



Curriculum vitae

Apellido: CHIRIFE

Nombre: JORGE



PRODUCCION

■ PUBLICACIONES - Artículos publicados en revistas:

ROSA BAEZA; VIRGICIA SÁNCHEZ; GABRIEL SALIERNO; FABRICIO MOLINARI; PAULA LÓPEZ; ROCHA PARRA; JORGE CHIRIFE. Storage stability of anthocyanins in freeze-dried elderberry pulp using low proportions of encapsulating agents. *FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL.*: SAGE PUBLICATIONS LTD. 2020 vol.27 n°. p135 - 144. issn 1082-0132.

IZMARI JASEL ALVAREZ GAONA; MARTIN FANTONE; SANTIAGO SARI; MARIELA ASSOF; DOLORES PEREZ; CLARA ZAMORA; JORGE CHIRIFE. Spray-dried Ancellotta red wine: natural colorant with potential for food applications. *EUROPEAN FOOD RESEARCH AND TECHNOLOGY.*: SPRINGER. 2019 vol.245 n°. p1 - 10. issn 1438-2377.

MARINA SANSINENA; MARIA VICTORIA SANTOS; JORGE CHIRIFE; NOEMÍ ZARITZKY. In-vitro development of vitrified warmed bovine oocytes after activation may be predicted based on mathematical modelling of cooling and warming rates during vitrification ?. *REPRODUCTIVE BIOMEDICINE ONLINE.*: REPRODUCTIVE HEALTHCARE LTD. 2018 vol.36 n°. p500 - 507. issn 1472-6483.

MARIA V. SANTOS; MARINA SANSINENA; JORGE CHIRIFE; NOEMI ZARITZKY. [PDF] de uca.edu.ar Convective heat transfer coefficients of open and closed Cryotop® systems under different warming conditions. *CRYOBIOLOGY.*: ACADEMIC PRESS INC ELSEVIER SCIENCE. 2018 vol.84 n°. p20 - 26. issn 0011-2240.

DIEGO ROCHA PARRA; JORGE CHIRIFE; CLARA ZAMORA; SONIA DE PASCUAL TERESA. Chemical Characterization of an Encapsulated Red Wine Powder and Its Effects on Neuronal Cells. *MOLECULES.*: MOLECULAR DIVERSITY PRESERVATION INTERNATIONAL-MDPI. 2018 vol.23 n°. p842 - 846. issn 1420-3049.

SANTOS, M.V; SANSINENA, M; CHIRIFE, J; ZARITZKY, N. Experimental determination of surface heat transfer coefficient in a dry ice-ethanol cooling bath using a numerical approach.. *CRYO-LETTERS.*Londres: CRYO LETTERS. 2017 vol.38 n°2. p119 - 124. issn 0143-2044.

IGLESIAS, H.A.; DIAZ BARRIOS, L.F; GALMARINI, M.; CHIRIFE JORGE. Kinetics of water sorption and sugar crystallization in freeze-dried bananas previously immersed in concentrated sucrose and trehalose solution.. *Anales de la Asociación Química Argentina.*: ASOCIACIÓN QUÍMICA ARGENTINA. 2017 vol.104 n°. p45 - 51. issn 0365-0375.

JASEL GAONA,I.; BATER,C.; ZAMORA, M.C.; CHIRIFE, J. Spray drying encapsulation of red wine: stability of total monomeric anthocyanins and structural alterations upon storage. *JOURNAL OF FOOD PROCESSING AND PRESERVATION.*: WILEY-BLACKWELL PUBLISHING, INC. 2017 vol. n°. p - . issn 0145-8892.

IZMARI ALVAREZ GAONA; DIEGO ROCHA PARRA; MARIA CLARA ZAMORA; JORGE CHIRIFE. Drying/encapsulation of red wine to produce ingredients for healthy foods. *Wine Studies.*: Page press. 2017 vol.6 n°. p15 - 21. issn 2039-4438.

ROCHA PARRA; GARCIA BURGOS DAVID; MUNSCH, S; CHIRIFE, J; ZAMORA, M.C.. Application of hedonic dynamics using multiple-sip temporal-liking and facial expression for evaluation of a new beverage. *FOOD QUALITY AND PREFERENCE.*Amsterdam: ELSEVIER SCI LTD. 2016 vol.52 n°. p153 - 159. issn 0950-3293.

ROCHA PARRA DIEGO; LANARI, M.C.; CHIRIFE JORGE; ZAMORA, MARIA CLARA. Influence of storage conditions on phenolic compounds stability,antioxidant capacity and colour of freeze-dried encapsulated wine. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 2016 vol.70 n°. p162 - 170. issn 0023-6438.

ROCHA PARRA DIEGO; GALMARINI, M.V.; CHIRIFE,J.; ZAMORA, MARIA CLARA. Influence of Information, Gender and Emotional Status for Detecting Small Differences in the Acceptance of a New Healthy Beverage?. *FOOD RESEARCH INTERNATIONAL.*: ELSEVIER SCIENCE BV. 2015 vol.76 n°06. p269 - 276. issn 0963-9969.

SANTOS, M.V; SANSINENA, M; CHIRIFE JORGE; ZARITZKY, N. Determination of Heat Transfer Coefficients for French Plastic Semen Straw Suspended in Static Nitrogen Vapor Over Liquid Nitrogen. *CRYO-LETTERS.*: CRYO LETTERS. 2015 vol.36 n°. p413 - 423. issn 0143-2044.

SANCHEZ,V.; BAEZA,R.; CHIRIFE, J. Comparison of monomeric anthocyanins and colour stability of fresh, concentrate and freeze-dried encapsulated cherry juice stored at 38°C. *Journal of Berry Research.*: IOS PRESS. 2015 vol.5 n°. p243 - 251. issn 1878-5093.



