## **Bibliography**

- Abeles FB and Takeda F (1990) Cellulase activity and ethylene in ripening strawberry and apple fruit. Sci. Hortic. 42: 269-275
- Abu-Goukh A-B and Bashir HA (2003) Changes in pectic enzymes and cellulase activity during guava fruit ripening. Food Chem. 83: 213–218
- Ackermann FM and Amado R (1992) Changes in sugars, acids, and amino acids during ripening and storage of apples (Cv.Glockenapfel). J. Agri and Food Chem. 40:1131-1134
- Ahmed AER and Labavitch JM (1980). Cell wall metabolism in ripening fruit. II. Changes in carbohydrate-degrading enzymes in ripening 'Bartlett' pears. Plant Physiol. 65: 451-454
- Ahvenainen R (1996) New approaches in improving shelf life of minimally processed fruit and vegetables. Trends in Food Science and Tech. 7: 179 -187
- Aina JO and Oladunjoye OO (1993) Respiration, pectolytic activity and textural changes in ripening African mango (*Irvingia gabonensis*) fruits. J. Sci. Food and Agri. 63: 451-454
- Alexander L and Grierson D (2002) Ethylene biosynthesis and action in tomato: a model for climacteric fruit ripening. J. Exp. Bot. 53(377): 2039- 2055
- Ali MZ, Chin L-H, Marimuthu M and Lazan H (2004) Low temperature storage and modified atmosphere packaging of carambola fruit and their effect on ripening related texture changes, wall modification and chilling injury symptoms. Postharvest Biol. and Technol. 33(2): 181–192
- Almeida DPF and Huber DJ (1999) Apoplastic pH and inorganic ion levels in tomato fruit: a potential means for regulation of cell wall metabolism during ripening. Physiol. Plant 105: 506–512
- Arenas-O ML, Evangelista-L S, Arana-Errasquin R, Jimenez-Aparicio AR and Davila-Ortiz AG (2003) Softening and biochemical changes of sapote mamey fruit (*Pouteria sapota*) at different development and ripening stages. J. Food. Biochem. 27: 91-107
- Ariel RV, Montserra S, Jocelyn KCR and Labavitch JM (2007) The linkage between cell wall metabolism and fruit softening: looking to the future. J. Sci. Food and Agri. 87:1435–1448
- Ariffin AA, Bakar J, Tan CP, Rahman RA, Karim R and Loi CC (2008) Essential fatty acids of pitaya (dragon fruit) seed oil. Food Chem. 114: 561-564
- Armando C-L P, Andrea S C-H N, Alfonso C R-T, Fidel G-L and Octavia P-L P (2002) Hydrolytic activity and ultrastructural changes in fruit skins from two prickly pear (*Opuntia* sp.) varieties during storage. J. Agric. Food Chem. 50: 1681-1685

- Babic I and Watada AE (1996) Microbial populations of fresh-cut spinash leaves affected by controlled atmospheres. Postharvest Biol. Technol. 9:187-193
- Barbera G, Carimi F and Inglese P (1992) Past and present role of the Indian-fig prickly pear (*Opuntia ficus-indica* (L.) Miller, Cactaceae) in the agriculture of Sicily. Econ. Bot 46 (1): 10-20
- Barka EA, Kalantari S, Makhlouf J and Arul J (2000) Impact of UV-C irradiation on cell wall-degrading enzymes during ripening of tomato (*Lycopersicon esculentum* L.) fruit. J. Agric. Food Chem. 48: 667-671.
- Balerdi and Crane (2005) Horticultural Sciences Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. Gainesville, 32611
- Barras F, van Gijsegem F and Chatterjee AK (1994) Extracellular enzymes and soft-rot Erwinia. Ann. Rev. Phytopathol. 32: 201-234
- Barrett DM and Gonzalez C (1994) Activity of softening enzymes during cherry maturation. J. Food Sci. 59: 574–577
- Barthlott W and Hunt DR (1993) Cactaceae. In : Kubitzki K, Rohwer J G and Bittrich V (eds). The families and genera of vascular plants. Vol 2, Springer Verlag, Berlin Germany pp 161 -197.
- Batu A (1994) Properties of modified atmosphere packaging films and application of fruits and vegetables. GIDA. 19 (6): 397-403
- Beaudry RM, Cameron AC, Shirazi A, Lange DD (1992) Modified atmosphere packaging of blueberry fruit: effect of temperature on package oxygen and carbon dioxide. J. Am. Soc. Hortic. 117 : 431–436.
- Belitz HD and Grosch W (1987) Amino acids, peptides, proteins. Food Chemistry. Berlin: Springer-Verlag, pp. 607–610.
- Bermudez J S, Redodonodo N J, Blanco JM, Cabalerro J L, Aranda JML, Valpuesta V, Alfaro PA, Quesada MA and Mercado JA (2002) Manipulation of strawberry fruit softening by antisense expression of pectate lyase gene. Plant Physiol. 128: 751-775
- Besford RT and Hobson GE (1972) Pectic enzymes associated with softening of tomato fruit. Phytochem. 11: 2201- 2205.
- Blanco D, Moran MJ, Gutierrez MD, Moreno J and Dapena E (1992) Biochemical study of the ripening of cider apple varieties. Zeitschrift für Lebensmitte -Untersuchung und -Forschung. 194: 33–37.
- Bradford MM (1976) A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principles of protein-dye binding. Anal. Biochem. 72: 248-254

