewinsohn, E., Mizrahi, Y. and Sitrit, Y. (2003). Quality attributes of stored Koubo (*Cereus peruvianus* (L.) Miller fruit. Postharvest Biology and Technology. 30:273-280.

93***.** Sitrit, Y., Loison, S., Ninio, R., Dishon, E., Bar, E., Lewinsohn, E. and Mizrahi, Y. (2003). Characterization of Monkey Orange (*Strychnos spinosa* Lam), a Potential New Crop for Arid Regions. Journal of Agriculture and Food Chemistry 51:6256-6260.

94*. Tel-Zur, N., Abbo, S., Bar-Zvi, D. and Mizrahi, Y. (2004). Clone identification and genetic relationship among vine cacti from the genera *Hylocereus* and *Selenicereus* based on RAPD analysis. Scientia Horticulturae 100: 279-284.

95*****. Mizrahi Y, Mouyal J, Nerd A, Sitrit Y (2004). Metaxenia in the Vine Cacti *Hylocereus polyrhizus* and *Selenicereus megalanthus* spp. Annals of Botany 93:469-472.

96*****. Wybraniec, S., Mizrahi, Y. (2004). Influence of perfluorinated carboxylic acids on ion-pair RP-HPLC separation of betacyanins and 15-descarboxy-betacyanins. Journal of Chromatography. 1029: 97-101.

97*. Tel-Zur, N., Abbo, S., Bar-Zvi, D. and Mizrahi, Y. (2004). Genetic Relationships Among *Hylocereus* and *Selenicereus* Vine Cacti (Cactaceae): Evidence from Hybridization and Cytological Studies. Annals of Botany 93: 329-333.

98* Tel-Zur, N., Abbo, S. and Mizrahi, Y. (2005). Cytogenetics of semi-fertile triploid and 3x- uneuploid intergeneric vine cacti hybrids. Journal of Heredity 96(2):1-8.

99* Dag, A., and Mizrahi, Y. (2005). Effect of pollination method on fruit set and fruit characteristics in the vine cacti *Selenicereus megalanthus* ("yellow pitaya"). Journal of Horticultural Science & Biotechnology. 80: 618-622.

100*****. Wybraniec, S., Mizrahi, Y. (2005). Generation of Decarboxylated and Dehydrogenated Betacyanins in Thermally Treated Purified Fruit Extract from Purpule Pitaya (*Hylocereus polyrhizus*) Monitored By LC-MS/MS. Journal of Agriculture and Food Chemistry 53(17):6704-6712.

101*. Wybraniec, S., Nowak-Wydra. B., Mizrahi, Y. (2006**).** ^{1}H and ^{13}C NMR spectroscopic structural elucidation of new decarboxylated betacyanins. Tetrahedron Letters 47: 1725-1728.

102*****. Ben-Asher, J., Nobel, P.S., Yossov, E., and Mizrah, Y. (2006). Net CO_2 uptake rates for *Hylocereus undatus* and *Selenicereus megalanthus* under field

conditions: Drought influence and a novel method for analyzing temperature dependence. Photosynthetica 44(2): 181-186.

103*****. Khaimov, A., and Mizrahi, Y. (2006). Effects of day-length, radiation, flower thinning and growth regulators on flowering of the vine cacti *Hylocereus undatus* and *Selenicereus megalanthus*. Journal of Horticultural Science & Biotechnology 81(3): 465-470.

104. Wybraniec, S., Nowak-Wydra, B., Mitka, K., Kowalski, P. & Mizrahi, Y.,2007.
Minor betalains in fruits of *Hylocereus* species. Phytochemistry 68: 251-259.

105*****. Hillman, Z., Mizrahi, Y. & Beit-Yannai, E. (2008). Evaluation of valuable nutrients in selected genotypes of Marula (*Sclerocarya birrea* ssp. *Caffra*). .). Scientia Horticulturae. 117: 321-328.