- SANTOS, MV; SANSINENA, M.; CHIRIFE, J; ZARITZKY, N.. Determination of heat transfer coefficients in plastic French straws plunged in liquid nitrogen. *CRYOBIOLOGY*.: ACADEMIC PRESS INC ELSEVIER SCIENCE. 2014 vol.69 n°3. p488 - 495. issn 0011-2240.
- SANTOS, MV; SANSINENA, M; ZARITZKY, N; CHIRIFE, J. Mathematical prediction of freezing times of bovine semen in straws placed in static vapor over liquid nitrogen. *CRYOBIOLOGY*.: ACADEMIC PRESS INC ELSEVIER SCIENCE. 2013 vol.66 n°. p30 - 37. issn 0011-2240.
- GALMARINI, M.V.; MAURY, CHANTAL; SANCHEZ, VIRGINIA; BAEZA, ROSA; ZAMORA, MARIA CLARA; CHIRIFE JORGE. Stability of Individual Phenolic Compounds and Antioxidant Activity During Storage of a Red Wine Powder. *FOOD AND BIOPROCESS TECHNOLOGY*.Berlin: SPRINGER. 2013 vol. n°. p1 - 11. issn 1935-5130.
- SANTOS, MV; SANSINENA, M; ZARITZKY, N; CHIRIFE, J. How important are internal temperature gradients in french straws during freezing of bovine sperm in nitrogen vapor?. *CRYO-LETTERS*.: CRYO LETTERS. 2013 vol.34 n°. p158 - 165. issn 0143-2044.
- SANCHEZ,V.; BAEZA,R.; GALMARINI,M; ZAMORA, M.C.; CHIRIFE, J. Freeze-Drying Encapsulation of Red Wine Polyphenols in an Amorphous Matrix of Maltodextrin.. *FOOD AND BIOPROCESS TECHNOLOGY*.Berlin: SPRINGER. 2013 vol.6 n°. p1350 - 1354. issn 1935-5130.
- SANSINENA, M; SANTOS,M.V.; ZARITZKY, N; CHIRIFE, J. Comparison of heat transfer in liquid and slush nitrogen by numerical simulation of cooling rates for French straws used for sperm cryopreservation.. *THERIOGENOLOGY*.Amsterdam: ELSEVIER SCIENCE INC. 2012 vol.8 n°. p1717 - 1721. issn 0093-691X.
- SANTOS, MV; SANSINENA, M; ZARITZKY, N; CHIRIFE, J. Assessment of the heat transfer coefficient during oocyte vitrification in liquid and slush nitrogen using numerical simulations to determine cooling rates. *CRYO-LETTERS*.: CRYO LETTERS. 2012 vol.33 n°. p31 - 40. issn 0143-2044.
- SANSINENA, M; SANTOS, MV; ZARITZKY, N; CHIRIFE, J. Numerical simulation of cooling rates in vitrification systems used for oocyte cryopreservation. *CRYOBIOLOGY*.: ACADEMIC PRESS INC ELSEVIER SCIENCE. 2011 vol.63 n°. p32 - 37. issn 0011-2240.
- SANCHEZ,V.; BAEZA,R.; GALMARINI, M.V.; ZAMORA, M.C.; CHIRIFE, J. Comparison of the viscosity of trehalose and sucrose solutions at various temperatures and effect of guar gum addition. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY*.Amsterdam: ELSEVIER SCIENCE BV. 2011 vol.44 n°. p186 - 189. issn 0023-6438.
- GALMARINI,; VAN BAREN, CATALINA; CHIRIFE, JORGE; ZAMORA, MARIA CLARA; DI LEO LIRA, PAOLA; BANDONI, A.. Impact of trehalose, sucrose and/or maltodextrin addition on aroma retention in freeze dried strawberry puree. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY*.: WILEY-BLACKWELL PUBLISHING, INC. 2011 vol.46 n°. p1337 - 1345. issn 0950-5423.
- CHIRIFE, J; SANSINENA, M; GALMARINI, M.; ZAMORA, M.C.. Physicochemical Changes and Sensory Characterization of a Balsamic Vinegar Dressing at Different °Brix. *FOOD AND BIOPROCESS TECHNOLOGY*.: SPRINGER. 2011 vol.4 n°. p1505 - 1511. issn 1935-5130.
- SOSA, NATALIA; ZAMORA, M.C.; CHIRIFE, J; SCHEBOR, C.. Spray drying encapsulation of citral in sucrose or trehalose matrices: Physicochemical and sensory characteristics. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY*.: WILEY-BLACKWELL PUBLISHING, INC. 2011 vol.46 n°. p2096 - 2102. issn 0950-5423.
- SANCHEZ,V.; BAEZA,R.; CIAPPINI,C.; ZAMORA, M.C.; CHIRIFE, J. Comparison between Karl Fischer and refractometric method for moisture content in honey. *FOOD CONTROL*.Amsterdam: ELSEVIER SCI LTD. 2010 vol.21 n°. p339 - 341. issn 0956-7135.
- GALMARINI, M.V.; ZAMORA, M.C.; CHIRIFE, J. Gustatory reaction time and time intensity measurements of. *Journal Sensory Studies*.: Wiley Periodicals Inc. 2010 vol.24 n°. p166 - 182. . eissn 1745-459X
- BAEZA,R.; PEREZ, A.; SANCHEZ,V.; ZAMORA, M.C.; CHIRIFE, J. Evaluation of Norrish's Equation for correlating the water activity. *FOOD AND BIOPROCESS TECHNOLOGY*.Berlin: SPRINGER. 2010 vol.3 n°. p87 - 92. issn 1935-5130.
- SANSINENA, M; SANTOS, MV; ZARITZKY, N; BAEZA,R.; CHIRIFE, J. Theoretical prediction of the effect of heat transfer parameters on cooling rates of liquid-filled plastic straws used for cryopreservation of spermatozoa. *CRYO-LETTERS*.: CRYO LETTERS. 2010 vol.31 n°. p120 - 129. issn 0143-2044.
- PEREZ, A.; BAEZA,R.; SANCHEZ,V.; ZAMORA, M.C.; CHIRIFE, J. Literature review on linear regression equations for relating water activity to moisture content in floral honeys: Development of a weighted average equation.. *FOOD AND BIOPROCESS TECHNOLOGY*.Berlin: SPRINGER. 2009



vol.2 n°. p437 - 440. issn 1935-5130.

GALMARINI, M.; SCHEBOR, C.; ZAMORA, M.C.; CHIRIFE, J. The effect of trehalose, sucrose, and maltodextrin addition on physicochemical and sensory aspects of freeze-dried strawberry puree. *Int. J. Food Sci. & Technology*.: Wiley. 2009 vol.44 n°. p1869 - 1876. issn 1365-2621.

BAEZA,R.; ROSSLER,C.; MILENICKI,D.; ZAMORA, M.C.; CHIRIFE, J. Theoretical modelling of *Staphylococcus aureus* growth in a cooked meat product left at ambient temperature using temperature profiles of selected Mexican cities. *CIENCIA E TECNOLOGIA DE ALIMENTOS*.: SOC BRASILEIRA CIENCIA TECNOLOGIA ALIMENTOS. 2009 vol.29 n°. p1 - 4. issn 0101-2061.

PEREZ, A.; SANCHEZ,V.; BAEZA, ROSA; ZAMORA, M.C.; CHIRIFE, J. Literature review on linear regression equations for relating water activity to moisture content in floral honeys: Development of a weighted average equation. *FOOD AND BIOPROCESS TECHNOLOGY*.: SPRINGER. 2009 vol.2 n°. p437 - 440. issn 1935-5130.

GALMARINI,M; ZAMORA, M.C.; BABY,M.C.; CHIRIFE, J; MESINA,V.. Aromatic profiles of spray dried encapsulated orange flavours .: *Int J Food Sci Technol*.: Wiley. 2008 vol.43 n°. p1569 - 1576. . eissn 1365-2621

GALMARINI, M.V.; CHIRIFE, J; ZAMORA, M.C.. Determination and correlation of the water activity of unsaturated,. *LWT Food Science & Technology*.: Elsevier. 2008 vol.41 n°. p628 - 631. . eissn 0023-6438

BAEZA, ROSA; MIELNICKI, DIANA; ZAMORA, MARIA CLARA; CHIRIFE, JORGE. Effect of environmental daily temperature on the prediction of non-enzymatic browning over one year storage. *FOOD CONTROL*.: ELSEVIER SCI LTD. 2007 vol.18 n°. p1532 - 1537. issn 0956-7135.

BUSSO CASATI, CAROLINA; SCHEBOR,CAROLINA; ZAMORA, MARIA CLARA; CHIRIFE, JORGE. "Glass transition temperatures and some physical and sensory changes in stored spray-dried encapsulated flavors. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY*.: ELSEVIER SCIENCE BV. 2007 vol.40 n°10. p1792 - 1797. issn 0023-6438.

BAEZA, ROSA; ROSSLER, CRISTIONA, E.; MIELNICKI,DIANA,M.; ZAMORA, MARIA CLARA; CHIRIFE, JORGE. Simplified prediction of *Staphylococcus aureus* growth in a cooked meat product exposed to changing environmental temperatures in warm climates. *REVISTA ARGENTINA DE MICROBIOLOGIA*.: ASOCIACION ARGENTINA MICROBIOLOGIA. 2007 vol.39 n°. p237 - 242. issn 0325-7541.

ZAMORA, MARIA CLARA; CHIRIFE, JORGE; ROLDÁN, DANA; . On the nature of the relationship between water activity and %. *FOOD CONTROL*.: ELSEVIER SCI LTD. 2006 vol.17 n°. p642 - 647. issn 0956-7135.

ZAMORA, MARIA CLARA; CHIRIFE, JORGE; . Determination of water activity change due to crystallization in honeys from Argentina. *FOOD CONTROL*.: ELSEVIER SCI LTD. 2006 vol.17 n°. p59 - 64. issn 0956-7135.

CHIRIFE, JORGE; ZAMORA, MARIA CLARA; . The correlation between water activity and % moisture in honey : application to Argentine honeys. *JOURNAL OF FOOD ENGINEERING*.: ELSEVIER SCI LTD. 2006 vol.72 n°. p287 - 291. issn 0260-8774.

