

REFERENCES

- Abe, K. and Watada, A.E., 1991, "Ethylene Absorbant to Maintain Quality of Lightly Processed Fruits and Vegetables", **Journal of Food Science**, Vol. 56, pp. 1589-1592.
- Ahvenainen, R., 1996, "New Approaches in Improving the Shelf Life of Minimally Processed Fruits and Vegetables", **Trends in Food Science and Technology**, Vol. 7, pp. 179-187.
- Alexandre, E.M.C., Santos-Pedro, D.M., Brandão, T.R.S. and Silva, C.L.M., 2011, "Influence of Aqueous Ozone, Blanching and Combined Treatments on Microbial Load of Red Bell Peppers, Strawberries and Watercress", **Journal of Food Engineering**, Vol. 105, pp. 277-282.
- Allende, A., Aguayo, E. and Artés, F., 2004, "Microbial and Sensory Quality of Commercial Fresh Processed Red Lettuce throughout the Production Chain and Shelf Life", **International Journal of Food Microbiology**, Vol. 91, pp. 109-117.
- Allende, A., McEvoy, J., Tao, Y. and Luo, Y., 2009, "Antimicrobial Effect of Acidified Sodium Chlorite, Sodium Chlorite, Sodium Hypochlorite, and Citric Acid on *Escherichia coli* O157:H7 and Natural Microflora of Fresh-Cut Cilantro", **Food Control**, Vol. 20, pp. 230-234.
- Allende, A., Tomás-Barberán, F.A. and Gil, M.I., 2006, "Minimal Processing for Healthy Traditional Foods", **Trends in Food Science and Technology**, Vol. 17, pp. 513-519.
- Almeselmani, M., Deshmukh, P.S., Sairam, R.K., Kushwaha, S.R. and Singh, T.P., 2006, "Protective Role of Antioxidant Enzymes under High Temperature Stress", **Plant Science**, Vol. 171, pp. 382-388.
- Alscher, R.G., Erturk, N., and Heath, L.S., 2002, "Role of Superoxide Dismutases (SODs) in Controlling Oxidative Stress in Plants", **Journal of Experimental Botany**, Vol. 53, pp. 1331-1341.

Amir-Shapira, D., Goldschmidt, E.E. and Altman, A., 1987, "Chlorophyll Catabolism in Senescing Plat Tissues: *In vivo* Breakdown Intermediates Suggest Different Degradative Pathways for *Citrus* Fruit and Parsley Leaves", **The Proceeding of the National Academy of Sciences of the United States of America**, Vol. 84, pp. 1901-1905.

AMS (Agricultural Marketing Service), 2013, "Acidified Sodium Chlorite: Livestock", **Technical Evaluation Report, USDA (United States Department of Agriculture)**, pp. 1-16, [Online], Available: <http://www.ams.usda.gov/AMSV1.0/getfile?dDocName=STELPRDC5104647> [2014, March 26].

Apel, K., and Hirt, H., 2004, "Reactive oxygen Species: Metabolism, Oxidative Stress, and Signal Transduction", **Annual Review of Plant Physiology and Plant Molecular Biology**, Vol. 55, pp. 373-399.

ATSDR (Agency for Toxic Substances and Disease Registry), 2004, "Toxicological Profile for Chlorine Dioxide and Chlorite", **Atlanta (GA): U.S. Department of Health and Human Services, Public Health Service (PHS)**, [Online], Available: <http://www.atsdr.cdc.gov/toxprofiles/tp160.pdf> [2014, January 26].

Ayala-Zavala, J.F., Oms-Oliu, G., Odriozola-Serrano, I., González-Aguilar, G.A., Álvarez-Parrilla, E. and Martín-Belloso, O., 2008, "Bio-preservation of Fresh-cut Tomatoes Using Natural Antimicrobials", **European Food Research and Technology**, Vol. 226, pp. 1047-1055.

Barro, F., Fernández-Escobar, J., De la Vega, M. and Martin, A., 2002, "Modification of Glucosinolate and Erucic Acid Content in Doubled Haploid Lines of *Brassica carinata* by UV Treatment of Isolated Microspores", **Euphytica**, Vol. 129, pp. 1-6.

Barry-Ryan, C., 2012, "The Use of Mild Heat Treatment for Fruit and Vegetable Processing", In **Decontamination of Fresh and Minimally Processed Produce**, Gómez-López, V.M. (Ed.), Wiley-Blackwell Inc., USA., pp. 347-349.

Baur, S., Klaiber, R., Hammes, W.P. and Carle, R., 2004, "Sensory and Microbiological Quality of Shredded, Packaged Iceberg Lettuce as Affected by Pre-Washing Procedures with Chlorinated and Ozonated water", **Innovative Food Science and Emerging Technologies**, Vol. 5, pp. 45-55.

Baur, S., Klaiber, R., Wei, H., Hammes, W.P. and Carle, R., 2005, "Effect of Temperature and Chlorination of Pre-Washing Water on Shelf-Life and Physiological Properties of Ready-To-Use Iceberg Lettuce", **Innovative Food Science and Emerging Technologies**, Vol. 6, pp. 171-182.

Bautista-Banos, S., Garcia-Dominguez, E., Barrera-Necha, L.L., Reyes-Chilpa, R. and Wilson, C.L., 2003, "Seasonal Evaluation of the Postharvest Fungicidal Activity of Powders and Extracts of Huamuchil (*Pithecellobium dulce*): Action Against *Botrytris cinerea*, *Penicillium digitatum* and *Rhizopus stolonifer* of strawberry fruit", **Postharvest Biology and Technology**, Vol. 29, pp. 81-92.

Bautista-Banos, S., Hernandez-Lopez, M., Diaz-Perez, J.C. and Cano-Ochoa, C.F., 2000, "Evaluation of the Fungicidal Properties of Plant Extracts to Reduce *Rhizopus stolonifer* of 'ciruela' Fruit (*Spondias purpurea* L.) During Storage", **Postharvest Biology and Technology**, Vol. 20, pp. 99-106.

Beauchamp, C. and Fridovich, I., 1971, "Superoxide Dismutase: Improved Assays and an Assay Applicable to Acrylamide Gels", **Analytical Biochemistry**, Vol. 44, pp. 276-287.

Beaulieu, J.C. and Gorny, J.R., 2004, "Fresh-Cut Fruits", In **The Commercial Storage of Fruits, Vegetables, and Florist and Nursery Stocks**, Gross, K.C., Wang, C.Y. and Saltveit, M. (Eds.), Agriculture Handbook Number 66, U.S. Department of Agriculture, Agricultural Research Service, Beltsville, M.D., [Online], Available: <http://www.ba.ars.usda.gov/hb66/146freshcutfruits.pdf> [2013, October 20].

Behrsing, J., Winkler, S., Franz, P. and Premier, R., 2000, "Efficacy of Chlorine for Inactivation of *Escherichia coli* on Vegetables", **Postharvest Biology and Technology**, Vol. 19, pp. 187-192.

Beltrán, D., Selma, M.V., Marín, A. and Gil, M.I., 2005, "Ozonated Water Extends the Shelf Life of Fresh-Cut Lettuce", **Journal of Agricultural and Food Chemistry**, Vol. 53, pp. 5654-5663.

Bhunja, A.K., 2008, "Foodborne Microbial Pathogens: Mechanisms and Pathogenesis", **United States of America: Springer Science and Business Media**, LLC, Page 276.

Borowski, J., Szajdek, A., Borowska, E.J., Ciska, E. and Zieliński, H., 2008, “Content of Selected Bioactive Components and Antioxidant Properties of Broccoli (*Brassica oleracea* L.)”, **European Food Research and Technology**, Vol. 226, pp. 459-465.

Brackett, R.E., 1994, “Microbiological Spoilage and Pathogens in Minimally Processed Refrigerated Fruits and Vegetables”, In **Minimally Processed Refrigerated Fruits and Vegetables**, Wiley R.C. (Ed.), Chapman & Hall, New York, pp. 269-312.

Bradford, M.M., 1976, “A Rapid and Sensitive Method for the Quantitation of Microgram Quantities of Protein Utilizing the Principle of Protein-Dye Binding”, **Analytical Biochemistry**, Vol. 72, pp. 248-254.

