

References

- Abbott, J.A. 1999. Quality measurement of fruits and vegetables. Postharvest Biol. Technol. 15: 207-225.
- Abu-Sarra, A.F. and A.A. Abu-Goukh. 1992. Changes in pectinesterase, polygalacturonase and cellulose activity during mango fruit ripening. HortScience 67: 561-568.
- Abdi, N., W.B. McGlasson, P. Holford, M. Williams and Y. Mizrahi. 1998. Responses of climacteric and suppressed-climacteric plums to treatment with propylene and 1-methylcyclopropene. Postharvest Biol. Technol. 14: 29-39.
- Akamine, E.K. and T. Goo. 1973. Respiration and ethylene production during ontogeny of fruit. J.Amer.Soc.Hort.Sci. 98: 381-383.
- Ali, Z.M., S. Armugam and H. Lazan. 1995. β -Galactosidase and its significance in ripening mango fruit. Phytochem. 38:1109-1114.
- Ali, Z.M., L.H. Chin and H. Lazan. 2004. A comparative study on wall degrading enzymes, pectin modifications and softening during ripening of selected tropical fruits. Plant Sci. 167: 317-327.
- Andkard, K. 2004. Control of ripening in mango fruits cv. Mahajanaka during storage with 1-methylcyclopropene. M.S. Thesis. Postharvest Technology Program, Graduate School. Chiang Mai University, Chiang Mai. 132 p. (In Thai)
- Anon. 2008a. "Mango: Cluster Mapping Database" [Online] Available: <http://cm.nesdb.go.th/detail-cluster-60.asp>? Cluster D=C0015 (14 July 2008) (In Thai)
- Anon. 2008b. "Mango: Goods Situation of Produces and Products" [Online] Available: <http://www.dft.moc.go.th/the-files> (5 August 2008) (In Thai)
- Anon. 2003. "Mango Cultivars" [Online] Available: <http://www.horticultureworld.net/cultivars.htm> (15 March 2003)
- AOAC. 2002. Official Method of Analysis. Association of Official Analytical Chemists. George Banta Co.Inc., Washington D C.
- Askar, A. and H. Treptow. 1993. Quality Assurance in Tropical Fruit Processing. Springer-Verlag. Berlin Heidelberg. 238 p.

- Auerswald, H., P. Peters, B. Bruckner and A. Krumbein. 1999. Sensory analysis and instrumental measurements of short-term stored tomatoes (*Lycopersicon esculentum* Mill.). Postharvest Biol. Technol. 15: 323-334.
- Baker, I.W. 1984. Mango maturity investigations. Proc. the First Australian Mango Workshop. pp. 271-273.
- Bartolome, A.P., P. Ruperez and C. Fuster. 1996. Changes in soluble sugars of two pineapple fruit cultivar during frozen storage. Food Chem. 56: 163-166.
- Bassetto, E., A.P. Jacomino , A.L. Pinheiro and R.A. Kluge. 2005. Delay of ripening of 'Pedro Sato' guava with 1-methylcyclopropene. Postharvest Biol. Technol. 35: 303-308.
- Benitez, M.M. 2004. Effects of heat treatment on softening and anthracnose resistance in mango fruit cv. Nam DoK Mai. M.S. Thesis. Postharvest Technology Program, School of Bioresources and Technology. King Mongkut's University of Technology Thonburi. Bangkok. 110 p.
- Biale, J.B. and R.E. Young. 1981. Respiration and ripening in fruits-retrospect and prospect, pp. 1-39. In J. Friend and M.J.C. Rhodes (eds.). Recent Advances in Biochemistry of Fruit and Vegetables. Academic Press, New York.
- Blankenship, S.M. and J.M. Dole. 2003. 1-Methylcyclopropene : A review. Postharvest Biol. Technol. 28: 1-25.
- Boonchoo, T., W. Kongtanajarusakul, C. Wongs-Aree, V. Srilaong and S. Kanlayanarat. 2004. Storage characteristics of 'Nam Dokmai' mango pretreated with 1-MCP vapour. Proc APEC Sym. Quality Management in Postharvest Systems. Bangkok, Thailand. pp. 191-194.
- Boonyakiat, D. and N. Rattanapanone. 2006. Postharvest Technology of Fruit and Vegetable. O.S. Printing House. Bangkok. 236 p. (In Thai)
- Bradford, M.M. 1976. A Rapid and Sensitive Method for Quantification of Microgram Quantities of Protein Utilizing the Principle of Protein-dye Binding. Analytical Biochemistry. Pp. 248-254.
- Brinson, K. , P.M. Dey , M.A. John and J.B. Pridham. 1988. Postharvest changes in *Mangifera indica* mesocarp cell walls and cytoplasmic polysaccharides. Phytochem. 27: 719-723.
- Burg, S.P. and A.E. Burg. 1962. Role of ethylene in fruit ripening. Plant Physiol. 37: 179-189.