SCHEBOR, C.; BUERA, M.P.; CHIRIFE, J. Glassy state in relation to the thermal inactivation of the enzyme invertase in amorphous dried matrices of trehalose, maltodextrin and PVP. *JOURNAL OF FOOD ENGINEERING*.: ELSEVIER SCI LTD. 2006 vol.30 n°. p269 - 273. issn 0260-8774.

ESPINOSA,L.; SCHEBOR, C.; BUERA, M.P.; MORENO,S.; CHIRIFE, J. Inhibition of trehalose crystallization by cytoplasmic yeast components. *CRYOBIOLOGY*.: ACADEMIC PRESS INC ELSEVIER SCIENCE. 2006 vol.52 n°. p157 - 160. issn 0011-2240.

ESPINOZA, L.; SCHEBOR, C.; NUDELMAN, S; CHIRIFE, J.. Stability of enzymes and proteins in dried glassy systems: effect of sunlight simulated conditions. *Biotechnology Progress*.: Wiley. 2004 vol.20 n°. p1220 - 1224. . eissn 1520-6033

FERNANDEZ, E.C.; SCHEBOR, C.; CHIRIFE, J.. Glass transition temperature of regular and hydrolyzed milk powder. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY*.Amsterdam: ELSEVIER SCIENCE BV. 2003 vol.23 n°. p547 - 551. issn 0023-6438.

BURIN, L.; BUERA, M.P.; HOUGH, G.; CHIRIFE, J. Thermal resistance of *b*-galactosidase in dehydrated dairy model systems as affected by physical and chemical changes. *FOOD CHEMISTRY*.: ELSEVIER SCI LTD. 2002 vol.76 n°. p423 - 430. issn 0308-8146.

NUÑEZ, LIDIA; DAQUINO, MIGUEL; CHIRIFE, J.. Antifungal properties of clove oil (*Eugenia caryophylata*) in sugar solution. *BRAZILIAN JOURNAL OF MICROBIOLOGY*.Sao Paulo: SOC



BRASILEIRA MICROBIOLOGIA. 2001 vol.32 n°. p123 - 126. issn 1517-8382.

HOUGH, G.; BUERA, M.P.; CHIRIFE, J.. Sensory texture of commercial biscuits as a function of water activity. *JOURNAL OF TEXTURE STUDIES.*: WILEY-BLACKWELL PUBLISHING, INC. 2001 vol.32 n°. p . issn 0022-4901.

TIMMERMANN, E.O.; IGLESIAS, H.A.; CHIRIFE JORGE. Water sorption isotherms of foods and foodstuffs : BET or GAB constants ?. *JOURNAL OF FOOD ENGINEERING.*: ELSEVIER SCI LTD. 2001 vol.48 n°. p19 - 31. issn 0260-8774.

MAZZOBRE, F.; BURIN, L.; SCHEBOR, C.; CHIRIFE, J. Relevamiento del pH y la actividad de agua de conservas en escabeche y otras similares de elaboración artesanal/doméstica en relación al riesgo potencial para el crecimiento de Clostridium botulinum. *REVISTA ARGENTINA DE MICROBIOLOGÍA.*: ASOCIACION ARGENTINA MICROBIOLOGIA. 2000 vol.32 n°. p63 - 70. issn 0325-7541.

SCHEBOR, C.; CHIRIFE JORGE. A survey of water activity and pH values in fresh pasta packed under modified atmosphere manufactured in Argentina and Uruguay. *JOURNAL OF FOOD PROTECTION.*: INT ASSOC FOOD PROTECTION. 2000 vol.63 n°. p965 - 969. issn 0362-028X.

GALVAGNO,M.; BUERA, M.P.; SCHEBOR, C.; CHIRIFE JORGE. Glass transition temperatures and fermentative activity of commercial active dry yeasts. *Biotechnology Progress.*: Wiley. 2000 vol.16 n°. p163 - 168. . eissn 1520-6033

IGLESIAS, H.A.; SCHEBOR, C.; BUERA, M.P.; CHIRIFE, J. Sorption isotherm and calorimetric behavior of amorphous/crystalline raffinose-water systems. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 2000 vol.65 n°. p646 - 650. issn 0022-1147.

SCHEBOR, C.; BURIN, L.; BUERA, M.P.; CHIRIFE JORGE. Stability to hydrolysis and browning of trehalose, sucrose and raffinose in low-moisture systems in relation to their use as protectants of dry biomaterials. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1999 vol.32 n°. p481 - 485. issn 0023-6438.

BUERA, M.P.; ROSSI,S.; MORENO,S.; CHIRIFE,J.. DSC confirmation that vitrification is not necessary for stabilization of enzyme EcoRI in dried, amorphous, saccharide matrices. *BIOTECHNOLOGY PROGRESS.*: AMER CHEMICAL SOC. 1999 vol.15 n°. p577 - 580. issn 8756-7938.

SCHEBOR, C.; BUERA, M.P.; KAREL, M.; CHIRIFE, J. Color formation due to non-enzymatic browning in amorphous, glassy, anhydrous model systems. *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY.*: AMER CHEMICAL SOC. 1999 vol.65 n°. p427 - 432. issn 0021-8561.

BUERA, M.P.; JOUPPILA,K.; ROSS, Y.; CHIRIFE, J. Differential scanning calorimetry glass transition temperatures of white bread and mold growth in the putative glassy state. *CEREAL CHEMISTRY.*: AMER ASSOC CEREAL CHEMISTS. 1998 vol. n°. p64 - 69. issn 0009-0352.

SCHEBOR, C.; BURIN, L.; BUERA, M.P.; AGUILERA, J.M.; CHIRIFE, J. Glassy state and thermal inactivation of invertase and lactase in dried, amorphous matrices. *BIOTECHNOLOGY PROGRESS.*: AMER CHEMICAL SOC. 1997 vol.13 n°. p857 - 861. issn 8756-7938.

CHIRIFE, J; BUERA, M.P.. A simple model for predicting the viscosity of sugar and oligosaccharide solutions. *JOURNAL OF FOOD ENGINEERING.*: ELSEVIER SCI LTD. 1997 vol.33 n°. p221 - 226. issn 0260-8774.

ROSSI,S.; BUERA, M.P.; MORENO,S.; CHIRIFE, J. Stabilization of the restriction enzyme EcoR1 dried with trehalose and other selected glass-forming solutes. *BIOTECHNOLOGY PROGRESS.*: AMER CHEMICAL SOC. 1997 vol.13 n°. p609 - 616. issn 8756-7938.

BONELLI,P.; SCHEBOR, C.; CUKIERMAN, A.I.; BUERA, M.P.; CHIRIFE, J. Residual moisture content as related to collapse of freeze-dried sugar matrices. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1997 vol.62 n°. p693 - 695. issn 0022-1147.

SCHEBOR, C.; BURIN, L.; CHIRIFE, J. Water activity of wrapped chocolate tablets and caramel jam-filled chocolate bars marketed in Argentina. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1997 vol.30 n°. p222 - 226. issn 0023-6438.

MAZZOBRE, F.; BUERA, M.P.; CHIRIFE, J. Glass transition and thermal stability of lactase in low-moisture amorphous polymeric matrices. *BIOTECHNOLOGY PROGRESS.*: AMER CHEMICAL SOC. 1997 vol.13 n°. p195 - 198. issn 8756-7938.

IGLESIAS, H.A.; CHIRIFE, J; BUERA, M.P.. Adsorption isotherm of amorphous trehalose. *J. Sci. Food and Agriculture.*: Wiley. 1997 vol.75 n°. p183 - 186. issn 1097-0010.