Brand-Williams, W., Cuvelier, M.E. and Berset, C., 1995, “Use of Free Radical Method to Evaluate Antioxidant Activity”, **LWT – Food Science and Technology**, Vol. 28, pp. 25-30.

Cantwell, M. and Suslow, T.V., 2002, “Postharvest Handling Systems: Fresh-Cut Fruits and Vegetables”, In **Postharvest Technology of Horticultural Crops**, Kader, A.A. (Ed.), University of California, pp. 445-463.

Cantwell, M.I., Hong, G. and Suslow, T.V., 2001, “Growth and Enhance Microbial Disinfection of Minimally Processed Green Onions”, **Journal of the American Society for Horticultural Science**, Vol. 36, pp. 732-737.

Castillo, A., Lucia, L.M., Kemp, G.K. and Acuff, G.R., 1999, “Reduction of *Escherichia coli* O157:H7 and *Salmonella* Typhimurium on Beef Carcass Surfaces Using Acidified Sodium Chlorite”, **Journal of Food Protection**, Vol. 62, pp. 580-584.

Caverzan, A., Passaia, G., Rosa, S.B., Riberio, C.W., Lazzarotto, F. and Margis-Pinheiro, M., 2012, “Plant Response to Stresses: Role of Ascorbate Peroxidase in the Antioxidant Protection”, **Genetics and Molecular Biology**, Vol. 35, (suppl), pp. 1011-1019.

Chanjirakul, K., Wang, S.Y., Wang, C.Y. and Siriphanich, J., 2006, “Effect of Natural Volatile Compounds on Antioxidant Capacity and Antioxidant Enzymes in Raspberries”, **Postharvest Biology and Technology**, Vol. 40, pp. 106-115.

Chism, G.W. and Haard, N.F., 1996, "Characteristics of Edible Plant Tissues", In **Food Chemistry**, 3rd ed., Fennema, O. (Ed.), Dekker, New York, pp. 943-1011.

Cruz, S.R., Luo, Y., Gonzalez, R.J., Tao, Y. and González, G.A., 2006, "Acidified Sodium Chlorite As an Alternative to Chlorine to Control Microbial Growth on Shredded Carrots while Maintaining Quality", **Journal of the Science of Food and Agriculture**, Vol. 86, pp. 1887-1893.

Dabrowska, G., Kata, A., Goc, A., Szechynska-Hebda, M. and Skrzypek, E., 2007, "Characteristics of the Plant Ascorbate Peroxidase Family", **Acta Biologica Cracoviensia Series Botanica**, Vol. 49, pp. 7-17.

Delaquis, P.J., Stewart, S., Toivonen, P.M.A. and Moyls, A.L., 1999, "Effect of Warm, Chlorinated Water on the Microbial Flora of Shredded Iceberg Lettuce", **Food Research International**, Vol. 32, pp. 7-14

Dewanto, V., Wu, X., Adom, K.K. and Liu, R.H., 2002, "Thermal Processing Enhances the Nutritional Value of Tomatoes by Increasing Total Antioxidant Activity", **Journal of Agricultural and Food Chemistry**, Vol. 50, pp. 3010-3014.

Dong, H., Jiang, Y., Wang, Y., Liu, R. and Guan, H., 2004, "Effects of Hot Water Immersion on Storage Quality of Fresh Broccoli Heads", **Food Technology and Biotechnology**, Vol. 42, pp. 135-139.

Doyle, M.E., 2007, "Microbial Food Spoilage – Losses and Control Strategies: A Brief Review of the Literature", **Food Research Institute, University of Wisconsin-Madison**, Madison, pp. 1-16, [Online], Available: http://fri.wisc.edu/docs/pdf/FRI_Brief_Microbial_Food_Spoilage_7_07.pdf [2013, April 20].

Eaton, A.D., Clesceri, L.S., Rice, E.W. and Greenberg, A.E., 2005, "Indigo Colorimetric Method for Residual Ozone Analysis", In **Standard Methods for the Examination of Water and Wastewater: Method 4500-O₃ B**, Vol. 4, pp. 144-146.

EC (European Commission), 2005, “Commission Regulation (EC) No. 2073/2005 of 15 November 2005 on Microbiological Criteria for Foodstuffs”, In **Official Journal of the European Union L 338**, pp. 1-26, [Online], Available: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CONSLEG:2005R2073:20071227:EN:PDF> [2014, March 7].

Erkan, M., Wang, S.Y., and Wang, C.Y., 2008, “Effect of UV Treatment on Antioxidant Capacity, Antioxidant Enzyme Activity and Decay in Strawberry Fruit”, **Postharvest Biology and Technology**, Vol. 48, pp. 163-171.

Fallik, E., 2004, “Review: Prestorage Hot Water Treatments (Immersion, Rinsing and Brushing)”, **Postharvest Biology and Technology**, Vol. 32, pp. 125-134.

FAO (Food and Agriculture Organization of the United Nations), 2003, "Chapter 3: General Considerations for Preservation of Fruits and Vegetables", In **Handling and Preservation of Fruits and Vegetables by Combined Methods for Rural Areas: Technical Manual**, Food and Agriculture Organization of the United Nations, pp. 39-54, [Online], Available: <http://www.fao.org/docrep/005/y4358e/y4358e06.htm> [2013, April 20].

Farnham, M.W. and Kopsell, D.A., 2009, “Importance of Genotype on Carotenoid and Chlorophyll Levels in Broccoli Heads”, **Journal of the American Society for Horticultural Science**, Vol. 44, pp. 1248-1253.

FDA (Food and Drug Administration), 2000, “Acidified Sodium Chlorite Solutions, Code of federal regulations, 21 CFR173.325”, In **Office of the Federal Register**, US Government Printing Office, Washington, DC., [Online], Available: <http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/CERSearch.cfm> [2013, September 30].

FDA (Food and Drug Administration), 2001, “Chapter V: Methods to Reduce/Eliminate Pathogens from Fresh and Fresh-cut Produce”, In **Analysis and Evaluation of Preventive Control Measures for the Control and Reduction of Microbial Hazards on Fresh and Fresh Cut Produce**, [Online], Available: <http://www.cfsan.fda.gov/~comm/ift3-5html> [2008, August 10].

FDA (Food and Drug Administration), 2010, “Chlorine Dioxide, Code of Federal Regulations, 21 CFR173.300”, In **Office of the Federal Register**, US Government Printing Office, Washington, DC., [Online], Available: <http://www.gpo.gov/fdsys/pkg/CFR-2010-title21-vol3/pdf/CFR-2010-title21-vol3-sec173-300.pdf> [2013, September 30].

FDA (Food and Drug Administration), 2012, “Secondary Direct Food Additives Permitted in Food for Human Consumption, Rules and Regulations – Ozone, Specific Usage Additives”, In **Office of the Federal Register**, US Government Printing Office, Washington, DC., [Online], Available: <http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/CFRSearch.cfm?fr=173.368> [2013, October 29].

FDA (Food and Drug Administration), 2013, “Chapter IV: Outbreaks Associated with Fresh and Fresh-Cut Produce”, In **Incidence, Growth, and Survival of Pathogens in Fresh and Fresh-Cut Produce**, [Online], Available: <http://www.fda.gov/Food/FoodScienceResearch/SafePracticesforFoodProcesses/ucm091265.htm> [2013, October 29].

Finley, J.W., 2005, “Proposed Criteria for Assessing the Efficacy of Cancer Reduction by Plant Foods Enriched in Carotenoids, Glucosinolates, Polyphenols and Selenocompounds”, **Annals of Botany**, Vol. 95, pp. 1075-1096.

Fonseca, S.C. Oliveira, F.A.R., Brecht, J.K. and Chau, K.V., 2005, “Influence of Low Oxygen and High Carbon Dioxide on Shredded Galega Kale Quality for Development of Modified Atmosphere Packages”, **Postharvest Biology and Technology**, Vol. 35, pp. 279-292.

Forney, C.F. and Jordan, M.A., 1998, “Induction of Volatile Compounds in Broccoli by Postharvest Hot-Water Dips”, **Journal of Agricultural and Food Chemical**, Vol. 46, pp. 5295-5301.