- Chaimanee, P. 2003. "Exo-polygalacturonase from ripe mango (*Mangifera indica* Linn cv. Nam Dok Mai)." [Online] Available: <http://www.google.co.th/search?q=cache:RuC3iUdMCIsC> (21 October 2003)
- Chaimanee, P., N. Lertwikoon, L. Bungaruang and O. Suntornwat. 2003. "Exo-polygalacturonase from ripe mango (*Mangifera indica* Linn cv. Nam Dok Mai)." [Online] Available: <http://www.google.co.th/search?q=cache:RuC3iUdMCIsC> (21 October 2003)
- Chaplin, G.R., S.C. Lai and M.J. Buckley. 1990. Differential softening and physico-chemical changes in the mesocarp of ripening mango fruit. *Acta Hort.* 269: 169-179.
- Castro, S.M., A.V. Loey, J.A. Saraiva, C. Smout and M. Hendrickx. 2005. "Identification of pressure/temperature combinations for optimal pepper (*Capsicum annuum*) pectin methylesterase activity". [Online] Available: www.sciencedirect.com (20 June 2005)
- Cua, A.U. and M.C.C. Lizada. 1990. Ethylene production in the 'Carabao' mango (*Mangifera indica* L.) fruit during maturation and ripening. *Acta Hort.* 26: 169-179.
- DeEll, J.R., S. Khanizadeh, F. Saad and D.C. Feree. 2001. Factors affecting apple fruit firmness: A review. *J. Am. Pomol. Soc.* 55: 8-27.
- De Melo Silva, S. , E.C. dos Santos , A.F. dos Santos , I.R.B.S. Silveira and R.M.N. Mendonca. 2004. Influence of 1-methylcyclopropene on postharvest conservation of exotic mango cultivars. *Acta Hort* 645: 565-572.
- De Morais, P.L.D. and J.S. de Assis. 2004. Quality and conservation of mango cv. 'Tommy Atkins' as affected by maturity stage and storage temperature. *Acta Hort.* 645: 639-643.
- De Oliveira Lima, L.C., A.B. Chitarra and M.I.F. Chitarra. 2001. Changes in amylase activity starch and sugars contents in mango fruits pulp cv. Tommy Atkins with spongy tissue. *Brazilian Biol. Technol.* 44: 59-62.
- Del Mundo, C.R., M.C.C. Lizada, D.B. Mendoza Jr., N.L. Garcia. 1984. Indices for harvest maturity in 'Carabao' mangoes. *Postharvest Research Notes* 1: 13-14.
- Department of Agriculture. 2006. "Mango." [Online] Available: http://www.doa.go.th/pl_data/02_LOCAL/oard4/mango_indus/main.html (13 December 2006).
- Dong, L., S. Uriel and H.W. Zhou. 2002. Effect of 1-methylcyclopropene on ripening of 'Canino' apricots and 'Royal Zee' plums. *Postharvest Biol. Technol.* 24: 135-145.

- Dong, L., H. Zhou, L. Sonogo, A. Lers and S. Lurie. 2001. Ethylene involvement in the cold storage disorder of 'Flavortop' nectarine. *Postharvest Biol. Technol.* 23: 105-115.
- Dongkhum, S. and S. Kanlayanarat. 2003. Effects of simulated transport temperatures on fruit quality and shelf life of 'Nam Dok Mai' mango (*Mangifera indica* L.) Division of Postharvest Technology, School of Bioresources and Technology. King Mongkut's University of Technology Thonburi. Bangkok.
- Dos Santos, A.F. , S. de Melo Silva , R.M.N. Mendonca, R.E. Alves and L.P. Martins. 2004. Storage of mango fruits cv. Rosa treated with calcium chloride after harvest at different maturity stages. *Acta Hort.* 645: 663-670.
- Dinora, M.J., J. de La. Cruz, K.L. Parkin and H.S. Garcia. 1996. Effect of controlled atmosphere containing low O₂ and CO₂ on chilling susceptibility of 'manila' mangoes. *Acta Hort.* 455: 635-642.
- Dubery, I.A., L.V. van Rensburg and J.C. Schabart. 1984. Malic enzyme activity and related biochemical aspects during ripening of irradiated mango fruit. *Phytochem.* 23: 1383-1386.
- Ekman, J.H., M. Clayton, W.V. Biasi and E.J. Mitcham. 2004. Interactions between 1-MCP concentration, treatment interval and storage time for 'Bartlett' pears. *Postharvest Biol. Technol.* 31: 127-136.
- Evangelista, R.M., A.B.Chitarra and M.I.F. Chitarra. 2003. "Influence of the application pre-harvest of the calcium in the polygalacturonase, pectinmethyl esterase and β-galactosidase activity and texture of the mangoes 'Tommy Atkins' stored under refrigeration." [Online] Available: <http://www.editora.ufla.br/revista/suple-2000/art16.htm>. (20 May 2003).
- Fan, X. and J.P. Mattheis. 1999a. Impact of 1-methylcyclopropene and methyl jasmonate on apple volatile production. *J. Agric.Food Chem.* 47: 2847-2853.
- Fan, X. and J.P. Mattheis. 1999b. Methyl jasmonate promotes apple fruit degreening independently of ethylene action. *HortScience* 34: 310-312.
- Fan, X., L. Argenta and J.P. Mattheis. 2000. Inhibition of ethylene action by 1-methylcyclopropene prolongs storage life apricots. *Postharvest Biol. Technol.* 20: 135-142.