- BUERA, M.P.; CHIRIFE, J. Estabilidad química de alimentos deshidratados y su relación con la transición vítreo. *Anales Sociedad Científica Argentina.*: Anales Sociedad Científica Argentina. 1997 vol.227 n°. p51 - 71. issn 0037-8437.
- MAZZOBRE, F.; BUERA, M.P.; CHIRIFE, J. Protective role of trehalose on thermal stability of lactase in relation to its glass and crystal forming properties and effect of delaying crystallization. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1997 vol.30 n°. p324 - 329. issn 0023-6438.
- CARDONA,S.; SCHEBOR, C.; BUERA, M.P.; KAREL, M.; CHIRIFE, J. Thermal stability of invertase in reduced-moisture amorphous matrices in relation to glassy state and trehalose crystallization. *Journal of Food Science.*: IFT. 1997 vol.62 n°. p105 - 112. issn 1750-3841.
- CHIRIFE, J. ISOPOW VI : Conference report. *TRENDS IN FOOD SCIENCE & TECHNOLOGY (REGULAR ED.).*: ELSEVIER SCIENCE LONDON. 1996 vol.7 n°. p333 - 333. issn 0924-2244.
- CHIRIFE, J; BUERA, M.P.. Water activity, water/glass dynamics and the control of microbiological growth in foods. *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION.*: TAYLOR & FRANCIS INC. 1996 vol.36 n°. p465 - 513. issn 1040-8398.
- CHIRIFE, J; GONZALEZ,H.H.; RESNIK,S.L.. On water dynamics and germination time of mold spores in concentrated sugar and polyol solutions. *FOOD RESEARCH INTERNATIONAL.*: ELSEVIER SCIENCE BV. 1996 vol.28 n°. p531 - 535. issn 0963-9969.
- CHIRIFE, J; BUERA, M.P.. A critical review of some non-equilibrium situations and glass transitions on water activity values of foods in the microbiological growth range. *JOURNAL OF FOOD ENGINEERING.*: ELSEVIER SCI LTD. 1995 vol.25 n°. p531 - 552. issn 0260-8774.
- BUERA, M.P.; CHIRIFE, J; KAREL, M.. A study of acid-catalyzed sucrose hydrolysis in an amorphous polymeric matrix at reduced moisture contents. *FOOD RESEARCH INTERNATIONAL.*: ELSEVIER SCIENCE BV. 1995 vol.28 n°. p359 - 364. issn 0963-9969.
- SCHEBOR, C.; BUERA, M.P.; CHIRIFE, J; KAREL, M.. Research Note : Sucrose hydrolysis in a glassy starch matrix. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1995 vol.28 n°. p245 - 248. issn 0023-6438.
- IGLESIAS, H.A.; CHIRIFE, J. An alternative to the G.A.B. model for the mathematical description of moisture sorption isotherms of foods. *FOOD RESEARCH INTERNATIONAL.*: ELSEVIER SCIENCE BV. 1995 vol.28 n°. p317 - 321. issn 0963-9969.
- CHIRIFE, J; BUERA, M.P.. A critical review : Water activity, glass transition and microbial stability in concentrated /semimoist food systems. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1994 vol.59 n°. p921 - 925. issn 0022-1147.
- WELTI CHANES, J.; TAPIA, M.S.; AGUILERA, J.M.; CHIRIFE, J; PARADA, E.; LOPEZ MALO, LC; CORTE,P.. Classification of intermediate moisture foods consumed in Ibero-America. *REVISTA ESPANOLA DE CIENCIA Y TECNOLOGIA DE ALIMENTOS.*: CSIC, España. 1994 vol.34 n°. p53 - 58. issn 1131-799X.
- TAPIA, M.S.; AGUILERA, J.M.; CHIRIFE, J; PARADA, E.; WELTI CHANES, J.. Identification of microbial stability factors in traditional intermediate moisture foods from Latin America and Spain. *REVISTA ESPANOLA DE CIENCIA Y TECNOLOGIA DE ALIMENTOS.*: CSIC. 1994 vol.35 n°. p124 - 129. issn 1131-799X.
- AGUILERA, J.M.; CHIRIFE, J. Combined methods for the preservation of foods in Latin America and the CYTED-D Program. *JOURNAL OF FOOD ENGINEERING.*: ELSEVIER SCI LTD. 1994 vol.22 n°. p433 - 440. issn 0260-8774.
- ALZAMORA, S.M.; GERSCHENSON,L.N.; CHIRIFE, J. Determination and correlation of the water activity of propylene glycol solutions?. *FOOD RESEARCH INTERNATIONAL.*: ELSEVIER SCIENCE BV. 1994 vol.27 n°. p65 - 67. issn 0963-9969.
- CHIRIFE, J. Physicochemical aspects of food preservation by combined factors. *FOOD CONTROL.*: ELSEVIER SCI LTD. 1993 vol.4 n°. p210 - 215. issn 0956-7135.
- CHIRIFE, J. Letters : No magic in magic trick. *FOOD TECHNOLOGY (CHICAGO).*: INST FOOD TECHNOLOGISTS. 1993 vol. n°. p80 - 80. issn 0015-6639.
- BALLESTEROS, S.A.; CHIRIFE, J; BOZZINI, J.P.. Specific solute effect on *Staphylococcus aureus* cells subjected to reduced water activity. *INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY.*: ELSEVIER SCIENCE BV. 1993 vol.20 n°. p51 - 56. issn 0168-1605.
- CHIRIFE, J; HERZAGE,L.; JOSEPH, A.; KOHN,E.. Effect of potassium sorbate and pH on the survival *Staphylococcus aureus* in saturated sugar solutions. *REVISTA ARGENTINA DE MICROBIOLOGÍA.*: ASOCIACION ARGENTINA MICROBIOLOGIA. 1993 vol.25 n°. p80 - 85. issn 0325-7541.



- HOUGH, G.; CHIRIFE, J; ALZAMORA, S.M.. A simple model for osmotic dehydration of apples. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1993 vol.26 n°. p151 - 156. issn 0023-6438.
- ALZAMORA, S.M.; CHIRIFE, J; BRIOZZO, J.. On the improvement of thiamine retention during thermal processing of low-acid foods. *Anales Asociación Química Argentina.*: Asociación Química Argentina. 1992 vol.80 n°. p479 - 484. issn 0365-7124.
- BALLESTEROS, S.A.; CHIRIFE, J; BOZZINI,J.P.. Antibacterial effects and cell morphological changes produced in *Staphylococcus aureus* subjected to low ethanol concentrations. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1992 vol.58 n°. p435 - 438. issn 0022-1147.
- CHIRIFE, J; TIMMERMANN, O.E.; IGLESIAS, H.A.. Some features of the parameter k of G.A.B. equation as applied to sorption isotherms of selected food materials. *JOURNAL OF FOOD ENGINEERING.*: ELSEVIER SCI LTD. 1992 vol.15 n°. p75 - 82. issn 0260-8774.
- CHIRIFE, J; NUÑEZ, L.; BALLESTEROS, S.A.; BOZZINI, J.P.; HERSZAGE, L.. Estudios sobre la acción bactericida del aceite de clavo de olor dispersado en una solución concentrada de azúcar. *REVISTA ARGENTINA DE MICROBIOLOGÍA.*: ASOCIACION ARGENTINA MICROBIOLOGIA. 1992 vol.24 n°. p32 - 35. issn 0325-7541.
- CHIRIFE, J; FAVETTO,G.. Some physico-chemical basis of food preservation by combined methods. *FOOD RESEARCH INTERNATIONAL.*: ELSEVIER SCIENCE BV. 1992 vol.25 n°. p389 - 396. issn 0963-9969.
- CHIRIFE, J; IGLESIAS, H.A.. Estimation of the precision of isosteric heats of sorption from the temperature dependence of food isotherms. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1992 vol.25 n°. p83 - 84. issn 0023-6438.
- LARUMBE,A.; GONZÁLEZ,H.H.; RESNIK,S.L.; CHIRIFE, J. Moisture migration and mold growth in a composite chocolate product. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1991 vol.24 n°. p307 - 310. issn 0023-6438.
- CAMPOS,C.; GERSCHENSON,L.N.; ALZAMORA, S.M.; CHIRIFE, J. Determination of sorbic acid in raw beef : an improved procedure. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1991 vol.56 n°. p863 - 863. issn 0022-1147.
- LEIRAS,M.C.; CHIRIFE, J; ALZAMORA, S.M.. Development of a shelf-stable hydrolyzed concentrated cheese whey. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1991 vol.24 n°. p12 - 16. issn 0023-6438.
- TIMMERMANN, E.O.; CHIRIFE, J. The physical state of water sorbed at high activities in starch in terms of the G.A.B. sorption equation. *JOURNAL OF FOOD ENGINEERING.*: ELSEVIER SCI LTD. 1991 vol.13 n°. p171 - 175. issn 0260-8774.
- CHIRIFE, J; FAVETTO,G.; BALLESTEROS, S.A.; KITIC,D.. Mummification in Ancient Egypt : an old example of tissue preservation by the hurdle technology. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1991 vol.24 n°. p9 - 13. issn 0023-6438.
- LEIRAS,M.C.; CHIRIFE, J; ALZAMORA, S.M.. Prediction and measurement of the water activity of galactose solutions. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1990 vol.55 n°. p1174 - 1176. issn 0022-1147.
- CERRUTTI,P.; CHIRIFE, J; ALZAMORA, S.M.. A multi-parameter approach to control the growth of *Saccharomyces cerevisiae* in laboratory media. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1990 vol.55 n°. p837 - 840. issn 0022-1147.
- CHIRIFE, J; FAVETTO,G.; BALLESTEROS, S.A.. A curiosity : The water sorption isotherm of muscle tissue from an Egyptian mummy about 2,700 years old. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1990 vol.23 n°. p97 - 98. issn 0023-6438.
- HOUGH, G.; ALZAMORA, S.M.; CHIRIFE, J. Verification of a theoretical model for predicting leaching losses of ascorbic acid during blanching of peas. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1990 vol.23 n°. p126 - 130. issn 0023-6438.
- BUERA, M.P.; CHIRIFE, J.; RESNIK,S.L.. Non-enzymatic browning in hydrolyzed shelf-stable concentrated cheese whey. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1990 vol. n°. p697 - 700. issn 0022-1147.