Forney, C.F., 1995, “Hot-Water Dips Extend the Shelf Life of Fresh Broccoli”, **Journal of the American Society for Horticultural Science**, Vol. 30, pp. 1054-1057.

Forney, C.F., Song, J., Fan, L., Hildebrand, P.D. and Jordan, M.A., 2003, “Ozone and 1-Methylcyclopropene Alter the Postharvest Quality of Broccoli”, **Journal of the American Society for Horticultural Science**, Vol. 128, pp. 403-408.

Forney, C.F., Song, J., Hildebrand, P.D., Fan, L. and McRae, K.B., 2007, “Interactive Effects of Ozone and 1-Methylcyclopropene on Decay Resistance and Quality of Stored Carrots”, **Postharvest Biology and Technology**, Vol. 45, pp. 341-348.

Francisco, M., Velasco, P., Moreno, D.A., Garcia-Viguera, C. and Cartea, M.E., 2010, “Cooking Methods of *Brassica rapa* Affect the Preservation of Glucosinolates, Phenolics and Vitamin C”, **Food Research International**, Vol. 43, pp. 1455-1463

Fukasawa, A., Suzuki, Y., Terai, H. and Yamauchi, N., 2010, “Effects of Postharvest Ethanol Vapor Treatment on Activities and Gene Expression of Chlorophyll Catabolic Enzymes in Broccoli Florets”, **Postharvest Biology and Technology**, Vol. 55, pp. 97-102.

Funamoto, Y., Yamauchi, N. and Shigyo, M., 2003, “Involvement of Peroxidase in Chlorophyll Degradation in Stored Broccoli (*Brassica oleracea* L.) and Inhibition of Activity by Heat Treatment”, **Postharvest Biology and Technology**, Vol. 28, pp. 39-46.

Funamoto, Y., Yamauchi, N. and Shigyo, M., 2006, “Control of Isoperoxidases Involved in Chlorophyll Degradation of Stored Broccoli (*Brassica oleracea*) Florets by Heat Treatment”, **Journal of Plant Physiology**, Vol. 163, pp. 141-146.

Funamoto, Y., Yamauchi, N., Shigenaga, T. and Shigyo, M., 2002. “Effects of Heat Treatment on Chlorophyll Degrading Enzymes in Stored Broccoli (*Brassica oleracea* L.)”, **Postharvest Biology and Technology**, Vol. 24, pp. 163-170.

Garcia, E. and Barrett, D.M., 2002, “Chapter 9: Preservative Treatments for Fresh-Cut Fruits and Vegetables”, In **Fresh-Cut Fruits and Vegetables: Science, Technology and Market**, Lamikanra, O. (Ed), CRC Press, Taylor and Francis, Boca Raton, FL., pp. 274-310.

Gil, M.I., Allende, A. and Selma, M.V., 2010, “Chapter 8: Treatments to Ensure Safety of Fresh-Cut Fruits and Vegetables”, In **Advances in Fresh-cut Fruits and Vegetables Processing**, Martín-Belloso, O. and Soliva-Fortuny, R. (Eds.), CRC Press, Taylor and Francis, Boca Raton, FL, pp. 211-229.

Gil, M.I., Ferreres, F. and Tomas-Barberan, F.A., 1998, "Effect of Modified Atmosphere Packaging on the Flavonoids and Vitamin C Content of Minimally Processed Swiss Chard (*Beta vulgaris* Subspecies *cycla*)" **Journal of Agricultural and Food Chemistry**, Vol. 46, pp. 2007-2012.

Gil, M.I., Selma, M.V., López-Gálvez, F. and Allende, A., 2009, "Review: Fresh-Cut Product Sanitation and Wash Water Disinfection: Problems and Solutions", **International Journal of Food Microbiology**, Vol. 134, pp. 37-45.

Gill, S.S., Anjum, N.A., Hasanuzzaman, M., Gill, R., Trivedi, D.K., Ahmad, I., Pereira, E. and Tuteja, N., 2013, "Glutathione and Glutathione Reductase: A Boon in Disguise for Plant Abiotic Stress Defense Operations", **Plant Physiology and Biochemistry**, Vol. 70, pp. 204-212.

Gregory, J.F., "Vitamins", In **Food Chemistry**, 3rd ed., Fennema, O.R. (Ed), Dekker, New York, pp. 531-616.

Gülçin, I. and Ak, T., 2008, "Antioxidant and Radical Scavenging Properties of Curcumin", **Chemical-Biological Interactions**, Vol. 174, pp. 27-37.

Halkier, B.A. and Gershenzon, J., 2006, "Biology and Biochemistry of Glucosinolates", **The Annual Review of Plant Biology**, Vol. 57, pp. 303-333.

Heard, G.M., 2002, "Chapter 7: Microbiology of Fresh-cut Produce", In **Fresh-Cut Fruits and Vegetables: Science, Technology and Market**, Lamikanra, O. (Ed), CRC Press, Taylor and Francis, Boca Raton, FL., pp. 194-255.

Heaton, J.W. and Marangoni, A.G., 1996, "Review: Chlorophyll Degradation in Processed Foods and Senescent Plant Tissues", **Trends in Food Science and Technology**, Vol. 7, pp. 8-15.

Hemphill, D., 2010, "Broccoli, Fresh Market Vegetable Production, Processed Vegetable Production", **Department of Horticulture, Oregon State University, USA**, [Online], Available: <http://horticulture.oregonstate.edu/content/broccoli-1> [2012, March 24].

Herr, I. and Büchler, M.W., 2010, "Dietary Constituents of Broccoli and Other Cruciferous Vegetable: Implications for Prevention and Therapy of Cancer", **Cancer Treatment Reviews**, Vol. 36, pp. 377-383.

Higdon, J.V., Delage, B., Williams, D.E. and Dashwood, R.H., 2007, "Cruciferous Vegetables and Human Cancer Risk: Epidemiologic Evidence and Mechanistic Basis", **Pharmacological Research**, Vol. 55, pp. 224-236.

Hildebrand, P.D., Forney, C.F., Song, J., Fan, L. and McRae, K.B., 2008, "Effect of a Continuous Low Ozone Exposure (50 nL L⁻¹) on Decay and Quality of Stored Carrots", **Postharvest Biology and Technology**, Vol. 49, pp. 397-402.

Hörtensteiner, S., 2006, "Chlorophyll Degradation during Senescence", **Annual Review of Plant Biology**, Vol. 57, pp. 55-77.

IARC (International Agency for Research on Cancer), 1991, "Sodium Chlorite", In **Chlorinated Drinking-Water, Chlorination By-Products, some Other Compounds, Cobalt and Cobalt compounds**, IARC Working Group, June 12-19, 1990, Lyon, France.

IFPA (International Fresh-cut Produce Association) and PMA (Produce Marketing Association), 1999, "Handling Guidelines for the Fresh-cut Produce Industry", 3rd ed., 7 IFPA, Alexandria, VA., Page 5.

Inatsu, Y., Bari, M.L. and Kawamoto, S., 2007, "Review: Application of Acidified Sodium Chlorite Prewashing Treatment to Improve the Food Hygiene of Lightly Fermented Vegetables", **Japan Agricultural Research Quarterly**, Vol. 41, pp. 17-23.

Ippoushi, K., Takeuchi, A., Ito, H., Horie, H. and Azuma, K., 2007, "Antioxidative Effects of Daikon Sprout (*Raphanus sativus* L.) and Ginger (*Zingiber officinale* Roscoe) in Rats", **Food Chemistry**, Vol. 102, pp. 237-242.

James, J.B. and Ngarmsak, T., 2011, "Processing of Fresh-Cut Tropical Fruits and Vegetables: A Technical Guide", In **Food and Agriculture Organization of the United Nations Regional Office for Asia and the Pacific (RAP Publication 2010/16)**, Rolle, R.S. (Ed.), pp. 135-183.

Javanmardi, J., Stushnoff, C., Locke, E. and Vivanco, J.M., 2003, "Antioxidant Activity and Total Phenolic Content of Iranian *Ocimum* Accessions", **Food Chemistry**, Vol. 83, pp. 547-550.