Brady CJ (1987) Fruit ripening. Annu. Rev. Plant Physiology. 38: 155-172

- Brecht J K, Chau K V, Fonseca S C, Oliveira F AR, Silva F M, Nunes M C N, Bender RJ(2003) Maintaining optimal atmosphere conditions for fruits and vegetables throughout the postharvest handling chain. Postharvest Biology and Technology 27: 87-101
- Brew BS, Berry AS, Sargent SA, Chaw NL and Cantliffe DJ (2006) Determination of optimum storage conditions for 'baby' summer squash fruit (*Cucurbita Pepo*). Proc. Fla. State. Hort. Soc. 119: 343-346
- Britton NL and Rose JN (1963) Descriptions and illustrations of plants of the cactus family, Vol. I and II. Dover Publ. Inc. New York, USA, pp. 183–195.
- Bron IU and Jacomino AP (2006) Ripening and quality of 'Golden' papaya fruit harvested at different maturity stages. Brazil J. Plant Physiol. 18 (3): 389-396
- Brown BI (1986) Temperature management and chilling injury in tropical and subtropical fruits. Symposium on physiology and productivity of subtropical and tropical tree fruits. Acta Hort. 175:339-342.
- Brownleader MD, Jackson P, Mobasheri A, Pantelides AT, Sumar S, Trevan M and Dey PM (1999) Molecular aspects of cell wall modifications during fruit ripening. Crit. Rev. Food Sci. Nutr. 39: 149–164.
- Brummell DA (2006) Cell wall disassembly in ripening fruit. Func. Plant Biol. 33: 103-119
- Brummel DA and Harpster MH (2001) Cell wall metabolism in fruit softening and quality and its manipulation in transgenic plants. Plant Mol Biol 47:311-340
- Brummell DA and Labavitch JM (1997) Effect of antisense suppression of endopolygalacturonase activity on polyuronides molecular weight in ripening tomato fruit and fruit homogenates. Plant Physiol. 115: 717-725
- Burdon JN and Sexton R (1993) Fruit abscission and ethylene production of four blackberry cultivars (*Rubus sp*). Ann. Appl. Biol. 123: 121-132
- Cameron AC, Beaudry RM, Banks NH and Yelanich MV (1993) Modified atmosphere packaging of blueberry fruit- modelling respiration and package oxygen partial pressure as a function of temperature. J. American Society of Hort. Sci. 119: 534-539
- Cantwell MA and Suslow TV (2002) Postharvest handling systems: fresh-cut fruits and vegetables. In: Kader, A.A. (Ed.), Postharvest Technology of Horticultural Crops, third ed. Univ. Calif. Agric. Natural Res. Publ. 3311, Oakland, CA, pp 445–463
- Cantwell M (1995) Postharvest management of fruits and vegetable stems. In: Barbera G, Inglese P, Pimienta-Barrios E (Eds.), Agro-Ecology, Cultivation and Uses of Cactus Pear. FAO, Rome, Italy, pp. 120–137.
- Carol AP (1996) Review: Modified atmosphere packaging and its effect on the microbiology quality and safety of produce. Int. J Food Sci. and Technol. 31:463-479