BRIOLLO, J.; NUÑEZ, L.; HERSZAGE, L.; DAQUINO, M.; CHIRIFE JORGE. Antimicrobial activity of clove oil dispersed in a concentrated sugar solution.. *JOURNAL OF APPLIED BACTERIOLOGY.*: ELSEVIER SCIENCE BV. 1989 vol.66 n°. p69 - 75. issn 0021-8847.

IGLESIAS, H.A.; CHIRIFE, J; FERRO FONTAN, C.. On the temperature dependence of isosteric heats of water sorption in dehydrated foods. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1989 vol.54 n°. p1620 - 1623. issn 0022-1147.

KITIC,D.; CHIRIFE, J. Letters : A corrected Ross equation. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1989 vol.54 n°. p - . issn 0022-1147.

MAURI,L.; ALZAMORA, S.M.; CHIRIFE, J; TOMIO, M.J.. Review : Kinetic parameters for thiamine degradation in foods and model solutions of high water activity. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1989 vol.24 n°. p1 - 9. issn 0950-5423.

CHIRIFE, J; VIGO, M.S.; GÓMEZ,R.; FAVETTO,G.. Research Note :Water activity and chemical composition of mayonnaises. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1989 vol.54 n°. p1658 - 1659. issn 0022-1147.

HOUGH,G.; ALZAMORA, S.M.; CHIRIFE,J.. Effect of piece size on vitamin retention during water blanching of potato slabs. *JOURNAL OF FOOD ENGINEERING.*: ELSEVIER SCI LTD. 1988 vol.8 n°. p303 - 310. issn 0260-8774.

FAVETTO,G.; CHIRIFE JORGE; SCORZA,O.C.; HERMIDA,C.. A color changing indicator for monitoring the time-temperature history during cooking of meats. *JOURNAL OF FOOD PROTECTION.*: INT ASSOC FOOD PROTECTION. 1988 vol.51 n°. p542 - 546. issn 0362-028X.

PETRIELLA,C; CHIRIFE, J; RESNIK,S.L.; LOZANO,R.D.. Correlation between induction time and rate of browning in heated model solutions of glucose and lysine. *International J. Food Science and Technology.*: Wiley. 1988 vol.23 n°. p415 - 419. issn 1365-2621.

PETRIELLA,C; CHIRIFE, J; RESNIK,S.L.; LOZANO, R.D.. Research Note : Solute effects at high water activity on non-enzymatic browning of glucose-lysine solutions. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1988 vol.53 n°. p987 - 988. issn 0022-1147.

POLLIO,L; KITIC,D.; FAVETTO,G.; CHIRIFE, J. Research Note : A note about the correct water activity value of saturated potassium nitrate at 25 °C. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1988 vol.21 n°. p66 - 67. issn 0023-6438.

CERRUTTI,P.; ALZAMORA, S.M.; CHIRIFE, J. Research Note : Effect of potassium sorbate and sodium bisulfite on Thermal inactivation of *Saccharomyces cerevisiae* in media of lowered water activity. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1988 vol.53 n°. p1911 - 1912. issn 0022-1147.

KITIC,D.; POLLIO,L; FAVETTO,G.; CHIRIFE, J. Mixed saturated salt solutions as reference standards for measurement of water activity. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1988 vol.53 n°. p578 - 581. issn 0022-1147.

KITIC,D.; CHIRIFE, J. Technical Note : A criticism to a method for predicting the water activity of multicomponent mixtures of solutes and non-solutes. *Int. J. Food Sci. and Technology.*: Wiley. 1988 vol.23 n°. p199 - 200. . eissn 1365-2621

MAURI,L.; RESNIK,S.L.; TOMIO, M.J.; CHIRIFE, J. Kinetics of thiamine loss in model food systems of high water activity. *Anales de la Asociación Química Argentina.*: ASOCIACIÓN QUÍMICA ARGENTINA. 1987 vol.75 n°. p43 - 48. issn 0365-0375.

AGUERRE,R.; GABITTO, J.F.; CHIRIFE, J. Shape factors for the analysis of diffusion in air drying of grains. *Int. J. Food Sci. and Technology.*: Wiley. 1987 vol.22 n°. p701 - 705. . eissn 1365-2621

KITIC,D.; CHIRIFE, J. Letter to Editor : A note on a corrected Ross equation. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1987 vol.52 n°. p - . issn 0022-1147.

BUERA, M.P.; CHIRIFE, J; RESNIK,S.L.; LOZANO, R.D.. Non-enzymatic browning in liquid model systems of high water activity. 3.Kinetics of color changes due to reaction between glucose and glycine peptides. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1987 vol.52 n°. p1068 - 1070. issn 0022-1147.

BUERA, M.P.; CHIRIFE, J; RESNIK,S.L.; WETZLER,G. Non-enzymatic browning in liquid model systems of high water activity. 2. Kinetics of color changes due to Maillard reaction between different single sugars and glycine and comparison with. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1987 vol.52 n°. p1063 - 1067. issn 0022-1147.