106*****. Weiss, I., Y. Mizrahi & E. Raveh. (2009). Chamber response time: a neglected issue in gas exchange measurements. Photosynthetica 47(1): 121-124. **ttp://www.springerlink.com/openurl.asp?genre=article&id=doi:10.1007/s11099-009-0018-3**

107. Weiss, I., Raveh, E & Y. Mizrahi. (2009). Effects of CO_2 - enrichment and fertilization regimes on net CO_2 uptake and growth of *Hylocereus undatus*. J. Amer. Soc. Hort. Sci. 134: 364-371.

108. Slawomir Wybraniec, Pawel Stalica, Gerold Jerz, Bettina Klose, Nadine Gebers, Peter Winterhalter, Aneta Sporna, Maciej Szaleniec & Yosef Mizrahi. (2009). Separation of polar betalain pigments from cacti fruits of *Hylocereus polyrhizus* by ion-pair high-speed countercurrent chromatography. Journal of Chromatography. 1216(41): 6890-6899.

109. Weiss, I., Y. Mizrahi, and E. Raveh. 2010. Effect of elevated CO_2 on vegetative and reproductive growth characteristics of the CAM plants *Hylocereus undatus* and *Selenicereus megalanthus*. Scientia Horticulturae- 123(4): 531-536.

*****. Since last promotion.

b. Invited papers and chapters in Books

1. Mizrahi, Y. (1980). The role of plant hormones in plant adaptation to stress conditions. In: Physiological Aspects of Crop Productivity. 15th Colloquium of the International Potash Institute, p. 75-86.

2. Mizrahi, Y. and S. (Malis) Arad (1984). Effect of salinity on the ripening process in tomato fruits. Possible role of ethylene. In: Biochemical, physiological and applied aspects of ethylene. International Symposium ISRC, 329-331. Published as "Ethylene: Biochemical, Physiological and Applied Aspects." Y. Fuchs and E. chalutz, Eds., The Hague, Martinus Nijhoff/Dr. W. Junk Publsihers, 1984, p. 329-331.

3. Mizrahi, Y. and Pasternak, D. (1985). Effect of salinity on various agricultural crops. In: Biosalinity in Action: Bioproduction with saline water. D. Pasternak and A. San-Pietro, Eds., Dordrecht, Martinus Nijhoff Publishers, p. 301-307.

4. Nerd, A., J.A. Aronson, and Y. Mizrahi. 1990. Introduction and domestication of rare and wild fruit and nut trees for desert areas. p. 355-363. In: J. Janick and J.E. Simon (eds.), Advances in new crops. Timber Press, Portland, OR. http://www.hort.purdue.edu/newcrop/proceedings1990/v1-355.html

5. Egea-Cortines, M., Cohen, E., Arad (Malis), S. and Mizrahi, Y. (1990). Influence of difluoromethylornithine on polyamine levels in pollinated and in auxin-induced tomato fruits. In: Polyamines and Ethylene: Biosynthesis, Physiology and Interactions, Flores H.E., Arteca, R.N., Shannon, J.C., American Scoiety of Plant Physiologists, Rockville, MD, pp.325-328.

6. Egea-Cortines, M. and Mizrahi, Y. (1991). Polyamines in cell division, fruit set and development and seed germination. In: Polyamines in plants. R.D. Slocum and H.E. Flores. Eds., CRC Press, Florida, Boca Raton. pp.143-158.

7*****. Nerd, A. and Mizrahi, Y. (1993). Domestication and introduction of marula (*Sclerocarya birrea* sbsp *caffra*) as a new crop for the Negev Desert of Israel. In: New Crops, J. Janick and J.E. Simon, Eds. Wiley Press ,pp 496-499. http://www.hort.purdue.edu/newcrop/proceedings1993/v2-496.html

8*****. Raveh, E., Weiss, J., Nerd, A. and Mizrahi, Y. (1993). Pitayas (Genus *Hylocereus*) new fruit crop for the Negev Desert of Israel. In: New Crops, J. Janick and J.E. Simon, Eds. Wiley Press, pp 491-495. http://www.hort.purdue.edu/newcrop/proceedings1993/v2-491.html