- Carpita NC and Gibeaut DM (1993) Structural models of primary cell walls in flowering plants; consistency of molecular structure with physical properties of the cell walls during growth. The Plant Journal. 3: 1-30
- Catherine NC (2002) Microbial Control by Packaging: A Review. Crit Rev in Food Sci. and Nutrition. 42(2):151–161
- Chandran Somasundram.(1998) Physiological and biochemical changes during ripening and storage of Mas Bananas. University of Malaya. MSc theses.
- Chang FR and Yen CR (1997) Flowering and fruit growth of pitaya (*Hylocereus undatus* Britt. & Rose) J. Chinese Soc. Hort. Sci. 43(4):314–21.
- Clydesdale, F. M. (1993). Color as a factor in food choice. Crit. Rev in Food Sci. and Nutrition. 33(1): 83-101.
- Cordenunsi BR, MI, Nascimento JRO'd, Hassimotto NMA, Santos RJ'd, Lajolo FM (2005) Effects of temperature on the chemical composition and antioxidant activity of three strawberry cultivars. Food Chem. 91:113–121,
- Crisosto, C.H., Mitchell, F.G., and Johnson, S. 1995. Factors in fresh market stone fruit quality. Postharvest News and Info. 6(2):17-21.
- Crisosto CH, Crisosto GM and Ritenour MA (1994) Testing the reliability of skin colour as an indicator of quality for early season 'Brooks' (*Prunus aviun* L.) cherry. Postharvest Biol. Technol. 24: 147–154.
- Dolenc SK, Stampar F and Usenik V (1999) Evaluating of some quality parameters of different apricot cultivars using HPLC method. Acta alimentaria, 28(4): 297–309.
- Dong WK, Tae SK, Young JK and Jae KL (1992) Adsorption kinetics and behaviour of cellulase components on microcrystalline cellulose. J Fermen and Bioengin.. 73 (6): 461-466
- Draye M, Van Cutsem P (2008) Pectin methylesterases induce an abrupt increase of acidic pectin during strawberry fruit ripening. J. Plant Physiol. 165: 1152-1160
- Duru B and Turker N (2005) Changes in physical properties and chemical composition of cactus pear (*Opuntia ficus-indica*) during maturation. J. PACD. 7: 22-33
- Dubois M, Gilles KA, Hamilton JK, Rebers PA and Smith F (1956) Calorimetric method for determination of sugars and related substances. Anal. Chem. 28: 350-356
- El-Zoghbi M (1994) Biochemical changes in some tropical fruits during ripening. Food chem. 49: 33-37
- Esquivel P, Stintzing FC and Carle R (2007) Pigment pattern and expression of colour in fruits from different *Hylocereus* sp genotypes. Inno. Food Sci. and Emerging Tech. 8: 451-457

- Exama A, Arul J, Lencki RW, Lee LZ, Toupin C (1993) Suitability of plastic films for modified atmosphere packaging of fruits and vegetables. J.Food Sci. 58 : 1365– 1370
- Ferrarese L, Trainotti L, Moretto P, Polverino de Laureto p, Rascio N and Casadoro G (1995) Differential ethylene –inducible expression of cellulase in pepper plants. Plant Mol. Biol. 29: 735-747
- Fisher R L and Bennett A B (1991) Role of cell wall hydrolases in fruit ripening. Ann. Rev. Plant Physiol. and Plant Mol. Biol. 42: 675-703
- Fonseca SC, Oliveira FAR, Brecht J K (2002) Modelling respiration rate of fresh fruits and vegetables for modified atmosphere packages: a review. J. Food Engin. 52 : 99–119
- Forni G, Polesello A, Montefiori D and Maestrelli A (1992) High-performance liquid chromatographic analysis of the pigments of blood-red prickly pear (*Opuntia ficus indica*).J. Chromatogr. 593: 177–183
- Gaffe J, Tieman DM and Handa AK (1994) Pectin methylesterase isoforms in tomato (*Lycopersicon esculentum*) tissues. Effect of expression of a pectin methylesterase antisense gene. Plant Physiol. 105:199 203
- Giovannoni J (2004) Genetic regulation of fruit development and ripening. Plant Cell 16: S170–S180
- Giovannoni JJ, DellaPenna D, Bennett A and Fischer R (1991) Polygalacturonase and tomato fruit ripening. Hort. Rev 13: 67-103
- Goulao LF and Oliveira CM (2008) Cell wall modifications during fruit ripening: when a fruit is not the fruit. Trends in Food Sci. and Technol. 19:4-25
- Goulao LF, Santos J, Sousa ID and Oliveira MC (2007) Patterns of enzymatic activity of cell wall-modifying enzymes during growth and ripening of apples. Postharvest Biol. and Technol. 43: 307-318
- Graeme AK and Erin MO (1995). Unravelling senescence: New opportunities for delaying the inevitable in harvested fruit and vegetables. Trends in Food Sci. and Technol. 6 : 385-389
- Gray J, Picton S, Shabbeer J, Schuch W and Grierson D (1992) Molecular biology of fruit ripening and its manipulation with antisense genes. Plant Mol. Biol. 19: 69-87
- Greengrass J (1993) Films for MAP of foods. *In*: Principles and applications of modified atmosphere packaging of food. Glasgow, UK: Blackie. pp 63 -100
- Gross K C and Sams C E (1984) Changes in cell wall neutral sugars composition during fruit ripening: A species survey. Phytochem. 23:2457-2461
- Gurrieri, S., Micelli, L., Lanza, C.M., Tomaselli, F., Bonomo, R.P., Rizzarelli, E. (2000) Chemical characterization of Sicilian prickly pear (Opuntia ficus indica) and perspectives for the storage of its juice. J. Agric. Food and Chem. 48: 5424-5431