- BUERA, M.P.; CHIRIFE, J; RESNIK,S.L.; WETZLER,G.. Non enzymatic browning in liquid model systems of high water activity. 1. Kinetics of color changes due to caramelization of various single sugars. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1987 vol.52 n°. p1059 - 1063. issn 0022-1147.
- KITIC,D.; POLLIO,L; FAVETTO,G.; CHIRIFE, J. Research Note : Prediction and measurement of water activity of selected saturated salt solutions at 5 °C and 10 °C. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1987 vol.52 n°. p1118 - 1119. issn 0022-1147.
- BRIOZZO, J.; BASUALDO,R.; CARRERA,P.A.; ALZAMORA, S.M.; CHIRIFE, J. Improvement of thiamine retention in canned low-acid foods through pH adjustment. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1987 vol.52 n°. p827 - 829. issn 0022-1147.
- POLLIO,L; CHIRIFE, J; RESNIK,S.L.. Water sorption isotherms of soybeans varieties grown in Argentina. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1987 vol.22 n°. p335 - 338. issn 0950-5423.
- GERSCHENSON,L.N.; ALZAMORA, S.M.; CHIRIFE, J. Short Communication : Effect of sodium chloride and glycerol on the stability of sorbic acid solutions at reduced water activity. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1987 vol.20 n°. p98 - 100. issn 0023-6438.
- BUERA, M.P.; CHIRIFE, J; RESNIK,S.L.; LOZANO, R.D.. Research Note :Effect of potassium sorbate on color changes in a glucose-glycine suistem of high water activity. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1987 vol.19 n°. p491 - 493. issn 0023-6438.
- CHIRIFE, J. Die bedentung der wasseraktivitat fur die konservierung von lebensmitteln. *Lebensmittelanalytik.*: SPRINGER. 1987 vol.7 n°. p87 - 91. issn 0937-7433.
- KITIC,D.; RESNIK,S.L.; CHIRIFE, J.. Research Note : Solutions of lithium chloride as reference sources of water activity above 0.6 and between 5 °C and 45 °C.. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1986 vol.19 n°. p272 - 273. issn 0023-6438.
- KITIC,D.; FAVETTO,G.; CHIRIFE, J. Measurement of water activity in the intermediate moisture range with the Novasina Thermoconstanter meter. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1986 vol.19 n°. p297 - 300. issn 0023-6438.
- VAAMONDE,G.; SCARMATO,G.; CHIRIFE, J; PARADA, J.L.. Inhibition of *Staphylococcus aureus* growth in laboratory media of water activity adjusted with less usual solutes. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1986 vol.19 n°. p403 - 405. issn 0023-6438.
- BOZZINI,J.P.; KOHN, E.S.; JOSEPH,A.; HER SZAGE,L.; CHIRIFE,J.. Submicroscopical changes in *Klebsiella pneumoniae* cells treated with concentrated sucrose and polyethylene glycol 400 solutions. *JOURNAL OF APPLIED BACTERIOLOGY.*: Wiley. 1986 vol.60 n°. p375 - 379. issn 0021-8847.
- POLLIO,L; KITIC,D.; FAVETTO,G.; CHIRIFE, J.. Research Note : Effectiveness of available filters for an electric hygrometer for measurement of water activity in the food industry. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1986 vol.51 n°. p1358 - 1359. issn 0022-1147.
- GERSCHENSON,L.N.; ALZAMORA, S.M.; CHIRIFE, J. Technical Note : Kinetics of sorbic acid loss during storage of peaches preserved by combined factors. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1986 vol.21 n°. p517 - 519. issn 0950-5423.
- KANTEREWICSZ, R.J.; CHIRIFE JORGE. Color changes and available lysine during storage of shelf-stable concentrated cheese whey. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1986 vol.51 n°. p826 - 828. issn 0022-1147.
- GERSCHENSON,L.N.; ALZAMORA, S.M.; CHIRIFE, J. Stability of sorbic acid in model food systems of reduced water activity : sugar solutions. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1986 vol.51 n°. p1028 - 1031. issn 0022-1147.
- KITIC,D.; PEREIRA JARDIM,D.C.; FAVETTO,G.; RESNIK,S.L.; CHIRIFE, J.. Theoretical prediction of the water activity of standard saturated salt solutions at various temperatures. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1986 vol.51 n°. p1037 - 1041. issn 0022-1147.
- IGLESIAS, H.A.; CHIRIFE, J; FERRO FONTAN, C.. Temperature dependence of water sorption isotherms of some foods. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1986 vol.51 n°. p551 - 553. issn 0022-1147.



- VAAMONDE,G.; CHIRIFE, J. Effect of phosphate buffer on *Staphylococcus aureus* growth at reduced water activities. *INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY.*: ELSEVIER SCIENCE BV. 1986 vol.3 n°. p51 - 55. issn 0168-1605.
- BRIOLLA, J.; LAGARDE, E.A.; CHIRIFE, J; PARADA, J.L.. Effect of water activity and pH on growth and toxin production by *Clostridium botulinum* type G. *APPLIED AND ENVIRONMENTAL MICROBIOLOGY.*: AMER SOC MICROBIOLOGY. 1986 vol. n°. p844 - 848. issn 0099-2240.
- CHIRIFE, J; IGLESIAS, H.A.; SUÁREZ,C.. Calculation of the heat of water sorption in foods on the basis of B.E.T. theory. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1986 vol.21 n°. p103 - 107. issn 0950-5423.
- KANTEREWICSZ, R.J.; CHIRIFE, J. Research Note : Determination and correlation of the water activity of cheese whey solutions. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1986 vol.51 n°. p227 - 229. issn 0022-1147.
- CHIRIFE, J. El agua y sus interrelaciones con los constituyentes de los alimentos.. *Alimentos.*: INTA, Chile. 1986 vol.11 n°2. p35 - 45. issn 0716-9604.
- KANTEREWICSZ, R.J.; LAGARDE, E.A.; CHIRIFE JORGE. Preservation of concentrated cheese whey by combined factors. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1985 vol.51 n°. p1629 - 1632. issn 0022-1147.
- FAVETTO,G.; CHIRIFE, J. Simplified method for the prediction of water activity in binary aqueous solutions. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1985 vol.20 n°. p631 - 636. issn 0950-5423.
- RESNIK,S.L.; CHIRIFE, J; FERRO FONTAN, C.. Sulfuric acid solutions as reference sources of water activity at various temperatures. *Zeitschrift für Lebensrecht.*: Ko & In : Juristen-Vereinigung Lebensrecht. 1985 vol.6 n°. p428 - 431. issn 0944-4521.
- CHIRIFE, J; RESNIK,S.L.; FERRO FONTÁN, C.. Application of Ross equation for prediction of water activity in intermediate moisture food systems containing a non-solute solid. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1985 vol.20 n°. p773 - 779. issn 0950-5423.
- BRIOLLA, J.; LAGARDE, E.A.; CHIRIFE, J; PARADA, J.L.. Effect of potassium sorbate on *Clostridium botulinum* growth and toxin production in model systems of processed cheese. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1985 vol.20 n°. p383 - 385. issn 0950-5423.
- AGUERRE,R.; GABITO,J.F.; CHIRIFE, J. The utilization of Ficks second law for the evaluation of diffusion coefficients in food process controlled by internal diffusion. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1985 vol.20 n°. p623 - 629. issn 0950-5423.
- PETRIELLA,C; RESNIK,S.L.; LOZANO, R.D.; CHIRIFE, J. Kinetics of deteriorative reactions in model food system of high water activity : color changes due to non-enzymatic browning. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1985 vol.50 n°. p622 - 626. issn 0022-1147.
- HOUGH, G.; ALZAMORA, S.M.; CHIRIFE, J. Mathematical prediction of leaching losses of water soluble vitamins during blanching of peas. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1985 vol.20 n°. p251 - 262. issn 0950-5423.
- GERSCHENSON,L.N.; FAVETTO,G.; CHIRIFE, J. Influence of organic volatiles during water activity measurement with a fiber-dimensional hygrometer. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1984 vol.17 n°. p342 - 344. issn 0023-6438.
- SUAREZ,C.; LONCIN, M.; CHIRIFE, J. A preliminary study on the effect of ethyl oleate dipping treatment on drying rate of corn. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1984 vol.49 n°. p236 - 238. issn 0022-1147.
- VAAMONDE,G.; SCARMATO,G.; CHIRIFE, J. Inhibition of *Staphylococcus aureus* growth in laboratory media of water activity adjusted with polyethylene glycols. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1984 vol. n°. p296 - 297. issn 0022-1147.
- FAVETTO,G.; RESNIK,S.L.; CHIRIFE, J. Sensor contamination with organic volatiles during water activity measurement with an electric hygrometer. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1984 vol. n°. p514 - 515. issn 0022-1147.
- RESNIK,S.L.; FAVETTO,G.; CHIRIFE, J; FERRO FONTAN, C.. A world survey of water activity of selected saturated salt solutions used as standards at 25 °C. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1984 vol. n°. p510 - 513. issn 0022-1147.



