

Publications

Published Work in Refereed Journals

Deniston, M.F., **Hassan, B.H.** and Merson, R.L. "Heat Transfer Coefficients to Liquid with Food Particles in Axially Rotating Cans". *J. Food Sci.*, 1987, 52(4):962-966, 979.

Al-Kahtani, H.A. and **Hassan, B.H.** "Spray Drying of Roselle (*Hibiscus sabdariffa* L.) Extract". *J. Food Sci.*, 1990, 55(4):1073-1076.

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Hassan, B.H. "Viscosity Models for Single Strength and Concentrated Date-Water Extract". *Bull. Faculty of Agriculture, Cairo University*, 1991, 42 (3): 753-772.

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Ewaidah, E.H. and **Hassan, B.H.** "Prickly Pear Sheets: A New Fruit Product". *International J. of Food Sci. and Technol.*, 1992, 27(3):353-358.

Hobani, A.I.; **Hassan, B.H.**; and Al-Khalifah, A.S. "Pilot Scale Freeze-Drying of Pomegranate Juices and Roselle Extracts". *Misr Journal of Agricultural Engineering, Egypt* 1996, 13(2): 363-375.

Hassan, B.H. and Hobani, A.I. "Flow Properties of Roselle (*Hibiscus sabdariffa* L.) Extract". *Journal of Food Engineering, England*, 1998, 35:459-470.

Hassan, B.H. and Hobani, A.I. "Cake Filtration Characteristics of Date Paste-Water Suspensions Under Constant Pressure Conditions". *Canadian Agricultural Engineering*, 1994, 36(2): 143-149.

Hassan, B.H. and Alhamdan, A.M. "Heat of Sorption of Water in Date Pastes". *Emirates Journal of Agricultural Sciences, United Arab Emirates*, 1998, 10: 1-15.

Alhamdan, A.M. and **Hassan, B.H.** "Water Sorption Isotherms of Date Pastes as influenced by Date Cultivar and Storage Temperature". *Journal of Food Engineering, England*, 1999, 39: 301-306.

Hassan, B.H. and Hobani, A.I. "Thin Layer Drying of Dates". *Journal of Food Process Engineering, USA*, 2000, 23(3):177-189.

Hassan, B.H. and Hobani, A.I. “Thermal Diffusivity of Date Paste”. International Agricultural Engineering Journal, Asian Association for Agricultural Engineering, Thailand. 2001, 10(1& 2): 81-90.

Hobani, A.I. and **Hassan, B.H.** “Specific Heat and Thermal Conductivity of Date Paste”. United Arab Universities Journal of Agric. Sci, Egypt. 2001, 9(2): 677-687.

Hassan, B.H. “Water Sorption Isotherms of Karkadeh Calyces and Powder”. Alexandria Journal of Agricultural Research, 2002, 45(3):107-120.(in Arabic).

Hassan, B.H. and Hobani, A.I. “Flow Properties of Date Paste Suspensions”. Journal of King Saud University (Agricultural Sciences), 2002, 14(1): 43-54.

Hassan, B.H. “Moisture Sorption Characteristics of Dried Date Powder”. Journal of King Saud University (Agricultural Sciences), 2002, 14 (2): 101-108.

Hassan, B.H. “Some Engineering Aspects of Rutab Freezing”. Journal of King Saud University (Agricultural Sciences), 2003, 15 (1): 57-74. (in Arabic).

Alhamdan, A.M.; **Hassan, B.H.**, and Elansari, A.M “Comparison Between Some Physical Properties of Some Date Cultivars”. Egyptian Journal of Agricultural Engineering. Accepted for Publication (Editor letter dated Jan., 30, 2003). (in Arabic).

Alhamdan, A.M.; **Hassan, B.H.**, and Elansari, A.M “Estimation of Some Engineering Properties of Four Saudi Date Cultivars”. Egyptian Journal of Agricultural Engineering. Accepted for Publication (Editor letter dated Jan., 30, 2003). (in Arabic).

Research Papers Presented at Conferences and Symposiums

A- The First Symposium of the Saudi Society for Agricultural Sciences (SSAS), held at the College of Agriculture, King Saud University, Riyadh, 5-7, February, 2002.

(A-1) Alhamdan, A .M, **Hassan, B.H.**, and Elansary, A .2002. Physical properties of some Saudi date cultivars.