Jia, C.G., Xu, C.J., Wei, J., Yuan, J., Yuan, G.F., Wang, B.L. and Wang, Q.M., 2009, "Effect of Modified Atmosphere Packaging on Visual Quality and Glucosinolates of Broccoli Florets", **Food Chemistry**, Vol. 114, pp. 28-37.

Jiang, T., Jahangir, M.M., Jiang, Z., Lu, X. and Ying, T., 2010, "Influence of UV-C Treatment on Antioxidant Capacity, Antioxidant Enzyme Activity and Texture of Postharvest Shiitake (*Lentinus edodes*) Mushrooms during Storage", **Postharvest Biology and Technology**, Vol. 56, pp. 209-215.

Johannessen, G.S., Loncarevic, S. and Kruse, H., 2002, "Bacteriological Analysis of Fresh Produce in Norway", **International Journal of Food Microbiology**, Vol. 77, pp. 199-204.

Jones, R.B., Faragher, J.D. and Winkler, S., 2006, "A Review of the Influence of Postharvest Treatments on Quality and Glucosinolate Content in Broccoli (*Brassica oleracea* var. *italica*) heads", **Postharvest Biology and Technology**, Vol. 41, pp. 1-8.

Kader, A.A. and Saltveit, M.E., 2003, "Chapter 2: Respiration and Gas exchange", In **Postharvest Physiology and Pathology of Vegetables**, Bartz, J.A. and Brecht, J.K. (Eds.), Dekker, M., New York, USA, pp. 7-32.

Kader, A.A., 2002, **Postharvest Technology of Horticultural Crops**, 3rd ed. University of California, Division of Agriculture and Natural Resources, Oakland, USA. 535 page.

Kasim, R., Kasim, M.U. and Erkal, S., 2007, "The Effect of Packaging After 1-MCP Treatment on Color Changes and Chlorophyll Degradation of Broccoli (*Brassica oleracea* var. *italica* cv. Monopoly)", **Journal of Food, Agriculture and Environment**, Vol. 5, pp. 48-51.

Kawano, T., 2003, "Roles of the Reactive Oxygen Species-Generating Peroxidase Reactions in Plant Defense and Growth Induction", **Plant Cell Reports**, Vol. 21, pp. 829-837.

Keck, A.S. and Finley, J.W., 2004, "Cruciferous Vegetables: Cancer Protective Mechanisms of Glucosinolate Hydrolysis Products and Selenium", **Integrated Cancer Therapy**, Vol. 3, pp. 5-12.

Ketteringham, L., Gausseres, R., James, S.J. and James, C., 2006, "Application of Aqueous Ozone for Treating Pre-Cut Green Peppers (*Capsicum annuum* L.)", **Journal of Food Engineering**, Vol. 76, pp. 104-111.

Khadre, M.A., Yousef, A.E. and Kim, J.-G., 2001, "Microbiological Aspects of Ozone Applications in Food: A Review", **Journal of Food Science**, Vol. 66, pp. 1242-1252.

Kim, J.B., Yousef, A.E., and Dave, S., 1999, "Application of Ozone for Enhancing the Microbiological Safety and Quality of Foods: A review", **Journal of Food Protection**, Vol. 62, pp. 1071-1087.

Kim, S.R., Rhee, M.S., Kim, B.C. and Kim, K.H., 2007, "Modeling the Inactivation of *Escherichia coli* O157:H7 and Generic *Escherichia coli* by Supercritical Carbon Dioxide", **International Journal of Food Microbiology**, Vol. 118, pp. 52-61.

Klaiber, R.G., Baur, S., Wolf, G., Hammes, W.P. and Carle, R., 2005, "Quality of Minimally Processed Carrots as Affected by Warm Water Washing and Chlorination", **Innovative Food Science and Emerging Technologies**, Vol. 6, pp. 351-362.

Kliebenstein, D.J., Monde, R.A. and Last, R.L., 1998, "Superoxide Dismutase in Arabidopsis: and Eclectic Enzyme Family with Disparate Regulation and Protein Localization", **Plant Physiology**, Vol. 118, pp. 637-650.

Koh, E., Wimalasiri, K.M.S., Chassy, A.W. and Mitchell, A.E., 2009, "Content of Ascorbic Acid, Quercetin, Kaempferol and Total Phenolics in Commercial Broccoli", **Journal of Food Composition and Analysis**, Vol. 22, pp. 637-643.

Kondo, N., Murata, M. and Isshiki, K., 2006, "Efficiency of Sodium Hypochlorite, Fumaric Acid and Mild Heat in Killing Native Microflora and *E. coli* O157:H7, *Salmonella Typhimurium* DT104 and *Staphylococcus aureus* Attached to Fresh-Cut Lettuce", **Journal of Food Protection**, Vol. 69, pp. 323-329.

Koukounaras, A., Siomos, A.S. and Sfakiotakis, E., 2009, "Impact of Heat Treatment on Ethylene Production and Yellowing of Modified Atmosphere Packaged Rocket Leaves", **Postharvest Biology and Technology**, Vol. 54, pp. 172-176.

Kuk, Y.I., Shin, J.S., Burgos, N.R., Hwang, T.E., Han, O., Cho, B.H., Jung, S., Guh, J.O., 2003, "Antioxidative Enzymes offer Protection from Chilling Damage in Rice Plants", **Crop Science**, Vol. 43, pp. 2109-2117.

Kumar, D.B. and Kim, J.G., 2010, "Microbial Quality and Safety of Fresh-Cut Broccoli with Different Sanitizers and Control Times", **Journal of Microbiology and Biotechnology**, Vol. 20, pp. 363-369.

Lakhanpal, P. and Rai, D.K., 2007, "Quercetin: a Versatile Flavonoid", **Internet Journal of Medical Update**, Vol. 2, pp. 22-37.

Lamikanra, O., 2005, "Mechanical Injury of Fresh Produce", In **Produce Degradation Pathways and Prevention**, Lamikanra, O., Imam, S. and Ukuku, D. (Eds.), CRC Press, Taylor and Francis, Boca Raton, FL, pp. 79-115.

Langmeier, M., Ginsburg, S. and Matile, P., 1993, "Chlorophyll Breakdown in Senescent Leaves: Demonstration of Mg-Dechelataase Activity", **Plant Physiology**, Vol. 89, pp. 347-353.

Latté, K.P., Appel, K. and Lampen, A., 2011, "Health Benefits and Possible Risks of Broccoli – An Overview", **Food and Chemical Toxicology**, Vol. 49, pp. 3287-3309.

Lee, J.Y., Park, H.J., Lee, C.Y. and Choi, W.Y., 2003, "Extending Shelf-Life of Minimally Processed Apples with Edible Coatings and Antibrowning Agents", **LWT – Food Science and Technology**, Vol. 36, pp. 323-329.

Lee, S.Y. and Baek, S.Y., 2008, "Effect of Chemical Sanitizer Combined with Modified Atmosphere Packaging on Inhibiting *Escherichia coli* O157:H7 in Commercial Spinach", **Food Microbiology**, Vol. 25, pp. 582-587.

Leistner, L., 2000, "Basic Aspects of Food Preservation by Hurdle Technology", **International Journal of Food Microbiology**, Vol. 10, pp. 181-186.

Lemoine, M.L., Civello, P., Chaves, A. and Martínez, G., 2009, “Hot Air Treatments Delays Senescence and Maintains Quality of Fresh-Cut Broccoli Florets during Refrigerated Storage”, **LWT – Food Science and Technology**, Vol. 42, pp. 1076-1081.

Lemoine, M.L., Civello, P.M., Chaves, A.R. and Martinez, G.A., 2008, “Effect of Combined Treatment with Hot Air and UV-C on Senescence and Quality Parameters of Minimally Processed Broccoli (*Brassica oleracea* L. var. *italica*)”, **Postharvest Biology and Technology**, Vol. 48, pp. 15-21.

Lemoine, M.L., Civello, P.M., Chaves, A.R. and Martínez, G.A., 2010, “Influence of Combined Hot Air and UV-C Treatment on Quality Parameters of Fresh-Cut Broccoli Florets at 0 °C”, **International Journal of Food Science and Technology**, Vol. 45, pp. 1212-1218.