- Fan, X., S.M. Blankenship and J.P. Mattheis. 1999a. 1-Methylcyclopropene inhibits apple ripening. *J.Amer.Soc.Hort.Sci.* 124: 690-695.
- Fan, X., J.P. Mattheis and S.M. Blankenship. 1999b. Development of apple superficial scald, soft scald, core flush and greasiness in reduced by 1-MCP. *J. Agric.Food Chem.* 47: 3063-3068.
- Feng, X., A. Apelbaum, E.C. Sisler and R. Goren. 2000. Control of ethylene responses in avocado fruit with 1-methylcyclopropene. *Postharvest Biol. Technol.* 20: 143-150.
- Fuchs, Y., E. Pesis and G. Zauberman. 1980. Changes in amylase activity, starch and sugar contents in mango fruit pulp. *Scientia Hortic.* 13: 155-160.
- Golding, J.B., D. Shearer, S.G. Wyllie and W.B. McGlasson. 1998. Application of 1-MCP and propylene to identify ethylene-dependent ripening processes in mature banana fruit. *Postharvest Biol. Technol.* 14: 87-98.
- Gong, Y., X. Fan and J.P. Mattheis. 2002. Responses of 'Bing' and 'Rainier' sweet cherries to ethylene and 1-methylcyclopropene. *J.Amer.Soc.Hort.Sci.* 127: 831-835.
- Greenfield, H., G.I. Hutchison, J. Arcot and R.B.H. Wills. 1993. Laboratory Instruction Manual for Food Composition Studies. Dept. of Food Science and Technology, Uni. of New South Wales. 81 p.
- Gross, J. 1987. Pigments in Fruits. Academic Press Inc., London. 304 p.
- Hagerman, A.E. and P.J. Austin. 1986. Continuous spectrophotometric assay for plant pectin methylesterase. *J. Agric Food Chem.* 34: 440-444.
- Harris, D.R., J.A. Seberry, R.B.H. Wills and L.J. Spohr. 2000. Effect of fruit maturity on efficiency of 1-methylcyclopropene to delay the ripening of banana. *Postharvest Biol. Technol.* 20: 303-308.
- Hershkovitz, V., S.I. Saguy and E. Pesis. 2005. Postharvest application of 1-MCP to improve the quality of various avocado cultivars. *Postharvest Biol. Technol.* 37: 252-264.
- Hiscox, J.D. and G.F. Israelstam. 1979. A method for the extraction of chlorophyll from leaf tissue without maceration. *Can. J. Bot.* 57: 1332-1334.