- Hagerman AE and Austin PJ (1986) Continuous spectrophotometric assay for plant pectin methylesterase. J Agric Food Chem. 34: 440–444.
- Harker FR, Redgwell RJ, Hallet IC and Murray SH (1997) Texture of fresh fruit. Horti. Rev. 20: 121-224
- Harker FR and Sutherland PW (1993) Physiological changes associated with fruit ripening and the development of mealy texture during storage of nectarines. Postharvest Biol. Technol. 2: 269–277
- Harpster MH, Brummell DA, Dunsmuir P (2002a) Suppression of a ripening-related endo-1,4-ß-glucanase in transgenic pepper fruit does not prevent depolymerisation of cell wall polysaccharides during ripening. Plant Mol. Biol. 50: 345–355.
- Harpster MH, Dawson DM, Nevins DJ, Dunsmuir P, Brummell DA (2002b) Constitutive over expression of a ripening-related pepper endo-1,4-ß-glucanase in transgenic tomato fruit does not increase xyloglucan depolymerisation or fruit softening. Plant Mol. Biol. 50: 357–369.
- Hayama H, Shimada T, Haji T, Ito A, Kashimura Y and Yoshioka H (2000). Molecular cloning of a ripening-related expansin cDNA in peach: evidence for no relationship between expansin accumulation and change in fruit firmness during storage. J. Plant Physiol. 157: 567- 573.
- Holcroft DM and Kader AA (1999) Controlled atmosphere induced changes in pH and organic acid metabolism may affect colour of stored strawberry fruit. Postharv. Biotechnol. 17: 19-32.
- Huber DJ (1983) The Role of Cell Wall Hydrolases in Fruit Softening (Texture Changes/ Food quality) Horti. Rev. 5: 169-219
- Imsabai W, Ketso S and van Doorn WG (2002) Effect of temperature on softening and the activities of polygalacturonase and pectinerase in Durian fruits; Postharvest Biol technol. 26: 347 351
- Ishimaru M and Kobayashi S (2002) Expression of a xyloglucan endo-transglycosylase gene is closely related to grape berry softening, Plant Sci. 162 (4): 621–628.
- Jackman RL and Stanley DW (1995) Perspectives in the textural evaluation of plant foods. Trends in Food Sci. and Technol. 6: 187-194
- Jacobs D (1999) Pitaya, *Hylocereus undatus*, a potential new crop for Australia, Rare Fruit Counc. Aust. Inc. Newsl. 107: 3–7.
- Jayani RS, Saxena S and Gupta Reena (2005) Microbial pectinolytic enzymes: A review. Proc. Biochem.40 (2005) 2931–2944
- Jobling J. (2001). Modified atmosphere packaging: Not as simple as it seems. Sydney Postharvest laboratory Information sheet: Good fruit and vegetables Magazine 11 (5).

- Johnston JW, Hewett EW and Hertog MLATM (2002) Postharvest softening of apple (*Malus domestica*) fruit: a review. New Zealand J. of Crop and Horti. Sci. 30:145-160
- Kader AA (2002) Postharvest biology and technology: an overview. In: Kader A.A. (Ed.), Postharvest Technology of Horticultural Crops. Regents of the University of California, Division of Agricultural and Natural Resources, Oakland, CA, pp. 39–48
- Kader AA and Ben-Yehoshua S (2000) Review Effects of superatmospheric oxygen levels on postharvest physiology and quality of fresh fruits and vegetables. Postharvest Biol. and Technol. 20: 1–13
- Kader A A and Watkins CB (2000) Modified atmosphere packaging- toward 2000 and beyond. Hortechnol. 10(3)
- Kader AA (1999) Fruit maturity, ripening and quality relationships. Acta Horti. 485: 203–208.
- Kader AA (1995) Regulation of fruit physiology by controlled/modified atmospheres. Acta Hort. 398: 59–70.
- Kader AA (1992) Postharvest biology and technology: an overview. In: Kader, A.A. (Ed.). Postharvest technology of horticultural crops. University of California, Davis, p.15-201.
- Kader AA, Zagory D and Kerbel EL (1989) Modified atmosphere packaging of fruits and vegetables.CRC Crit. Rev. Food Sci. Nutri 28: 1-30
- Kanellis AK, Solomos T and Roubelakis- Angelakis KA (1991) Suppression of cellulase and polygalacturonase and induction of alcohol dehydrogenase isoenzymes in avocado fruit mesocarp subjected to low oxygen stress. Plant Physiol. 96: 269-274.
- Kays S (1999) Preharvest factors affecting appearance. Postharvest Biol. Technol. 15: 233-247.
- Ke D, Rodriguez-Sinobas L and Kader A A (1991) Physiology and Prediction of Fruit Tolerance to Low-oxygen Atmosphere. J. Amer. Soc. Hort. Sci. 116 (2): 253-260
- Knee M (1978) Properties of polygalacturonate and cell cohesion in apple fruit cortical tissue. Phytochem. 17: 1257-1260
- Kuti JO (1992) Growth and compositional changes during the development of prickly pear fruit. J. Horti. Sci. 67(6):861-868
- Lakshminarayana S, Sosa LA and Perez FB (1979) the development and postharvest physiology of the fruit of prickly pear (*Opuntia amyclaea tenore*). Trop. Foods 1: 69-93
- Langley KR, Martin A, Stenning R, Murray AJ, Hobson GE, Schuch WW and Bird CR (1994) Mechanical and optical assessment of the ripening of tomato fruit with reduced polygalacturonase activity. J. Sci. of Food and Agric. 66: 547–554