- ALZAMORA, S.M.; CHIRIFE, J. The water activity of 1,3 and 2,3 butylene glycol solutions. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1984 vol.17 n°. p268 - 270. issn 0023-6438.
- CHIRIFE, J; RESNIK,S.L.. Unsaturated solutions of sodium chloride as reference sources of water activity at several temperatures. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1984 vol.49 n°. p1486 - 1488. issn 0022-1147.
- FERRAMONDO, V.; CHIRIFE, J; PARADA, J.L.; VIGO, M.S.. Chemical and microbiological studies in dulce de leche a typical Argentine confectionery product. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1984 vol.49 n°. p821 - 823. issn 0022-1147.
- IGLESIAS, H.A.; CHIRIFE, J. Technical Note: Correlation of B.E.T. monolayer moisture content with temperature. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1984 vol.19 n°. p503 - 506. issn 0950-5423.
- CHIRIFE, J; FAVETTO,G.; FERRO FONTÁN, C.. Microbial growth at reduced water activities : some physico-chemical properties of compatible solutes. *JOURNAL OF APPLIED BACTERIOLOGY.*: Society for Applied Bacteriology. 1984 vol.56 n°. p259 - 268. issn 0021-8847.
- POLLIO,L; CHIRIFE, J; RESNIK,S.L.. Adsorption isotherms of Argentine varities of sunflower seeds. *Intern. Zeitschrift fur Lebensm.-Technol.u. Verfahrenstechnik.*: SPRINGER. 1984 vol.6 n°. p480 - 484. issn 0341-2938.
- CHIRIFE, J; HER SZAGE, L.; JOSEPH, A.; BOZZINI, J.P.; LEARDINI, N.; KOHN, E.S.. In vitro antibacterial activity of concentrated PEG-400 solutions. *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY.*: AMER SOC MICROBIOLOGY. 1983 vol.24 n°. p409 - 412. issn 0066-4804.
- ALZAMORA, S.M.; CHIRIFE, J. Research Note : The water activity of canned foods. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1983 vol.48 n°. p1385 - 1387. issn 0022-1147.
- CHIRIFE,J.; HER SZAGE, L.; JOSEPH, A.; KOHN,E.. In vitro study of bacterial growth inhibition in concentrated sugar solutions. Microbiological basis for the use of sugar in treating infected wounds. *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY.*: AMER SOC MICROBIOLOGY. 1983 vol. n°. p766 - 773. issn 0066-4804.
- BRIOLLO, J.; CHIRIFE, J; LAGARDE, E.A.; PARADA, J.L.. Clostridium botulinum type A growth and toxin production in model systems and cheese spread. *APPLIED AND ENVIRONMENTAL MICROBIOLOGY.*: AMER SOC MICROBIOLOGY. 1983 vol.45 n°. p1150 - 1152. issn 0099-2240.
- CHIRIFE, J; ALZAMORA, S.M.; FERRO FONTAN, C.. Microbial growth at reduced water activities : studies of water activity prediction in solutions of compatible solutes. *JOURNAL OF APPLIED BACTERIOLOGY.*: Wiley. 1983 vol.54 n°. p339 - 343. issn 0021-8847.
- CHIRIFE, J; FAVETTO,G.; FERRO FONTÁN,C.; RESNIK,S.L.. The water activity of standard saturated salt solutions in the range of intermediate moisture foods. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1983 vol.16 n°. p36 - 39. issn 0023-6438.
- FAVETTO,G.; RESNIK,S.L.; CHIRIFE, J; FERRO FONTÁN, C.. Statistical evaluation of water activity measurements obtained with the Vaisala Humicap humidity meter. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1983 vol.48 n°. p534 - 538. issn 0022-1147.
- MAGRINI,C.; CHIRIFE, J; PARADA, J.L.. A study of *Staphylococcus aureus* growth in model systems and process cheese. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1983 vol.48 n°. p882 - 885. issn 0022-1147.
- CHIRIFE, J; HER SZAGE, L.. Sugar for infected wounds. *LANCET.*: ELSEVIER SCIENCE INC. 1982 vol.320 n°. p157 - 157. issn 0140-6736.
- CHIRIFE, J; SCARMATO,G.; HER SZAGE, L.. Scientific basis for use of granulated sugar in treatment of infected wounds. *LANCET.*: ELSEVIER SCIENCE INC. 1982 vol. n°. p560 - 561. issn 0140-6736.
- CHIRIFE, J. Principios de la deshidratación osmótica de frutas. *Anales de la Asociación Química Argentina.*: ASOCIACIÓN QUÍMICA ARGENTINA. 1982 vol.70 n°. p913 - 921. issn 0365-0375.
- PARADA, J.L.; CHIRIFE, J; MAGRINI,C.. Effect of BHA,BHT and potassium sorbate on *Staphylococcus aureus* growth in model systems and process cheese. *JOURNAL OF FOOD PROTECTION.*: INT ASSOC FOOD PROTECTION. 1982 vol.45 n°. p1108 - 1111. issn 0362-028X.
- CHIRIFE, J; FAVETTO,G.; FERRO FONTAN, C.. The water activity of fructose solutions in the intermediate moisture range. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1982 vol.15 n°. p159 - 161. issn 0023-6438.



- VAAMONDE,G.; CHIRIFE, J; SCORZA,O.C.. An examination of the minimal water activity for *Staphylococcus aureus* ATCC 6538 P growth in laboratory media adjusted with less conventional solutes. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1982 vol.47 n°. p1259 - 1262. issn 0022-1147.
- CHIRIFE JORGE; FAVETTO,G.; SCORZA,O.C.. The water activity of common liquid bacteriological media. *JOURNAL OF APPLIED BACTERIOLOGY.*: Wiley. 1982 vol.53 n°. p219 - 1262. issn 0021-8847.
- CHIRIFE JORGE; VAAMONDE,G.; SCARMATO, G.. On the minimal water activity for growth of *Staphylococcus aureus*. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1982 vol.47 n°. p2054 - 2057. issn 0022-1147.
- PILOSOF, A.; BARTHOLOMAI,G.; CHIRIFE, J; BOQUET,R.. Effect of heat treatment on moisture sorption isotherm and nitrogen solubility in bean flour and protein from beans, *Phaseolus vulgaris*. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1982 vol.47 n°. p1288 - 1290. issn 0022-1147.
- CHIRIFE, J; SCORZA,O.C.. Actividad de agua en salamines de elaboración nacional. *Noticiteca.*: INTI. 1982 vol.12 n°. p75 - 76. issn 0325-0164.
- FERRO FONTÁN, C.; CHIRIFE, J; SANCHO, E.; IGLESIAS, H.A.. Analysis of a model for water sorption phenomena in foods. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1982 vol.47 n°. p1590 - 1594. issn 0022-1147.
- CHIRIFE, J; FERRO FONTÁN, C.. Research Note : The water activity of fresh foods. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1982 vol.47 n°. p661 - 663. issn 0022-1147.
- VIGO, M.S.; CHIRIFE, J; SCORZA,O.C.; CATTANEO,P.; BERTONI, M.H.; SARRAILH, P.. Factores que determinan la estabilidad microbiológica de diversos alimentos húmedos de elaboración nacional. I. Determinación de actividad acuosa, pH, humedad y sólidos solubles. *Revista de Agroquímica y Tecnología de Alimentos.*: Instituto de Agroquímica y Tecnología de Alimentos. 1981 vol.21 n°. p91 - 95. issn 0034-7698.
- SUÁREZ,C.; CHIRIFE, J; VIOLLAZ,P.E.. Shape characterization for a simple diffusion analysis of air drying of grains. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1981 vol.47 n°. p97 - 100. issn 0022-1147.
- FAVETTO,G.; CHIRIFE, J; BARTHOLOMAI,G.. A study of water activity lowering during immersion-cooking of beef in sodium chloride-glycerol solutions. II. Effect of some process variables. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1981 vol.16 n°. p621 - 626. issn 0950-5423.
- CHIRIFE, J; FERRO FONTÁN, C.; VIGO, M.S.. A study of water activity prediction in molasses. *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY.*: AMER CHEMICAL SOC. 1981 vol.29 n°. p1085 - 1086. issn 0021-8561.
- ALZAMORA, S.M.; CHIRIFE, J; FERRO FONTÁN, C.. Research Note : A note on the effect of surface active agents on water activity of IM food solutions. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1981 vol.46 n°. p1974 - 1975. issn 0022-1147.
- GERSCHENSON,L.N.; BARTHOLOMAI,G.; CHIRIFE, J. Structural changes and volatile retention during heating and rehumidification of freeze-dried tomato juice. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1981 vol.46 n°. p1552 - 1556. issn 0022-1147.
- FERRO FONTÁN, C.; CHIRIFE, J; BOQUET, R.. Correlation of water activity data in multicomponent non-electrolyte solutions. *Int. J. Food Sci. and Technology.*: Institute Food Science and Technology. 1981 vol.18 n°. p553 - 558. . eissn 1365-2621
- MIRACCO, J.; ALZAMORA, S.M.; CHIRIFE, J; FERRO FONTÁN,C.. Research Note : On the water activity of lactose solutions. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1981 vol.46 n°. p1612 - 1613. issn 0022-1147.
- CHIRIFE, J; ALZAMORA, S.M.; FERRO FONTÁN,C.. Studies concerning the prediction of the intracellular water activity of bacteria grown at reduced water activity. *JOURNAL OF APPLIED BACTERIOLOGY.*: Wiley. 1981 vol.51 n°. p339 - 343. issn 0021-8847.
- CHIRIFE, J; FERRO FONTÁN, C.; SCORZA, O.C.. The intracellular water activity of bacteria in relation to water activity of the growth medium. *JOURNAL OF APPLIED BACTERIOLOGY.*: American Society of Bacteriology. 1981 vol. n°. p475 - 479. issn 0021-8847.
- FERRO FONTÁN, C.; CHIRIFE,J.; SCORZA, O.C.. Technical Note : A refinement of Ross equation for predicting the water activity of non-electrolyte mixtures. *Int. J. Food Sci. and Technol.*: Wiley. 1981 vol.16 n°. p219 - 221. issn 1365-2621.