- Hodge, J.E. and B.T. Hofreiter. 1962. Determination of Reducing Sugar and Carbohydrate : Methods in Carbohydrate Chemistry. Academic Press, New York. pp. 380-394.
- Hofman, p.J., M. Jobin-Décor, G.F. Meiburg, A.J. Macnish and D.C. Joyce. 2001. Ripening and quality responses of avocado, custard apple, mango and papaya fruit to 1-methylcyclopropene. Aust.J.Exp.Agric. 41: 567-572.
- Homdork, R., L. Rujanakraikarn and P. Wiriyacharee. 2006. Changes in physical and chemical characteristics of ripening mango (*Mangifera indica* L) cv. Kaew and Choke anan. File://G\29-Changes in Physical.doc.htm (7 August 2006). (Abstract)
- Huber, D.J. 1983. The role of cell-wall hydrolysis in fruit softening, p. 619. In J. Janick. Horticulturel Review. AVI Publishing, Westport, Connecticut.
- Huber, D.J., Y. Karakurt and J. Jeong. 2001. Pectin degradation in ripening and wounded fruits. R. Bras. Fisiol. Veg. 13: 224-241.
- Jansasithorn, R., C. Wongs-Aree, V. Srilaong and S. Kanlayanarat. 2005a. Low O₂ effects on quality of mango (*Mangifera indica* cv. Namdokmai) at chilling temperature. Proc APEC Sym. Assuring Quality and Safety of Fresh Produce. Bangkok, Thailand. pp. 233-236.
- Jansasithorn, R., C. Wongs-Aree, V. Srilaong and S. Kanlayanarat. 2005b. High CO₂ effects on quality of mango (*Mangifera indica* cv. Namdokmai) at chilling temperature. Proc APEC Sym. Assuring Quality and Safety of Fresh Produce. Bangkok, Thailand. pp. 229-232.
- Jeong, J., D.J. Huber and S.A. Sargent. 2002. Influence of 1-methylcyclopropene (1-MCP) on ripening and cell-wall matrix polysaccharides of avocado (*Persea americana*) fruit. Postharvest Biol. Technol. 25: 241-364.
- Jiang, Y., and D.C. Joyce. 2002. 1-Methylcyclopropene treatment effects on intact and fresh-cut apple. J. Hort.Sci Biotech. 77: 19-21.
- Jiang, Y., D.C. Joyce and A.J. Macnish. 1999. Extension of the shelf life of banana fruit by 1-methylcyclopropene in combination with polyethylene bags. Postharvest Biol. Technol. 16: 187-193.
- Jiang, Y., D.C. Joyce and L.A. Terry. 2001. 1-Methylcyclopropene treatment affects strawberry fruit decay. Postharvest Biol. Technol. 23: 227-232.

- Jiang, W., Q. Sheng, X. Zhou, M. Zhang, and X. Lui. 2002. Regulation to coriander senescence by 1-methylcyclopropene and ethylene. *Postharvest Biol. Technol.* 26: 339-345.
- Kader, A.A. 2003. Fruit maturity, ripening and quality relationships. pp. 3-7. In M. Reed (ed.). *Management of Fruit Ripening*. Postharvest Technology Research and Information Center. UCDAVIS.
- Kader, A.A. and A. Mitcham. 2003. Optimum procedure for ripening mangoes. pp. 47-48. In M. Reed (ed.). *Management of Fruit Ripening*. Postharvest Technology Research and Information Center. UCDAVIS.
- Kapur, K.L., R.A. Verma and M.P. Tripathi. 1985. The effect of maturity and processing on quality of pulp slices. *Indian Food Packer* 39: 60-67.
- Katawatcharakul, W. 2000. Effects of heat treatment on chilling in Nang Klangwan mango fruits. M.S. Thesis. Postharvest Technology Program, School of Bioresources and Technology. King Mongkut's University of Technology Thonburi. Bangkok. 95 p.
- Ketsa ,S, S, Rattanamalee and C. Babprasert. 1991. Growth development, biochemical changes and harvesting index of mango (*Mangifera indica* L) cv. Tongdum. *Kasetsart J.* 25: 391-399.
- Khalafalla, M.S and D.A. Palzkill. 1990. Seasonal patterns of carbohydrates and proline in jojoba clones that differ in frost susceptibility. *HortScience* 25: 103-105.
- Kluge, R.A. and A.P. Jacomino. 2002. Shelf life of peaches treated with 1-methylcyclopropene. *Scientia-Agricola* 59: 69-72.
- Kosiyachinda, S., S.K. Lee and Poernomo. 1984. Maturity indices for harvesting of mango, pp. 33-34. In D.B. Mendoza Jr and R.B.H. Wills (eds.). *Mango: Fruit Development, Postharvest Physiology and Marketing in ASEAN*. ASEAN Food Handling Bureau, Bangsar, Kuala Lumpur.
- Kosiyachinda, S. and D.B. Mendoza Jr. 1984. Harvesting of mango: Marketing and handling practices, pp. 80-83. In D.B. Mendoza Jr and R.B.H. Wills (eds.). *Mango: Fruit Development, Postharvest Physiology and Marketing in ASEAN*. ASEAN Food Handling Bureau, Bangsar, Kuala Lumpur.
- Krishnamurthy, S. and H. Subramanyam. 1973. Pre- and postharvest physiology of the mango