- Lazan H, Ng S-Y, Goh L-Y, Ali ZM (2004) Papaya [beta]-galactosidase/galactanase isoforms in differential cell wall hydrolysis and fruit softening during ripening. Plant Physiol. and Biochem. 42: 847-853
- Lazan H, Selamat MK and Ali ZM (1995) Galactosidase, polygalacturonase and pectinesterase in differential softening and cell wall modification during papaya fruit ripening. Plant Physiol. 95:106–112.
- Lee SK and Kader, AA (2000) Preharvest and postharvest factors influencing vitamin C content of horticultural crops. Postharvest Biol and Technol 20: 207–220
- Le FB, Vaillant F and Imbert E (2006) Pitahaya (*Hylocereus* spp.): a new fruit crop, a market with a future. Fruits. 61 (4): 237 248.
- Le VT, Nguyen N, Nguyen DD and Ha TTH (2002) Dragon fruit quality and storage life: effect of harvesting time, use of plant growth regulators and modified atmosphere packaging, Acta Hortic. 575: 611–621.
- Le VT, Nguyen N, Nguyen DD, Dang KT, Nguyen TNC, Dang MVH, Chau NH and Trink NL (2000) Quality assurance system for dragon fruit. ACIAR Proceedings 100:101-114.
- Lelievre JM, Latche A, Jones B, Bouzayen M and Pech JC (1997) Ethylene and fruit ripening. Physiol. Plantarum 101: 727-739.
- Lichtenzveig J, Abbo S, Nerd A, Tel-Zur N and Mizrahi Y (2000) Cytology and mating systems in the climbing cacti *Hylocereus* and *Selenicereus*. Amer. J. Bot. 87(7): 1058-1065
- Liu X, Liao M-a, Deng G-t, Chen S-b and Ren Y-j (2008) Changes in Activity of PG, PE, Cx and LOX in Pulp during Fruit Growth and Development of Two Different Ripening-Season Pear Cultivars. American-Eurasian J. Agric. and Environ. Sci. 3 (3): 445-450, 2008
- Lohani S, Trivedi PK and Nath P (2004) Changes in activities of cell wall hydrolases during ethylene-induced ripening in banana: effect of 1-MCP, ABA and IAA. Postharvest Biol. and Technol. 31:119-126.
- Maclachan G and Brady C (1994) Endo -1, 4-βglucanse, xyloglucanase and xyloglucan endo transglycosylase activities versus potential substrate in ripening tomatoes. Australian J. Plant Physiol. 19: 965-974
- MacRae E and Redgwell RJ (1992) Softening of kiwifruit.Postharvest News and Info. 3: 49-52
- Manganaris G A, Vasilakakis M, Diamantidis G and Mignani I (2006) Diverse metabolism of cell-wall components of melting and non-melting peach genotypes during ripening after harvest or cold storage. J. Sci. of Food and Agric. 86: 243-250.
- Marin-Rodriguez MC, Orchard J, Seymour GB (2002) Pectate lyases, cell wall degradation and fruit softening. J. Exp. Bot. 53: 2115-2119