9*****. Weiss, J., Nerd, A. and Mizrahi, Y. (1993). Development of the apple cactus (*Cereus peruvianus*) as a new crop to the Negev Desert of Israel. In: New Crops, J. Janick and J.E. Simon, Eds. Wiley Press, pp 486-491. http://www.hort.purdue.edu/newcrop/proceedings1993/v2-486.html

10*. Nerd, A.; Mizrahi, Y. (1995). Reproductive biology of the cactus pear *opuntia ficus indica*. In: G. Barbera. P. Inglese and E. Pimienta-Barrios (eds.), Agroecology, Cultivation and Uses of Cactus Pear *Opuntia* sp., FAO. pp 67-77

11*. Mizrahi, Y. and Nerd, A. (1996). New crops as a possible solution to the troubled Israeli export market. In: J. Janick and J.E. Simon (eds). Progress in New Crops: Proceedings of the Third National New Crops Symposium. American Society of Horticultural Sciences. . pp. 56-64. http://www.hort.purdue.edu/newcrop/proceedings1996/v3-037.html

12* Raveh, E., Nerd, A., Mizrahi, Y. 1996. Responses of climbing cacti to different levels of shade and to carbon dioxide enrichment. Acta Horticultureae. 434: 271-278

13*. Mizrahi, Y., Nerd, A. and Nobel, P.S. (1997). Cacti as crops. Horticultural Review. 18: 291-320.

14*. Nerd, A. and Mizrahi, Y. (1997). Reproductive biology of cactus fruit crops. Horticultural Review. 18: 321-346.

15*. Mizrahi, Y. and Nerd, A. (1999). Climbing and Columnar Cacti New Arid lands Fruit Crops. In: Prespective in New crops and New Crops Uses. Janick, J. Ed. ASHS Press, Alexandria, VA. pp. 358-366. http://www.hort.purdue.edu/newcrop/proceedings1999/v4-358.html

16*. Mizrahi, Y., & Nerd. A. (1999). Usage of various cactus species as fruit and vegetable crops in Israel. Memoria, VIII National Congress and VI International Congress on Usages of Nopal.. Juan Rogelio Aguirre Rivera and Juan Antonio Reyes Aguero Eds. San Luis Potosi, S.L.P. Mexico. pp 240-254.

17*. Nerd, A., Afflalo, E. and Mizrahi, Y. (2001). Introduction of cacti as vegetable crops for Israel. In: Combating Desertification with Plants. D. Pasternak and A. Schlissel (Eds). Kluwer Accademic/Plenum Publishers, New York. pp 249-255.

18*. Nerd, A., Tel-Zur, N. and Mizrahi , Y. (2002). Fruit of Vine and Columnar Cacti. (Chapter 12) In: Nobel, P. S.(Ed) Cacti: Biology and Uses. UCLA. pp-185-197. x

19*. Mizrahi, Y., Nerd, A., and Sitrit, Y. (2002). New fruits for arid climates. In: Trends in New Crops and New Uses. Janick, J. and Whipkey Anna. (Eds). ASHS Press, Alexandria VA. pp. 378-384. http://www.hort.purdue.edu/newcrop/ncnu02/v5-378.html

20*. Mizrahi, E. Raveh, E. Yossov, A. Nerd and J. Ben-Asher 2007. New fruit crops with high water use efficiency. In: J. Janick, & Anna Whipkey editors. Creating Markets for Economic Development of New Crops and New Uses, The proceedings of the sixth National New Crops Symposium.). ASHS Press, Alexandria VA. pp. 216-222. http://www.hort.purdue.edu/newcrop/ncnu07/pdfs/mizrahi216-222.pdf

21*. Ben-Asher, J. Mizrahi, Y. & Nobel, P.S. (2009). Transpiration, Stem

Conductance and CO_2 Exchange of *Hylocereus undatus* (A. Pitahaya). Proc. VIth IC on Cactus and Cochineal. Acta Hort. 811, ISHS. Pp 375- 381.