- fruit. *Tropical Sci.* 15: 167-193.
- Ku, V.V.V. and R.B.H. Wills. 1999. Effect of 1-methylcyclopropene on the storage life of broccoli. *Postharvest Biol. Technol.* 17: 127-132.
- Ku, V.V.V., R.B.H. Wills and S. Ben-Yehoshua. 1999. 1-Methylcyclopropene can differentially affect the postharvest life of strawberries exposed to ethylene. *HortScience* 34: 119-120.
- Kumar, S., D.K. Das, A.K. Singh and U.S. Prasad. 1993. Changes in non-volatile organic acid composition and pH during maturation and ripening of two mango cultivars. *Indian Plant Physiol.* 36: 107-111.
- Kumar, S., D.K. Das, A.K. Singh and U.S. Prasad. 1994. Sucrose metabolism during maturation and ripening of mango cultivars. *Plant Physiol. Biochem.* 21: 27-32.
- Kumar, R. and Y. Selvaraj. 1990. Fructose-1,6-biphosphatase in ripening mango (*Mangifera indica* L.) fruit. *Indian Expt. Biol.* 28: 284-287.
- Kusumo, S.L., V. Vangnai, S.K. Yong and L.O. Numuco. 1984. Commercial mango cultivars in ASEAN mango, pp. 12-20. In D.B. Mendoza Jr and R.B.H. Wills (eds.). *Mango: Fruit Development, Postharvest Physiology and Marketing in ASEAN*. ASEAN Food Handling Bureau, Bangsar, Kuala Lumpur.
- Labib, A.A.S., F.A. El-Aswah, H.T. Omran and A. Askar. 1995. Heat-inactivation of mango pectinesterase and polygalacturonase. *Food Chem.* 53: 137-142
- Lakshminarayana, S. 1973. Respiration and ripening patterns in the life cycle of the mango fruit. *HortScience* 48: 227-233.
- Lakshminarayana, S. 1975. Relation of time of harvest on respiration, chemical constituents and storage life of mangoes. *Proc. the Florida State Horticultural Society* 88: 477-480.
- Lakshminarayana, S. 1980. Mango, pp. 184-257. In S. Nagy and P.E. Shaw (eds.). *Tropical and Subtropical Fruits*. AVI Publishing Co., Westport, Connecticut.
- Lam, P.F., D. Omar and Y. Talib. 1982. Physical, physiological and chemical changes of 'Golek' mango after harvest. *Proc. Workshop on Mango and Rambutan, ASEAN Postharvest Training College*, Laguna, Philippines. pp. 96-112.
- Lazan, H. and Z.M. Ali. 1993. Cell wall hydrolyses and their potential in the manipulation of ripening of tropical fruit. *ASEAN Food* 8: 47-53.

- Lazan, H., Z.M. Ali., J.S. Soh and Z. Talkah. 1993. The biochemical basis of differential ripening of mango. *Acta Hort.* 341: 500-511.
- Lazan, H., Z.M. Ali and H.A. Sani. 1990. Effect of vaporgard on polygalacturonase, malic enzyme and ripening of mango. *Acta Hort.* 269: 359-366.
- Lazan, H., Z.M. Ali, K.W. Lee, J. Voon and G.R. Chaplin. 1986. The potential role of polygalacturonase in pectin degradation and softening of mango fruit. *ASEAN Food* 2: 93-98.
- Le Roux, P. 1996. Enzymatic analysis, pp. 343-364. In G. Linden. Analytical Techniques for Foods and Agricultural Products. VCH Publishers, Inc. New York.
- Lizada, M.C.C. 1991. Postharvest physiology of the mango: A review. *Acta Hort.* 291: 411-412.
- Lizada, M.C.C. 1993. Mango. pp. 255-271. In M.G.B. Seymour , J.E. Taylor and M.G.A. Tucker (eds.). Biochemistry of Fruit Ripening. Chapman & Hall, New York.
- Lurie, S., C. Pre-Aymard, U. Ravid, O. Larkov and E. Fallik. 2002. Effect of 1-methylcyclopropene on volatile emission and aroma in Anna apples. *J.Aric.Food Chem.* 50: 4251-4256.
- Mao, L., G. Wang and F. Que. 2005. "Application of 1-methylcyclopropene prior to cutting reduces wound responses and maintains quality in cut kiwifruit". [Online]. Available: www.sciencedirect.com (20 June 2005).
- Mattheis, J.P. and J.K. Fellman. 1999. Preharvest factors influencing flavor of fresh fruit and vegetables. *Postharvest Biol. Technol.* 15: 227-232.
- McGuire, R.G. 1992. Reporting of objective color measurement. *HortScience* 27: 1254-1255.
- Medlicott, A.P. 1985. Mango Fruit Ripening and the Effects of Maturity, Temperature and Gases. PhD Thesis. The PolyTechnic, Wolverhampton (CNNA).
- Medlicott, A.P. and A.K. Thompson. 1985. Analysis of sugars and organic acids in ripening mango fruit (*Mangifera indica* var. Keitt) by high temperature liquid chromatography. *J. Sci. Food Agric.* 36: 561-566.
- Medlicott, A.P. , M. Bhogal and S.B. Reynolds. 1986. Changes in peel pigmentation during ripening of mango fruit (*Mangifera indica* var. Tommy Atkins). *Appli. Biol.* 109: 651-656.