- Marsh K, Attanayake S, Walker S, Gunson A, Boldingh H and MacRae E (2004) Acidity and taste in kiwifruit. Postharvest Biol. and Technol. 32: 159-168
- McGuire RG (1992) Reporting of objective colour measurements. Hort Sci. 27(12):1254-1255.
- Merten S (2004) A review of *Hylocereus* production in the United States. Yearbook . West Aust. Nut and Tree Crops Ass. 27:20-29
- Micheli F (2001) Pectin methylesterases: cell wall enzymes with important roles in plant physiology. Trends in Plant Sci. 6: 414-419
- Miller GL (1951) Use of dinitro salicyclic acid reagent for determination of reducing sugar. Anal Chem. 31:426-428
- Mizrahi Y and Nerd A (1999) Climbing and columnar cacti: New Arid land fruit crops. In : Janick J (ed) Perspective on new crops and new uses. ASHS Press. American Society of Horticultural Science, Alexandria, Virginia pp. 358-366
- Mizrahi Y, Nerd A and Nobel PS (1997) Cacti as a crop. Horti. Rev. 18: 291-320
- Mobhammer MR, Stintzing FC and Carle R (2006) Cactus Pear Fruits (*Opuntia spp.*): A Review of Processing Technologies and Current Uses. J PACD.
- Moran F, Nasuno S and Starr M P (1968) Extracellular and intercellular polygalacturonic acid trans-eliminase of *Erwinia carotovor*. Arch. of Biochem. and Biophysics. 123 : 298-306
- Moretti CL and Sargent SA (2002) Fresh cut growth in Brazil. Fresh cut. 10: 24-29
- Nair H, Tung HF, Wan MW, Rosli M, Ahmad HS and Chang KK (1992) Low oxygen effect and storage Mas banana (Musa, Aa group). Acta Hort. 292(21):209-215.
- Nerd A, Sitrit Y, Kaushik RA and Mizrahi Y (2002) High summer temperatures inhibit flowering in vine pitaya crops (*Hylocereus* spp.). Sci. Hortic. 96 : 343–350.
- Nerd A, Gutman F and Mizrahi Y (1999) Ripening and postharvest behaviour of fruits of two *Hylocereus* species (Cactaceae). Postharvest Biol. Technol. 17: 39-45
- Nerd A and Mizrahi Y (1998) Fruit development and ripening in yellow pitaya..J. Amer. Soc. Hort. Sci. 123:560-562
- Nerd A and Mizrahi Y (1997) Reproductive biology of cactus fruit crops. Hort. Rev. 18:321-346
- Newton KG and Rigg WJ. 1979. The effect of film permeability on the storage life and microbiology of vacuum-packed meat. J. App. Bacteriol. 41: 433-441
- Nguyen MC (2007) Present scenario, market trends of the tropical and subtropical fruit industry in Vietnam, TFNet report.

- Nobel PS, Barrera E De La, Beilman DW, Doherty J H and Zutta B R (2002) Temperature limitations for cultivation of edible cacti in California. Madrono 49: 228–236
- Norziah MH, Ruri AS, Tang CS and Fazilah A (2008) Utilitsation of red pitaya (*Hylocereus polyrhizus*) fruit peels for value added food ingredients. International conference on Environ. Research and Technology.
- Nunan KJ, Davies C, Robinson SP and Fincher GB (2001) Expression patterns of cell wall modifying enzymes grape berry development. Planta. 214: 257-264
- Onecimo G-J, Teresa T, Armando G-V, Manuel C-V and Juan Francisco P-M (2007) Morphometric Analysis of 21 Pitahaya (*Hylocereus undatus*) Genotypes J. PACD
- Pathak N and Sanwal G G (1998) Multiple forms of polygalacturonase from banana fruits. Phytochem. 48 (2):249-255
- Payasi A and Sanwal GG (2003) Pectate lyase activity during ripening of banana fruit. Phytochem. 63(3): 243–248.
- Pedreno MA and Escribano J (2001) Correlation between antiradical activity and stability of betanine from *Beta vulgaris* L. roots under different pH, temperature and light conditions. J. Sci. of Food and Agric. 81 (7): 627–631
- Percival Zhang YH, Himmel ME, Mielenz JR (2006) Outlook for cellulase improvement: Screening and selection strategies. Biotechnol. Adv. 24 :452–481
- Perez K, Mercado J and Valdez H S (2004) Effect of storage temperature on shelf life of Hass avocado (*Persea Americana*). Food Sci.Tec.Int.10: 73-77
- Perez-Tello G, Silva-Espinoza BA, Vargas-Arispuro I, Briceno-Torres BO and Martinez-Tellez MA (2001) Effect of temperature on enzymatic and physiological factors related to chilling injury in carambola fruit (*Averrhoa carambola* L.). Biochem. and Biophysical Research Com. 287:846-851.
- Prabha T N, Yashoda H M, Prasanna V, Jagadeesh B H and Bimba JMV (2000) Carbohydrate metabolism in relation to textural softening during fruit ripening. Trends in Carbohydrate Chem. 6: 89-95
- Prasanna V, Prabha TN and Tharanathan RN (2007) Fruit Ripening Phenomena—An Overview. Crit. Rev. in Food Sci. and Nutrition. 47(1): 1-19
- Pushpakumara DKNG, Gunasena HPM and Kariayawasam M (2005) Flowering and fruiting phenology, pollination vectors and breeding system of dragon fruit (*Hylocereus* spp.) Sri Lankan J. Agric. Sci. 42: 81-91
- Reddy NR, Amstrong DJ, Rhodehamel EJ and Kauter DA (1992) Shelf-life extension and safety concerns about fresh fishery products packaged under modified atmospheres: a review. J. Food Saf. 12: 87–118

Reid MS (2002) Maturation and maturity index, In: Kader, A.A. (ed.). pp. 55-62.