(A-2) Alhamdan, A .M and **Hassan, B.H.** 2002. Basic mechanical properties of compression for some Saudi dates cultivars at their Khalal and Rutab stages of maturity.

(A-3) **Hassan, B.H** and Alhamdan, A.M. 2002. Stress relaxation of dates at the khalal and Rutab stages of maturity.

(A-4) **Hassan, B.H** and Alhamdan, A.M. 2002. Texture profile analysis of dates at the khalal, Rutab, and Tamr stages of maturity.

B- International Conference on Date Palm. College of Agriculture and Veterinary Medicine, King Saud University, Kaseem Branch, 16-19/9/2003.

(B-1) Alhamdan, A. M, **Hassan, B.H.** " Mechanical Compression Properties of Some Saudi Date Pastes". (in Arabic).

C-The Second Symposium of the Saudi Society for Agricultural Sciences (SSAS), Titled " Opportunities and Challenges" , held at the College of Agriculture, King Saud University, Riyadh, 22-24, February,2005.

(C-1) **Hassan, B.H** and Alhamdan, A.M.2005. Comparison of creep-recovery of dates at the Balah and Rutab stages of maturity

(C-2) Alhamdan, A. M and **Hassan, B.H.**2005. Viscoelasticity of date tissue at Balah stage of maturity.

(C-3) Al-Towaijri, I.M, **Hassan, B.H,** and Alhumaidah, A.S.2005. Color removal of Sufri date juice using ion exchange and adsorption resins.

(C-4) **Hassan, B.H,** Alhamdan, A.M, Alkahtani, H.A, and Ismail, S. M. 2005. Thermal properties of some Saudi date cultivars as a function of temperature.

(C-5) Alhamdan, A.M, **Hassan, B.H,** Alkahtani, H.A, and Ismail, S. M. 2005. Comparison of three pilot scale Rutab freezing systems

D- Conference on Postharvest Technology and Quality Management in Arid Tropics, held at Sultan Qaboos University, Muscat, Sultanate of Oman. 31, January-2, February,2005)

(D-1) Alhamdan, A.M and **Hassan, B.H.** 2005. Shear and penetration forces of date pastes of eight cultivars. International

(D-2) Alhamdan, A.M and **Hassan, B.H.** 2005. Physical properties of four popular Saudi date cultivars.

E- The Fourth Saudi Conference on Food and Nutrition, Saudi Society for Food & Nutrition, King Saud University, held at King Fahad Cultural Center , Riyadh, Kingdom of Saudi Arabia, 10-12, December,2006.

(E-1) **Hassan, B.H.** 2006. Active and Smart Food Packaging Technologies. An invited Presentation.

F- The Fourth Symposium on Date Palm in Saudi Arabia. Date Palm Research Center King Fahad University, Al-Hassa, Kingdom of Saudi Arabia, 5-8 May, 2007.

(F-1) Al-Soail, A.S, **Hassan, B.H**, and Alhamdan, A.M. 2007. Influence of Moisture Content and Temperature on Mechanical Properties of Date Compression.

(F-2) **Hassan, B.H**, and Alhamdan, A.M. 2007. Viscoelastic Properties of Whole date Fruits and their Pastes.

Unrefereed works

Hassan, B.H.1988.Possibilities of industrial scale date processing in Saudi Arabia. In: Extension Book of Palms and Dates, Agricultural Extension Center, College of Agriculture, King Saud University, Pp 145-156.

Hassan, B.H.1992.Post harvest operations for green houses products. Proceedings of the First Saudi Symposium on Protected Agriculture, 25-27,February,1992, College of Agriculture, King Saud University, Riyadh.

Hassan,B.H.2000.Some engineering aspects of date processing. A lecture presented during the scientific meeting on Date Processing. The meeting was organized by Kaseem chamber of commerce and industry and the Saudi Society of Agricultural Sciences, and was held at Kaseem Agricultural Technical College, November,8, 2000.

Hassan,B.H.2000.Production of date dibbs and high fructose date sugar at an industrial scale level. The meeting was organized Workshop on engineering and production hurdles facing the date industrial sector in the Kingdom. The workshop was organized by the Department of agricultural Engineering, College of agriculture, King Saud University, February,14, 2001.