- Mendoza Jr, D.B. and R.B.H. Wills. 1984. Mango: Fruit development. Postharvest Physiology and Marketing in ASEAN Food Handling Bureau, Kuala Lumpur, Malaysia. 111 p.
- Menniti, A.M., R. Gregori and I. Donati. 2004. 1-Methylcyclopropene retards postharvest softening of plums. *Postharvest Biol. Technol.* 31: 269-275.
- Miller, A.R., J.P. Dalmaso and D.W. Kretchman. 1987. Mechanical stress, storage time and temperature influence cell wall-degrading enzymes, firmness and ethylene production by cucumbers. *J. Amer. Soc. Hort. Sci.* 112: 666-671.
- Mir, N. and R. Beaudry. 2002. Atmosphere control using oxygen and carbon dioxide, pp. 122-156. In M. Knee (ed.). *Fruit Quality ans its Biological Basis*. Sheffield Academic Press. Sheffield.
- Mir, N., E. Curell, N. Khan, M. Whitaker and R. Beaudry. 2001. Harvest maturity, storage temperature and 1-MCP application frequency alter firmness retention and chlorophyll fluorescence of 'Redcheif Delicious' apples. *J. Am. Soc. Hort. Sci.* 126: 618-624.
- Mitcham, E.J. and R.E. McDonald. 1992. Cell wall modification during ripening of 'Keitt' and 'Tommy Atkins' mango fruit. *J.Am.Soc.Hort.Sci.* 117: 919-924.
- Mitra, S.K. and E.A. Baldwin. 1997. Mango. p. 85-122. In S.K. Mitra (ed.). *Postharvest Physiology and Storage of Tropical and Subtropical Fruits*. CAB International, New York.
- Morga, N.S., A.O. Lustre, M.M. Tunac, A.H. Balogot and M.R. Soriano. 1979. Physicochemical changes in Philippine Caraboa mangoes during ripening. *Food Chem.* 4: 225-234.
- Nakano, R., S. Inoue, Y. Kubo and A. Inaba. 2002. Water stress-induced ethylene in the calyx triggers autocatalytic ethylene production and fruit softening in 'Tonewase' persimmon grown in a heated plastic-house. *Postharvest Biol. Technol.* 25: 293-300.
- Nakasone, H.Y. and R.E. Paull. 1998. *Tropical Fruits*. CAB International, Wallingford. New York. 445 p.
- Naohara, J. and M. Manabe. 1994. Molecular mass and solubility changes in pectin during storage of satsuma mandarin fruits (*Citrus unshiu* Marc.). *J. Food Sci.* 59: 578-580.
- Parikh, H.R. , G.M. Nair and V.V. Modi. 1990. Some structural changes during ripening of mangoes (*Mangifera indica* L. var. Alphonso) by abscissic acid treatment. *Ann. Bot.* 65: 121-127.

- Peacock, B.C. and B.I. Brown. 1984. Quality comparison of several mango varieties. Proc. the First Australian Mango Workshop. pp. 271-273.
- Peiser, G.D. and S.F. Yang. 1977. Chlorophyll destruction by bisulphite oxygen system. Plant Physiol. 60: 277-281.
- Pelayo, C., E.V. de B. Vilas-Boas, M. Benichou and A.A. Kader. 2003. Variability in responses of partially ripe bananas to 1-methylcyclopropene. Postharvest Biol. Technol. 28: 75-85.
- Pesis, E., M. Ackerman, R. Ben-Aire, O. Feygenberg, X. Feng, A. Apelbaum, R. Goren and D. Prusky. 2002. Ethylene involvement in chilling injury symptoms of avocado during cold storage. Postharvest Biol. Technol. 24: 171-181.
- Pimpimol, J. and Y. Khamsee. 2001. Changes of postharvest physiology, physical properties and chemical components on different maturity stage of mangoes (*Mangifera indica* L) cv. Kaew. Final report submitted to National Research Council of Thailand. 53 p. (In Thai)
- Porat, R., B. Wesis, L. Cohen, A. Daus, R. Goren and S. Droby. 1999. Effects of ethylene and 1-methylcyclopropene on the postharvest qualities of 'Shamouti' oranges. Postharvest Biol. Technol. 15: 155-163.
- Porat, R., X. Feng, M. Huberman, D. Galili, R. Goren, E.E. Goldschmidt and X.Q. Feng. 2001. Gibberellic acid slows postharvest degreening of 'Oroblanco' citrus fruit. HortScience 36: 937-940.
- Prasanna, V., T.N. Prabha and R.N. Tharanathan. 2006. Multiple forms of polygalacturonase from mango (*Mangifera indica* L. cv. Alphonso) fruit. Food Chem. 95: 30-36.
- Pre-Aymard, C., E. Fallik, A. Weksler and S. Lurie. 2005. Sensory analysis and instrumental measurements of 'Anna' apples treated with 1-methylcyclopropene. Postharvest Biol. Technol. 36: 135-142.
- Ranganna, S. 1986. Plant pigments, pp. 72-93. In S. Ranganna (ed.). Manual of Fruit and Vegetable Products. Tata McGraw-Hill Publishing Co. Ltd., New Delhi.
- Rattanapanone, N., R. Attabhanyo, R. Pattanachan, P. Kanjanabut and N. Daengsuwan. 2004. Biochemical changes during ripening of mangofruit and frozen storage of mango flesh cv. Maha-Chanok and Chok-Anan. Final report submitted to the Thailand Research Fund. (Abstract)