- Rodriguez-Felix A (2002) Postharvest physiology and technology of cactus pear fruits and cactus leaves. Acta Hort.( Proc.4<sup>th</sup> IC on Cactus Pear and Cochineal), 581: 191-199
- Roe B and Bruemmer J H (1981) Changes in pectic substances and enzymes during ripening and storage of 'Keitt' mangos. J. Food Sci. 46: 186-189.
- Rose J. Catala C. Gonzalez-Carranza Z. Roberts J (2003) Cell wall disassembly. *In* J. K. C. Rose [ed.], The plant cell wall. Ann. Plant Rev. 8: 265-324 CRC Press, Boca Raton, Florida, USA.
- Rosli HG, Civello PM and Martinez GA (2004) Changes in cell wall composition of three *Fragaria*×*ananassa* cultivars with different softening rate during ripening Plant Physiol. Biochem. 42: 823–831
- Roura SI, Davidovich LA and Valle CE (2000) Quality loss in minimally processed Swiss chard related to amount of damaged area. Lebensmittel Wissenschaft Technol. 33:53–59
- Sakai T, Sakamoto T, Hallaert J and Vandamme E.J (1993) Pectin, pectinase and protopectinase: Production, properties and application. Adv. In App. Microbiol. 39:213–294.
- Sethu K M P, Prabha T N and Tharanathan R N (1996) Postharvest biochemical changes associated with the softening phenomenon in Capsicum *annuum* fruits. Phytochem. 42(4): 961–966
- Seymour GB, Manning K, Eriksson EM, Popovich AH, King GJ (2002) Genetic identification and genomic organization of factors affecting fruit texture. J. Exp. Bot. 53: 2065-2071.
- Seymour GB and Gross KC (1996) Cell wall disassembly and fruit softening. Postharvest News and Info. 7: 45-52
- Shackel KA, Greve C, Labavitch JM and Ahmadi H (1991) Cell turgor changes associated with ripening in tomato pericarp tissues. Plant Physiol. 97: 814-816
- Siddiqui S, Brackmann A, Streif J and Bangerth F (1996). Controlled atmosphere storage of apples: cell wall composition and fruit softening. J. Horti. Sci.. 71: 613-620.
- Sirisomboon P, Tanaka M, Fujitha S and Kojima T (2000) Relationship between the texture and pectin constituents of Japanese pear. J. Texture Studies. 31:679–690
- Soliva-Fortuny R C, Oms-Oliu G and Martin-Belloso O (2002). Effects of ripeness stages on the storage atmosphere, color, and textural properties of minimally processed apple slices. J. Food Sci. 67:1958–1963.

Somogyi M (1952) Notes on Sugar Determination. J. Biol.Chem.195: 19-23

- Somogyi M (1945) A new reagent for the determination of sugars. J Biol Chem. 160: 61-68
- Speirs J and Brady C J (1991) Modification of gene expression in ripening fruit. Australian J. Plant Physiol 18: 519–532.