Li, L. and Yi, H., 2012, “Effect of Sulfur Dioxide on ROS Production, Gene Expression and Antioxidant Enzyme Activity in Arabidopsis Plants”, **Plant Physiology and Biochemistry**, Vol. 58, pp. 46-53.

Li, Y., Brackett, R.E., Chen, J. and Beuchat, L.R., 2002, “Mild Heat Treatment of Lettuce Enhances Growth of *Listeria monocytogenes* during Subsequent Storage at 5 degree C or 15 degree C”, **Journal of Applied Microbiology**, Vol. 92, pp. 269-275.

Li, Y., Brackett, R.E., Shewfelt, R.L. and Beuchat, L.R., 2001, “Changes in Appearance and Natural Microflora on Iceberg Lettuce Treated in Warm, Chlorinated Water and then Stored at Refrigeration Temperature”, **Food Microbiology**, Vol. 18, pp. 299-308.

Liao, C.H. and Wells, J.M., 1987, “Diversity of Pectolytic, Fluorescent Pseudomonads Causing Soft Rots of Fresh Vegetables at Produce Markets”, **Phytopathology**, Vol. 77, pp. 673-677, [Online], Available: http://www.apsnet.org/publications/phytopathology/backissues/Documents/1987Articles/Phyto77n05_673.pdf [2012, April 20].

Lichtenthaler, H.K., 1987, “Chlorophylls and Carotenoids: Pigments of Photosynthetic Biomembranes”, **Methods Enzymology**, Vol. 148, pp. 350-382.

Liew, C.L. and Prange, R.K., 1994, “Effect of Ozone and Storage Temperature on Postharvest Diseases and Physiology of Carrots (*Daucus carota* L.)”, **Journal of the American Society for Horticultural Science**, Vol. 119, pp. 563-567.

Liochev, S.I. and Fridovich, I., 2007, "The Effects of Superoxide Dismutase on H₂O₂ Formation", **Free Radical Biology and Medicine**, Vol. 42, pp. 1465-1469.

Lu, S., Luo, Y. and Feng, H., 2006, "Inhibition of Apple Polyphenol Oxidase Activity by Sodium Chlorite", **Journal of Agricultural of Food Chemistry**, Vol. 54, pp. 3693-3696.

Lu, S., Luo, Y., Turner, E. and Feng, H., 2007, "Efficacy of Sodium Chlorite as an Inhibitor of Enzymatic Browning in Apple Slices", **Food Chemistry**, Vol. 104, pp. 824-829.

Mahmoud, B.S.M., 2010, "Effects of X-Ray Radiation on *Escherichia coli* O157:H7, *Listeria monocytogenes*, *Salmonella enteric* and *Shigella flexneri* Inoculated on Shredded Iceberg Lettuce", **Food Microbiology**, Vol. 27, pp. 109-114.

Manuwong, S., Uthairatanakij. A. and Jitareerat, P., 2007, "Effects of Hot Water and Sodium Hypochlorite Treatments on Survival of *Salmonella* spp. and Qualities of Fresh-Cut Pineapple", **Acta Horticulturae**, Vol. 746, pp. 401-408.

Margoson, D.A., Smilanick, J.L., Simmons, G.F., Henson, D.J., 1997, "Combination of Hot Water and Ethanol to Control Postharvest Decay of Peaches and Nectarines", **Plant Disease**, Vol. 81, pp. 1405-1409.

Martín-Diana, A.B., Rico, D., Barry-Ryan, C., Frías, J.M., Henehan, G.T.M. and Barat, J.M., 2007, "Efficacy of Steamer Jet-Injection as Alternative to Chlorine in Fresh-Cut Lettuce", **Postharvest Biology and Technology**, Vol. 45, pp. 97-107.

Martínez-Sánchez, A., Allende, A., Bennett, R.N., Ferreres, F. and Gil, M.I., 2006, "Microbial, Nutritional and Sensory Quality of Rocket Leaves as Affected by Different Sanitizers", **Postharvest Biology and Technology**, Vol. 42, pp. 86-97.

Merck, 2001, "Sodium Chlorite", In **The Merck Index: An Encyclopedia of Chemicals, Drugs, and Biologicals**, 13th Ed, Whitehouse Station (NJ), Merck & Co., Inc., p. 1538 [Abstract No. 8672].

- Mhamdi, A., Queval, G., Chaouch, S., Vanderauwera, S., Van Breusegem, F. and Noctor, G., 2010, "Catalase Function in Plants: a Focus on *Arabidopsis* Mutants as Stress-Mimic Models", **Journal of Experimental Botany**, Vol. 61, pp. 4197-4220.
- Mittler, R., 2002, "Oxidative Stress, Antioxidants and Stress Tolerance", **Trends in Plant Science**, Vol. 7, pp. 405-410.
- Mittler, R., Vanderauwera, S., Gollery, M. and Van Breusegem, F., 2004, "Reactive oxygen gene network of plants", **Trends in Plant Science**, Vol. 9, pp. 1360-1385.
- Montero-Calderon, M., Rojas-Grau, M.A. and Martín-Belloso, O., 2008, "Effect of Packaging Conditions on Quality and Shelf-Life of Fresh-Cut Pineapple (*Ananas comosus*)", **Postharvest Biology and Technology**, Vol. 50, pp. 182-189.
- Moor, G., Griffith, C. and Peters, A., 2000, "Bactericidal Properties of Ozone and Its Potential Application as a Terminal Disinfectant", **Journal of Food Protection**, Vol. 63, pp. 1100-1106.
- Moran, R., 1982, "Formulae for Determination of Chlorophyllous Pigments Extracted with *N,N*-dimethylformamide", **Plant Physiology**, Vol. 69, pp. 1376-1381.
- Moreira, M.R., Ponce, A.G., Valle, C.E., Perayra, L. and Roura, S.I., 2008, "Mild Heat Shocks to Extend the Shelf Life of Minimally Processed Lettuce", **Journal of Applied Horticulture**, Vol. 10, pp. 87-92.
- Moreno, D.A., Carvajal, M., López-Berenguer, C. and García-Viguera, C., 2006, "Chemical and Biological Characterization of Nutraceutical Compounds of Broccoli", **Journal of Pharmaceutical and Biomedical Analysis**, Vol. 41, pp. 1508-1522.
- Morris, J.R. and Brady, P.L., 2005, "Temperature Effects on Produce Degradation", In **Produce Degradation Pathways and Prevention**, Lamikanra, O., Imam, S. and Ukuku, D. (Eds.), CRC Press, Taylor and Francis, Boca Raton, FL, pp. 600-647.
- Müller, H., 1997, "Determination of the Carotenoid Content in Selected Vegetables and Fruit by HPLC and Photodiode Array Detection", **European Food Research and Technology**, Vol. 204, pp. 88-94.

- Munyaka, A.W., Oey, I., Loey, A.V. and Hendrickx, M., 2010, "Application of Thermal Inactivation of Enzymes during Vitamin C Analysis to Study the Influence of Acidification, Crushing and Blanching on Vitamin C Stability in Broccoli (*Brassica oleracea* L. var. *italica*)", **Food Chemistry**, Vol. 120, pp. 591-598.
- Nath, A., Bagchi, B., Misra, L.K. and Deka, B.C., 2011, "Changes in Post-Harvest Phytochemical Qualities of Broccoli Florets during Ambient and Refrigerated Storage", **Food Chemistry**, Vol. 127, pp. 1510-1514.
- Nguyen-The, C. and Carlin, F., 2000, "Fresh and Processed Vegetables", In **The Microbiological Safety and Quality of Food**, Lund, B.M., Baird-Parker, T.C. and Gould, G.W. (Eds.), Maryland, Aspen Publishers, Inc., Vol. 1, pp. 620-684.
- Nicola, S., Tibaldi, G. and Fontana, E., 2009, "Fresh-Cut Produce Quality: Implications for a Systems Approach", In **Postharvest Handling: A Systems Approach**, 2nd ed., Florkowski, W.J., Shewfelt, R.L., Brueckner, B. and Prussia, S.E. (Eds.), Elsevier Inc., USA., pp. 247-282.
- Nunes, M.C.N. and Emond, J.P., 2003, "Storage Temperature", In **Postharvest Physiology and Pathology of Vegetables**, 2nd ed., Bartz, J.A. and Brecht, J.K. (Eds.), Marcel Dekker, Inc., New York, USA, pp. 209-228.
- Ölmez, H. and Akbas, M.Y., 2009, "Optimization of Ozone Treatment of Fresh-Cut Green Leaf Lettuce", **Journal of Food Engineering**, Vol. 90, pp. 487-494.
- Ölmez, H. and Kretschmar, U., 2009, "Review: Potential Alternative Disinfection Methods for Organic Fresh-Cut Industry for Minimizing Water Consumption and Environmental Impact", **LWT – Food Science and Technology**, Vol. 42, pp. 686-693.
- Pang, C.-H. and Wang, B.-S., 2010, "Chapter 3: Role of Ascorbate Peroxidase and Glutathione Reductase in Ascorbate-Glutathione Cycle and Stress Tolerance in Plants", In **Ascorbate-Glutathione Pathway and Stress Tolerance in Plants**, Anjum, N.A., Umar, S. and Chan, M.-T., (Eds.), Springer Dordrecht Heidelberg, New York, USA, pp. 91-113.
- Paolini, M., Perocco, P., Canistro, D., Valgimigli, L., Pedulli, G.F., Iori, R., Croce, C.D., Cantelli-Forti, G., Legator, M.S. and Abdel-Rahman, Z., 2004, "Introduction of