Roe, B. and J.H. Bruemmer. 1981. Changes in pectic substances and enzymes during ripening and storage of 'Keitt' mangoes. *J. Food Sci Technol.* 46: 186-189.

Rupasinghe, H.P.V., D.P. Murr, G. Paliyath and L. Skog. 2000. Inhibitory effect of 1-MCP on ripening and superficial scald development in 'McIntosh' and 'Delicious' apples. *J. Hort.Sci.Biotech.* 75: 271-276.

Sadler, G.D. and P.A. Murphy. 1998. PH and titratable acidity, pp.111. *In* S.S. Nielsen (ed.). *Food Analysis*, 2nd ed. An Aspen Publication, Inc. Galthersburg, Maryland.

Salunkhe, D.K. and B.B. Desai. 1984. Mango, pp. 77-94. *In* D.K Salunkhe and B.B. Desai (eds.). *Postharvest Biotechnology of Fruits*, Vol. 1. CRC Press, Boca Raton, Florida.

Sauvageot, F. 1996. Sensory evaluation, pp. 403-494. *In* G. Linden. *Analytical Techniques for Foods and Agricultural Products*. VCH Publishers, Inc. New York.

Selvarajah, S., A.D. Bauchot and P. John. 2001. Internal browning in cold-stored pineapples is suppressed by a postharvest application of 1-methylcyclopropene. *Postharvest Biol. Technol.* 23: 167-170.

Selvaraj, Y. and R. Kumar. 1989. Studies on fruit softening enzyme and polyphenoloxidase activity in ripening mango (*Mangifera indica* L.) fruit. *J. Food Sci. Technol.* 26: 218-222.

Selvaraj, Y. and R. Kumar. 1994. Enzymatic regulaton in ripening mango fruit. *Indian Hortic.* 51: 316-323.

Serek, M., E.C. Sisler and M.S. Reid. 1995. 1-Methylcyclopropene, a novel gaseous inhibitor of ethylene action, improves the life of fruits, cut flowers and potted plants. *Acta Hort* 394: 337-345.

Seymour, G.B., M. N'Diaye, H. Wainwright and G.A. Tucker. 1990. Effect of cultivar and harvest maturity on ripening of mangoes during storage. *HortScience* 65: 479-483.

Shewfelt, R.L. 1999. What is quality?. *Postharvest Biol. Technol.* 15: 197-200.

Serek, M., E.C. Sisler and M.S. Reid. 1995. 1-Methylcyclopropene, a novel gaseous inhibitor of ethylene action, improves the life of fruits, cut flowers and potted plants. *Acta Hort.* 394: 337-345.