- Stintzing F C, Schieber A and Carle R (2002) Betacyanins in fruits from red purple pitaya, *Hylocereus polyrhizus* (Weber) Britton & Rose. Food Chem. 77: 101–106
- Sturm K, Koron D and Stampar F (2003) The composition of fruit of different strawberry varieties depending on maturity stage. Food Chem. 83(3): 417–422
- Tano K, Oule M K, Doyon G, Lencki R W and Arul J (2007) Comparative evaluation of the effect of storage temperature fluctuation on modified atmosphere packages of selected fruit and vegetables. Postharvest Biol and Technol 46: 212–221
- Talia H N-P, Armando C-L P, Fidel, G-L, Anders C-H N and Octavia P-L P (2005) Biochemical and nutritional characterization of three prickly pear species with different ripening behaviour. Plant Foods for Human Nutrition. 60: 195–200.
- Teixiera GHDA, Durigan JF, Lima MA, Alves RE and Filgueira HAC (2005) Postharvest changes and respiratory pattern of bacuri fruit (*Platonia insignis* Mart.) at different maturity stages during ambient storage. Acta. Amazonica. 35(1): 17 21
- Tembo L, Chiteka Z A, Kadzere I, Akinnifesi F R and Tagwira Z (2008) Storage temperature effects fruit quality attributes of Ber (*Ziziphus mauritiana* Lamk.) in Zimbabwe. Afr. J. Biotechnol. 7(8): 3092-3099
- Thompson AK (2003) Fruit ripening conditions. In: Thompson, A.K (ed.). Fruits and Vegetables, Harvesting, Handling and Storage. Blackwell Publishing. Oxford, UK. pp. 86-96
- Tijskens L and van Dijk C (2000) Enzyme activity and firmness in tomatoes. In: Florkowski, W. et al. (eds.). Fruit and vegetable quality: an integrated view. Lancaster: Technomic Publishing INC. p. 73-80
- Trainotti L, Ferrarese L, Vecchia FD, Rascio NG (1999) Two different endo- $\beta$ -1, 4-glucanases contributes to the softening of the strawberry fruits. J. Plant Physiol. 154(33):355-362
- Tucker GA (1996) Introduction. In: Seymour, G.B., Taylor, J.E., Tucker, G.A. (Eds.), Biochemistry of Fruit Ripening. Chapman & Hall, London, pp. 1–51
- Uchino T, Nei D, Hu W and Sorour H (2004) Development of mathematical model for dependence of respiration rate of fresh produce on temperature and time. Postharvest Biol and Technol. 34: 285 293
- Villanueva MJ, Tenorio MD, Esteban MA and Mendoza M C (2004) Compositional changes during ripening of two cultivars of muskmelon fruits. Food Chem. 87:179–185.
- Wakabayashi K.2000.Changes in Cell Wall Polysaccharides During Fruit Ripening. J Plant Res. 113: 231-237
- Walter R H (1991). Function of pectin in plant tissue structure and firmness. In R. H. Walter (Ed.), The chemistry and technology of pectin. San Diego: Academic Press pp. 1–22.

- Wang X (1997) Biology of ripening of cactus apple, *Cereus peruvianus*. L.Miller. Ben Gurion Univ. of the Negev Desert, Beer- Sheva, Israel Ph.D. Thesis,.
- Watada AE and Qi L (1999) Quality of fresh-cut produce. Postharv. Biol. Technol. 15: 201-205.
- Watada AE, Ko NP and Minott DA (1996) Factors affecting quality of fresh-cut horticultural products. Postharvest Biol. Technol. 9:115–125.
- Watkins CB (2002) Ethylene synthesis, mode of action, consequences and control, In: Knee, M. (ed.). Fruit Quality and Its Biological Basis. Sheffield Academic Press, Sheffield, UK. pp. 180-224
- Weiss J, Nerd A and Mizrahi Y (1994) Flowering behavior and pollination requirements in climbing cacti with fruit crop potential. Horti. Sci. 29: 1487–1492
- White PJ (2002). Recent advances in fruit development and ripening: an overview. J. Exp. Bot. 53:1995–2000.
- Willats WGT, McCartney L, Mackie W and Knox JP (2001) Pectin: Cell biology and prospects for functional analysis. Plant Mol Biol. 47: 9-27
- Wills R., Mcglasson B., Graham D. Joyce D. 1998. Effects of temperature. In: Postharvest. 4th ed., UNSW Press, Australia pp. 60-76
- Wills RBH, McGlasson WB, Graham D, Lee TH, Hall EG (1989). Postharvest. An introduction to the physiology and handling of fruits and vegetables. Van Nostrands Reinhold, New York, pp. 17-52
- Wong D W S (1995) Pectic enzymes. Food Enzymes. Structure and Mechanisms. Chapman and Hall, New York pp 212-236
- Woolley LC, James DJ and Manning K (2001) Purification and properties of an endo-β-1,4glucanase from strawberry and down regulation of the corresponding gene. Planta. 214: 11-21
- Wu MC and Chen CS (1997) Variation of sugar content in various parts of pitaya fruit. Proc. Fla. State Hort. Soc.110: 225 -227

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- Wybraniec S and Mizrahi Y (2002) Fruit flesh betacyanin pigments in *Hylocereus* cacti. J. Agric. and Food Chem. 50: 6086–6089.
- Wybraniec S, Platzner I, Geresh S, Gottlieb M, Haimberg M, Mogilnitzki M (2001) Betacyanins from vine cactus *Hylocereus polyrhizus*. Phytochem. 58: 1208–1212
- Yahia EM (1998) Modified and controlled atmospheres for tropical fruits. Horti. Rev. 22: 123-183

- Zagory D and Kader AA (1998) Modified atmosphere packaging of fresh produce. Food Technology. 42 (9): 70-77
- Zainon MA, Chin LH and Lazan H (2004) A comparative study on cell wall degrading enzymes, pectin modifications and softening during ripening of selected tropical fruits. Plant Sci. 167: 317-327