Cytochrome P450, Generation of Oxidative of Stress and *In vitro* Cell-Transforming and DNA-Damaging Activities by Glucoraphanin, the Bioprecursor of the Chemopreventive Agent Sulforaphane Found in Broccoli”, **Carcinogenesis**, Vol. 25, pp. 61-67.

Patterson, B.D., MacRae, E.A. and Ferguson, I.B., 1984, “Estimation of Hydrogen Peroxide in Plant Extracts Using Titanium (IV)”, **Analytical Biochemistry**, Vol. 139, pp. 487-492.

Perkins, H.J. and Roberts, D.W., 1962, “Purification of Chlorophylls, Pheophytins and Pheophorbides for Specific Activity Determinations”, **Biochimica Biophysica Acta**, Vol. 58, pp. 486-498.

Ponce, A.G., Roura, S.I., del Valle, C.E. and Moreira, M.R., 2008, “Antimicrobial and Antioxidant Activities of Edible Coatings Enriched with Natural Plant Extracts: *In vitro* and *In vivo* Studies”, **Postharvest Biology and Technology**, Vol. 49, pp. 294-300.

Quan, L.-J., Zhang, B., Shi, W.-W. and Li, H.-Y., 2008, “Hydrogen Peroxide in Plants: a Versatile Molecule of the Reactive Oxygen Species Network”, **Journal of Integrative Plant Biology**, Vol. 50, pp. 2-18.

Ramos, B., Miller, F.A., Brandão, T.R.S., Teixeira, P. and Silva, C.L.M., 2013, “Fresh Fruits and Vegetables – An Overview on Applied Methodologies to Improve its Quality and Safety”, **Innovative Food Science and Emerging Technologies**, Vol. 20, pp. 1-15.

Rangavajhyala, N., Ghorpade, V.M. and Kadam, S.S., 1998, “Broccoli”, In **Handbook of Vegetable Science and Technology: Production, Composition, Storage and Processing**, Salunkhe, D.K. and Kadam, S.S. (Eds.), Marcel Dekker, New York, USA, pp. 337-357.

Rao, M.V., 2007, “Acidified Sodium Chlorite (ASC)” In **Chemical and Technical Assessment for the 68th Joint FAO/WHO Expert Committee on Food Additives (JECFA)**, [Online], Available: http://www.fao.org/fileadmin/templates/agns/pdf/jecfa/cta/68/Acidified_Sodium_Chlorite.pdf [2012, March 24].

Richardson, S.D., Jr., Thruston, A.D, Caughran, T.V., Chen, P.H., Collette, T.W., Schenck, K.M., Lykins Jr. B.W., Rav-Acha, C. and Glezer, V., 2000, “Identification of

New Drinking Water Disinfection Byproducts from Ozone, Chlorine Dioxide Chloramines, and Chlorine”, **Water, Air and Soil Pollution**, Vol. 123, pp. 95-102.

Rico, D., Martín-Diana, A.B., Barat, J.M. and Barry-Ryan, C., 2007, “Extending and Measuring the Quality of Fresh-Cut Fruit and Vegetables: A Review”, **Trends in Food Science and Technology**, Vol. 18, pp. 373-386.

Robles-Sánchez, R.M., Rojas-Graü, M.A., Odriozola-Serrano, I., González-Aguilar, G.A., and Martín-Belloso, O., 2009, “Effect of Minimal Processing on Bioactive Compounds and Antioxidant Activity of Fresh-Cut ‘Kent’ Mango (*Mangifera indica* L.)”, **Postharvest Biology and Technology**, Vol. 51, pp. 384-390.

Rohman, A., Riyanto, S., Yuniarti, N., Saputra, W.R., Utami, R. and Mulatsih, W., 2010, “Antioxidant Activity, Total Phenolic, and Total Flavaonoid of Extracts and Fractions of Red Fruit (*Pandanus conolideus* Lam)”, **International Food Research Journal**, Vol. 17, pp. 97-106.

Rong, C., Qi, L., Bang-zhong, Y. and Lan-lan, Z., 2010, “Combined Effect of Ozonated Water and Chitosan on the Shelf-life of Pacific Oyster (*Crassostrea gigas*)”, **Innovative Food Science and Emerging Technologies**, Vol. 11, pp. 108-112.

Rouzaud, G., Rabot, S., Ratcliffe, B. and Duncan, A.J., 2003, "Influence of Plant and Bacterial Myrosinase activity on the Metabolic Fate of Glucosinolates in Gnotobiotic Rats", **British Journal of Nutrition**, Vol. 90, pp. 395-404.

Roy, M.K., Juneja, L.R., Isobe, S. and Tsushida, T., 2009, “Steam Processed Broccoli (*Brassica oleracea*) has Higher Antioxidant Activity in Chemical and Cellular Assay Systems”, **Food Chemistry**, Vol. 114, pp. 263-269.

Ruiz-Cruz, S., Acedo-Felix E., M. Diaz-Cinco, Islas-Osuna, M.A. and Gonzalez-Aguilar, G.A., 2007, “Efficacy of Sanitizers in Reducing *Escherichia coli* O157:H7, *Salmonella* spp. and *Listeria monocytogenes* Populations on Fresh-Cut Carrots”, **Food Control**, Vol. 18, pp. 1383-1390.

Ruiz-Cruz, S., Luo, Y., Gonzalez, R.J., Tao, Y. and González, G.A., 2006, “Acidified Sodium Chlorite as an Alternative to Chlorine to Control Microbial Growth on Shredded Carrots while Maintaining Quality”, **Journal of the Science of Food and Agriculture**, Vol. 86, pp. 1887-1893.

Rushing, J.W., 1990, “Cytokinins Affect Respiration, Ethylene Production, and Chlorophyll Retention of Packaged Broccoli Florets”, **Journal of the American Society for Horticultural Science**, Vol. 25, pp. 88-90.

Sabir, F.K., 2012, “Postharvest Quality Response of Broccoli Florets to Combined Application of 1-Methylcyclopropene and Modified Atmosphere Packaging”, **Agricultural and Food Science**, Vol. 21, pp. 421-429.

Saitanis, C.J., Riga-Karandinos, A.N. and Karandinos, M.G., 2001, “Effects of Ozone on Chlorophyll and Quantum Yield of Tobacco (*Nicotiana tabacum* L.) Varieties”, **Chemosphere**, Vol. 42, pp. 945-953.

Saltveit, M.E., 1997, “Physical and Physiological Changes in Minimally Processed Fruits and Vegetables, In **Phytochemistry of fruit and vegetables**, Tomás-Barberán, F.A., (Ed.), Oxford University Press, New York, USA., pp. 205-220.

Saltveit, M.E., 2003, “Fresh-Cut Vegetables”, In **Postharvest Physiology and Pathology of Vegetables**, 2nd ed., Bartz, J.A. and Brecht, J.K. (Eds.), Marcel Dekker, Inc., New York, USA., pp. 691-712.