- Singkaew, R., C. Wongs-Aree, V. Srilaong, S. Photchanachai and S. Kanlayanarat. 2004. Storage of 'Nam Dokmai' mango under High CO₂ and Low O₂ partial pressures. Proc. APEC Sym. Management in Postharvest Systems. Bangkok, Thailand. pp. 179-182.
- Sisler, E.C. and M. Serek. 1997. Inhibitors of ethylene responses in plants at the receptor level-recent developments. *Physiol. Plant.* 100: 577-582.
- Sisler, E.C., M. Serek and E. Dupille. 1996. Comparison of cyclopropene, 1-methylcyclopropene and 3,3-dimethylcyclopropene as ethylene antagonists in plants. *Plant Growth Regul.* 18: 164-174.
- Sisler, E.C., M. Serek, K.A. Roh and R. Goren. 2001. The effect of the chemical structure on the antagonism by cyclopropene of ethylene responses in banana. *Plant Growth Regul.* 33: 107-110.
- Subremanyam, H., S. Gowri and S. Krishnamurthy. 1976. Ripening behavior of mango fruits graded on specific gravity basis. *J. Food Sci. Technol.* 13: 84 – 86.
- Tandon, D.K. and S.K. Kalra . 1984. Pectin changes during the development of mango fruit cv. Dashehari. *HortScience* 59: 283-286.
- Tian, M.S., S. Prakash, H.J. Elgar, H. Young, D.M. Burmeister and G.S. Ross. 2000. Responses of strawberry fruit to 1-methylcyclopropene (1-MCP) and ethylene. *Plant Growth Regul.* 32: 83-90.
- Tridjaja, N.O. and M.S. Mahendra. 2000. Maturity indices and harvesting practice of 'Arumanis' mango related to the target market. *ACIAR Proc.* 100: 1128-132.
- Trinchero, M.G.D., M.G.O. Sozzi, F. Convatta and A.A. Fraschina. 2004. Inhibition of ethylene action by 1-methylcyclopropene extends postharvest life of "Bartlett" pears. *Postharvest Biol. Technol.* 32: 193-204.
- Tucker, G.A. 1993. Introduction, pp.1-51. In G.B. Seymour , J.E. Taylor and G.A. Tucker (eds.). *Biochemistry of Fruit Ripening*. Chapman & Hall, London.
- Tucker, G.A. and G.B. Seymour. 1991. Cell wall degradation during the ripening of mango fruit. *Acta Hort.* 29: 454-460.
- Van Lelyveld, L.J. and J.H.E. Smith. 1979. Physiological factors in the maturation and ripening of mango (*Mangifera indica* L.) fruit in relation to the jelly seed physiological disorder. *HortScience* 54: 283-287.

- Vazquez-Salinas, C. and S. Lakshminarayana. 1985. Compositional changes in mango fruit during ripening at different storage temperature. *J. Food Sci.* 50: 1464-1648.
- Thai mango cultivars and their suitability for industrial applications. *Acta Hort.* 645: 617-625.
- Vasquez-Caicedo, A.L., S. Neidhart, P. Pathomrungsiyounggul, P. Wiriyacharee, A. Chattrakul, P. Srumsiri, P. Manochai, F. Bangerth and R. Carl. 2002. Physical, chemical and sensory properties of nine Thai mango cultivars and evaluation of their technology and nutritional potential. International Symposium Sustaining Food and Managing Natural Resources in Southeast Asia, Challenges for the 21st Century. January 8-11, 2002. Chiang Mai, Thailand. 13 p.
- Watada, A.E. and L. Qi. 1999. Quality of fresh-cut produce. *Postharvest Biol. Technol.* 15: 201-205. Watkins, C. B. 2002. Ethylene synthesis, mode of action, consequences and control, pp. 180-224. In M. Knee (ed.). *Fruit Quality and its Biological Basis*. Sheffield Academic Press. Sheffield.
- Watkins, C.B., J.F. Nock and B.D. Whitakher. 2000. Responses of early, mid and late season apple cultivars to postharvest applicationof 1-methylcyclopropene (1-MCP) under air and controlled atmosphere storage conditions. *Postharvest Biol.Tecnol.* 19: 17-32.
- Wills, R.B.H. and V.V.V. Ku. 2002. Use of 1-MCP to extend the time to ripen of green tomatoes and postharvest life of ripe tomatoes. *Postharvest Biol. Technol.* 26: 85-90.
- Wimonwat, W., W. Niyomloa and S. Kalayanarat. 2005. Effect of controlled atmosphere on quality and storage life of 'Chok Anan' mango. Proc APEC Sym. Assuring Quality and Safety of Fresh Produce. Bangkok, Thailand. pp. 217-223.
- Witham, F.H., D.F. Blaydes and R.M. Devlin. 1986. Exercises in Plant Physiology, 2nd ed. Prindle, Weber & Schmidt, Boston. 324 p.

- Yingsanga, P. and S. Kanlayanarat. 2004. Superatmosphere effects on quality of mango (*Mangifera indica* cv. Namdokmai). Proc APEC Sym. Quality Management in Postharvest Systems. Bangkok, Thailand. pp. 263-265.
- Yoshida, O., H. Nakagawa, N. Ogura and T. Sato. 1984. Effect of heat treatment on development of polygalacturonase activity in tomato fruit during ripening. Plant Cell Physiol. 25: 505-509.
- Zora, S., and J. Janes. 2001. Effect of postharvest application of ethephon on fruit ripening, quality and shelf life of mango under modified atmosphere packaging. Acta Hort. 553: 599-601.