Saltveit, M.E., 2004, “Respiratory Metabolism”, In **The Commercial Storage of Fruits, Vegetable and Florist and Nursery crop**, Gross, K.C., Wang, C.Y. and Saltveit, M.E. (Eds.), Agriculture Handbook Number 66, U.S. Department of Agriculture, Agricultural Research Service, Beltsville, M.D., [Online], Available: www.ba.ars.usda.gov/hb66/019respiration.pdf [2011, March 24].

Sapers, G.M., 2001, “Efficacy of Washing and Sanitizing Methods”, **Food Technology and Biotechnology**, Vol. 39, pp. 305-311.

Sapers, G.M., 2003, "Washing and Sanitizing Raw Materials for Minimally Processed Fruit and Vegetable Products", In **Microbial Safety of Minimally Processed Foods**, Novak, J.S., Sapers, G.M. and Juneja, V.K. (Eds.), CRC Press, Taylor and Francis, Boca Raton, FL, pp. 221-253.

Sapers, G.M., 2006, "Washing and Sanitizing Treatments for Fruits and Vegetables", In **Microbiology of Fruits and Vegetables**, Saper, G.M., Gorny, J.R. and Yousef, A.E. (Eds.), CRC Press, Taylor and Francis, Boca Raton, FL, pp. 375-400.

Saranraj, P., Stella, D. and Reetha, D., 2012, "Microbial Spoilage of Vegetables and Its Control Measures: A Review", **International Journal of Natural Product Science**, Vol. 2, pp. 1-12, [Online], Available: http://www.academia.edu/3877973/MICROBIAL_SPOILAGE_OF_VEGETABLES_AND_ITS_CONTROL_MEASURES_A_REVIEW [2012, March 24].

Scandalios, J.G., Guan, L. and Polidoros, A.N., 1997, "Catalases in Plants: Gene Structure, Properties, Regulation, and Expression", In **Oxidative Stress and the Molecular Biology of Antioxidant Defenses**, Cold Spring Harbor Laboratory Press, pp. 343-406.

Schreiner, M.C., Peters, P.J. and Krumbein, A.B., 2006, "Glucosinolates in Mixed-Packaged Mini Broccoli and Mini Cauliflower under Modified Atmosphere", **Journal of Agricultural of Food Chemistry**, Vol. 54, pp. 2218-2222.

Sela, S. and Fallik, E., 2009, "Chapter 13: Microbial Quality and Safety of Fresh Produce", In **Postharvest Handling - A Systems Approach**, 2nd ed., Florkowski, W.J., Shewfelt, R.L., Brueckner, B. and Prussia, S.E. (Eds.), A volume in Food Science and Technology, pp. 351-398.

Selma, M.V., Beltrán, D., Allende, A., Chacón-Vera, E. and Gil, M.I., 2007, "Elimination by Ozone of *Shigella sonnei* in Shredded Lettuce and Water", **Food Microbiology**, Vol. 24, pp. 492-499.

Selma, M.V., Ibáñez, A.M. Allende, A., Cantwell, M. and Suslow, T., 2008, "Effect of Gaseous Ozone and Hot Water on Microbial and Sensory Quality of Cantaloupe and Potential Transference of *Escherichia coli* O157:H7 during Cutting", **Food Microbiology**, Vol. 25, pp. 162-168.

Serrano, M., Martinez-Romero, D., Guillen, F., Castillo, S. and Valero, D., 2006, "Maintenance of Broccoli Quality and Functional Properties during Cold Storage as Affected by Modified Atmosphere Packaging", **Postharvest Biology and Technology**, Vol. 39, pp. 61-68.

Shigenaga, T., Yamauchi, N., Funamoto, Y. and Shigyo, M., 2005, "Effects of Heat Treatment on an Ascorbate-Glutathione Cycle in Stored Broccoli (*Brassica oleracea* L.) Florets", **Postharvest Biology and Technology**, Vol. 38, pp. 152-159.

Shim, I.S., Momose, Y., Yamamoto, A., Kim, D.W. and Usui, K., 2003, "Inhibition of Catalase Activity by Oxidative Stress and Its Relationship to Salicylic Acid Accumulation in Plants", **Plant Growth Regulation**, Vol. 39, pp. 285-292.

Shioi, Y., Tomita, N., Tsuchiya, T. and Takamiya, K., 1996, "Conversion of Chlorophyllide to Pheophorbide by Mg-Dechelating Substance in Extracts of *Chenopodium album*", **Plant Physiology and Biochemistry**, Vol. 34, pp. 41-47.

Siddiq, M., Akhtar, S. and Siddiq, R., 2012, "Chapter 15: Mango Processing, Products and Nutrition", In **Tropical and Subtropical Fruits: Postharvest Physiology, Processing and Packaging**, Siddiq, M., Ahmed, J., Lobo, M.G. and Ozadali, F. (Eds.), John-Wiley Publishing Co., Ames, Iowa, USA, pp. 277-298.

Sikora, E., Cieslik, E., Leszczynska, T., Filipiak-Florkiewicz, A. and Pisulewski, P.M., 2008, "The Antioxidant Activity of Selected Cruciferous Vegetables Subjected to Aquathermal Processing", **Food Chemistry**, Vol. 107, pp. 55-59.

Singh, B.K., Sharma, S.R., Singh, B., 2009, "Combining Ability for Superoxide Dismutase, Peroxidase and Catalase Enzymes in Cabbage Head (*Brassica oleracea* var. *capitata* L.)", **Scientia Horticulturae**, Vol. 122, pp. 195-199.

Singh, J., Upadhyay, A.K., Prasad, K., Bahadur, A. and Rai, M., 2007, "Variability of Carotenes, Vitamin C, E and Phenolics in *Brassica* Vegetables", **Journal of Food Composition and Analysis**, Vol. 20, pp. 106-112.

Singh, N., Singh, R.K., Bhunia, A.K. and Stroshine, R.L., 2002, "Effect of Inoculation and Washing Methods on the Efficacy of Different Sanitizers Against *Escherichia coli* O157:H7 on Lettuce", **Food Microbiology**, Vol. 19, pp. 183-193.

Singleton, V.L. and Rossi, J.A., Jr., 1965, "Colorimetry of Total Phenolics with Phosphomolybdic-phosphotungstic Acid Reagents", **American Journal of Enology and Viticulture**, Vol. 16, pp. 144-158.

Siomos, A.S., Gerasopoulos, D. and Tsouvaltzis, P., 2005, "Prestorage Hot Water Treatments Inhibit Postharvest Anthocyanin Synthesis and Retain Overall Quality of White Asparagus Spears", **Postharvest Biology and Technology**, Vol. 38, pp. 160-168.

Sipahi, R.E., Castell-Perez, M.E., Moreira, R.G., Gomes, C. and Castillo, A., 2013, "Improved Multilayered Antimicrobial Alginate-Based Edible Coating Extends the Shelf Life of Fresh-Cut Watermelon (*Citrullus lanatus*)", **LWT – Food Science and Technology**, Vol. 51, pp. 9-15.

Smith, I.K., Vierheller, T.L. and Thorne, C.A., 1989, "Properties and Functions of Glutathione Reductase in Plants", **Physiologia Plantarum**, Vol. 77, pp. 449-456.

Soliva-Fortuny, R.C. and Martín-Belloso, O., 2003, "New Advances in Extending the Shelf Life of Fresh-Cut Fruits: A Review", **Trends in Food Science and Technology**, Vol. 14, pp. 341-353.

Stachelin, J. and Hoigné, J., 1985, "Decomposition of Ozone in Water in the Presence of Organic Solutes Acting as Promoters and Inhibitors of Radical Chain Reactions", **Environmental Science and Technology**, Vol. 19, pp. 1206-1213.

Stringer, S.C., Plowman, J. and Peck, M.W., 2007, "The Microbiological Quality of Hot Water-Washed Broccoli Florets and Cut Green Beans", **Journal of Applied Microbiology**, Vol. 102, pp. 41-50.

Suslow, T.V., 2004, **Ozone Applications for Postharvest Disinfection of Edible Horticultural Crops**, University of California – Division of Agriculture and Natural Resources, Oakland, Page 8. (Publication 8133)

TACFS-9016 (Thai Agricultural Commodity and Food Standard), 2007, **Principles for the Establishment and Application of Microbiological Criteria for Foods**, National Bureau of Agricultural Commodity and Food Standards, Ministry of Agriculture and Cooperatives, Thailand, pp. 1-7.

Terada, M., Watanabe, Y., Kunitomo, M. and Hayashi, E., 1978, "Differential Rapid Analysis of Ascorbic and Ascorbic acid 3-Sulfate by Dinitrophenylhydrazine", **Analytical Biochemistry**, Vol. 84, pp. 604-608.

Terai, H., Kanou, M., Mizuno, M. and Tsuchida, H., 1999, "Inhibition of Yellowing and Ethylene Production in Broccoli Florets Following High Temperature Treatment with Hot Air", **Journal of Food Processing and Preservation**, Vol. 25, pp. 221-227.

Thaipong, K., Boonprakob, U., Crosby, K., Cisneros-Zevallos, L. and Byrne, D.H., 2006, "Comparison of ABTS, DPPH, FRAP and ORAC Assays for Estimating Antioxidant Activity from Guava Fruit Extracts", **Journal of Food Composition and Analysis**, Vol. 19, pp. 669-675.

Tian, M.S., Davies, L., Downs, C.G., Liu, X.F. and Lill, R.E., 1995, Effects of Florets Maturity, Cytokinin, and Ethylene on Yellowing of Broccoli After Harvest", **Postharvest Biology and Technology**, Vol. 6, pp. 29-40.

Tian, M.S., Woolf, A.B., Bowen, J.H. and Ferguson, I.B., 1996, "Changes in Color and Chlorophyll Fluorescence of Broccoli Florets Following Hot Water Treatment", **Journal of the American Society for Horticultural Science**, Vol. 121, pp. 310-313.

Toivonen, P.M.A. and Beveridge, T.H.J., 2005, "Maturity, Ripening, and Quality Relationships", In **Produce Degradation Pathways and Prevention**, Lamikanra, O., Imam, S. and Ukuku, D. (Eds.), CRC Press, Taylor and Francis, Boca Raton, FL, pp. 55-77.

Toivonen, P.M.A. and DeEll, J.R., 2001, "Chlorophyll Fluorescence, Fermentation Product Accumulation, and Quality of Stored Broccoli in Modified Atmosphere Packages and Subsequent Air Storage", **Postharvest Biology and Technology**, Vol. 23, pp. 61-69.

Toivonen, P.M.A. and Sweeney, M., 1997, "Differences in Chlorophyll Loss at 13 °C for Two Broccoli (*Brassica oleracea* L.) Cultivars Associated with Antioxidant Enzymes Activities", **Journal of Agricultural and Food Chemistry**, Vol. 46, pp. 20-24.

Ukuku, D.O., 2006, “Effect of Sanitizing Treatments on Removal of Bacteria from Cantaloupe Surface and Recontamination with *Salmonella*”, **Food Microbiology**, Vol. 23, pp. 289-293.

Vallejo, F., Tomas-Barberan, F.A. and Garcia-Viguera, C., 2002, “Potential Bioactive Compounds in Health Promotion from Broccoli Cultivars Grown in Spain”, **Journal of the Science of Food and Agriculture**, Vol. 82, pp. 1293-1297.

Veitch, N.C., 2004, “Structural Determinants of Plant Peroxidase Function”, **Phytochemistry Reviews**, Vol. 3, pp. 3-18.

Vicente, A.R., Manganaris, G.A., Sozzi, G.O. and Crisosto, C.H., 2009, “Nutritional Quality of Fruits and Vegetables”, In **Postharvest Handling: A Systems Approach**, 2nd ed., Florkowski, W.J., Shewfelt, R.L., Brueckner, B. and Prussia, S.E. (Eds.), Elsevier Inc., USA., pp. 57-106.

Vicente, A.R., Martínez, G.A., Chaves, A.R. and Civello, P.M., 2006, “Effect of Heat Treatment on Strawberry Fruit Damage and Oxidative Metabolism during Storage”, **Postharvest Biology and Technology**, Vol. 40, pp. 116–122.

Viña, S.Z., Olivera, D.F., Marani, C.M., Ferreyra, R.M., Mugridge, A., Chaves, A.R. and Mascheroni, R.H., 2007, “Quality of Brussels Sprouts (*Brassica oleracea* L. *gemmifera* DC) as Affected by Blanching Method”, **Journal of Food Engineering**, Vol. 80, pp. 218-225.

Volden, J., Bengtsson, G.B. and Wicklund, T., 2009, “Glucosinolates, L-ascorbic acid, Total phenols, Anthocyanins, Antioxidant Capacities and Colour in Cauliflower (*Brassica oleracea* L. ssp. *botrytis*); Effects of Long-Term Freezer Storage”, **Food Chemistry**, Vol. 112, pp. 967-976.

Wang, H., Feng, H. and Luo, Y., 2004, “Microbial Reduction and Storage Quality of Fresh-Cut Cilantro Washed with Acidic Electrolyzed Water and Aqueous Ozone”, **Food Research International**, Vol. 37, pp. 949-956.

Wanga, S.Y. and Ballington, J.R., 2007, “Free Radical Scavenging Capacity and Antioxidant Enzyme Activity in Deerberry (*Vaccinium stamineum* L.)”, **LWT – Food Science and Technology**, Vol. 40, pp. 1352-1361.

Watada, A.E., Ko, N.P. and Minott, D.A., 1996, "Factors Affecting Quality of Fresh-Cut Horticultural Products", **Postharvest Biology and Technology**, Vol. 9, pp. 115-125.

Welinder, K.G., 1992, "Superfamily of Plant, Fungal and Bacterial Peroxidases", **Current Opinion in Structural Biology**, Vol. 2, pp. 388-393.

Wen, H.W., Chung, H.P., Wang, Y.T., Hsieh, P.C., Lin, I.H. and Chou, F.I., 2008, "Efficacy of Gamma Irradiation for Protection Against Postharvest Insect Damage and Microbial Contamination of Adlay", **Postharvest Biology and Technology**, Vol. 50, pp. 208-215.

Xu, L., 1999, "Use of Ozone to Improve the Safety of Fresh Fruits and Vegetables", **Food Technology**, Vol. 53, pp. 58-61.

Yamauchi, N., Harada, K. and Watada, A.E., 1997, "In Vitro Chlorophyll Degradation in Stored Broccoli (*Brassica oleracea* L. var. *italica* Plen.) Florets", **Postharvest Biology and Technology**, Vol. 12, pp. 239-245.

Yousuf, P.Y., Hakeem, K.U.R., Chandna, R. and Ahmad, P., 2012, "Chapter 8: Role of Glutathione Reductase in Plant Abiotic Stress", In **Abiotic Stress Responses in Plants: Metabolism, Productivity**, Ahmad, P. and Prasad, M.N.V. (Eds.), Springer Science, Business Media, LLC., pp. 149-158.

Yuk, H.G., Yoo, M.Y., Yoon, J.W., Marshall, D.L. and Oh, D.H., 2007, "Effect of Combined Ozone and Organic Acid Treatment for Control of *Escherichia coli* O157:H7 and *Listeria monocytogenes* on Enoki Mushroom", **Food Control**, Vol. 18, pp. 548-553.

Zhang, L., Lu, Z., Yu, Z. and Gao, X., 2005, "Preservation of Fresh-Cut Celery by Treatment of Ozonated Water", **Food Control**, Vol. 16, pp. 279-283.

Zhuang, H., Barth, M.M. and Hankinson, T.R., 2003, "Microbial Safety, Quality, and Sensory Aspects of Fresh-Cut Fruits and Vegetables", In **Microbial Safety of Minimally Processed Foods**, Novak, J.S., Saper, G.M., and Juneja, V.K. (Eds.), CRC Press, Taylor and Francis, Boca Raton, FL, pp. 255-278.

Zielinski, H., Ceglinska, A. and Michalska, A., 2007, "Antioxidant Contents and Properties as Quality Indices of Rye Cultivars", **Food Chemistry**, Vol. 104, pp. 980-988.