- CHIRIFE,J.; FERRO FONTÁN, C.; BOQUET, R.. Research Note: Correlation of water activity data in whole tomato concentrates. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1981 vol.46 n°. p947 - 947. issn 0022-1147.
- CHIRIFE, J; FERRO FONTAN, C.. On the evaluation of water activity in aqueous solutions from freezing point depression. *Int J. Food Sci Technology.*: Wiley. 1981 vol.16 n°. p21 - 30. issn 1365-2621.
- CHIRIFE, J; FERRO FONTÁN, C. A Research Note : Water activity of aqueous lactulose solutions. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1981 vol.46 n°. p1612 - 1614. issn 0022-1147.
- FAVETTO,G.; CHIRIFE, J; BARTHOLOMAI, G. A study of water activity lowering in meat during immersion-cooking in sodium chloride-glycerol solutions. I. Equilibrium considerations and diffusional analysis of solute uptake. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1981 vol.16 n°. p609 - 619. issn 0950-5423.
- SUÁREZ,C.; VIOLLAZ,P.E.; CHIRIFE, J. Diffusional analysis of air drying of grain sorghum. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1980 vol.15 n°. p523 - 531. issn 0950-5423.
- ALZAMORA, S.M.; CHIRIFE, J. Some factors controlling the kinetics of moisture movement during avocado dehydration. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1980 vol.45 n°. p1649 - 1651. issn 0022-1147.
- IGLESIAS, H.A.; CHIRIFE, J; BOQUET, R.. Prediction of isotherms of food models from knowledge of component sorption behavior. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1980 vol.45 n°. p450 - 452. issn 0022-1147.
- BOQUET, R.; CHIRIFE JORGE; IGLESIAS, H.A.. Technical Note : On the equivalence of isotherm equations. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1980 vol.15 n°. p345 - 349. issn 0950-5423.
- CHIRIFE, J; FERRO FONTÁN, C; SCORZA, O.C.. The water activity of some amino acid aqueous solutions. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1980 vol.15 n°. p383 - 387. issn 0950-5423.
- CHIRIFE, J; FERRO FONTÁN, C. A study of water activity lowering behavior of polyethylene glycols in the intermediate moisture range?. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1980 vol.45 n°. p1717 - 1719. issn 0022-1147.
- CHIRIFE, J; FERRO FONTÁN, C. Prediction of water activity of aqueous solutions in connection with intermediate moisture foods : Experimental investigation of the aw lowering behavior of sodium lactate and some related compounds. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1980 vol.45 n°. p802 - 804. issn 0022-1147.
- FERRO FONTÁN,C.; BENMERGUI, E.A.; CHIRIFE, J. The prediction of water activity in aqueous solutions in connection with intermediate moisture foods. 3. aw prediction in multicomponent strong electrolytes. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1980 vol.15 n°. p47 - 58. issn 0950-5423.
- CHIRIFE, J; VIGO, M.S.; SCORZA, O.C.; BERTONI, M.H.; CATTANEO,P.. Retention of available lysine after long term storage of intermediate moisture beef formulated with various humectants. *LEBENSMITTEL-WISSENSCHAFT UND TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1980 vol.13 n°. p44 - 48. issn 0023-6438.
- BOQUET, R.; CHIRIFE, J; IGLESIAS, H.A.. Equations for fitting water sorption isotherms of foods. III. Evaluation of various three-parameter models. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1979 vol.14 n°. p527 - 534. issn 0950-5423.
- GERSCHENSON,L.N.; BARTHOLOMAI, G; CHIRIFE, J. Retention of volatile during freeze-drying of tomato juice. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1979 vol.14 n°. p351 - 360. issn 0950-5423.
- FERRO FONTÁN, C.; BENMERGUI, E.A.; CHIRIFE, J. The prediction of water activity in aqueous solutions in connection with intermediate moisture foods 2. On the choice of the best a, lowering single strong electrolyte. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1979 vol.14 n°. p639 - 646. issn 0950-5423.
- FERRO FONTÁN, C.; CHIRIFE, J; BENMERGUI, E.A.. The prediction of water activity in aqueous solutions in connection with intermediate moisture foods. 1. aw prediction in single aqueous electrolyte solutions. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1979 vol.14 n°. p625 - 637. issn 0950-5423.



- CHIRIFE, J; SCORZA, O.C.; VIGO, M.S.; BERTONI, M.H.; CATTÁNEO, P.. Preliminary studies on storage stability of intermediate moisture beef formulated with various humectants. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1979 vol.14 n°. p421 - 428. issn 0950-5423.
- ALZAMORA, S.M.; CHIRIFE, J; VIOLLAZ, P.E.. A simplified model for predicting food temperature during dehydration. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1979 vol.14 n°. p369 - 380. issn 0950-5423.
- RESNIK, S.L.; CHIRIFE, J. Effect of moisture content and temperature on some aspects of non-enzymatic browning in dehydrated apple. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1979 vol. n°. p601 - 605. issn 0022-1147.
- FAVETTO, G.; CHIRIFE, J; BARTHOLOMAI, G. Determination of moisture content in glycerol-containing intermediate moisture foods. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1979 vol.44 n°. p1258 - 1259. issn 0022-1147.
- CHIRIFE JORGE; BOQUET, R.; IGLESIAS, H.A.. The mathematical description of water sorption isotherm of foods in the high range of water activity. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1979 vol.12 n°. p150 - 151. issn 0023-6438.
- IGLESIAS, H.A.; VIOLLAZ, P.E.; CHIRIFE, J. A technique for predicting moisture transfer in mixtures of dehydrated foods. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1979 vol.14 n°. p89 - 93. issn 0950-5423.
- IGLESIAS, H.A.; CHIRIFE, J. Short communication : An equation for fitting uncommon water sorption isotherms of foods. *Can. Inst. food Sci. Technology.*: WILEY-BLACKWELL PUBLISHING, INC. 1978 vol.11 n°. p11 - 15. issn 0315-5463.
- CHIRIFE, J; IGLESIAS, H.A.; BOQUET, R.. On the utilization of B.E.T. equation to estimate the heat of water vapor sorption in foods. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1978 vol.11 n°. p222 - 225. issn 0023-6438.
- CHIRIFE, J. Prediction of water activity in intermediate moisture foods. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1978 vol.13 n°. p417 - 424. issn 0950-5423.
- BOQUET, R.; CHIRIFE, J; IGLESIAS. Equations for fitting water sorption isotherms of foods part II. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1978 vol.13 n°. p319 - 323. issn 0950-5423.
- CHIRIFE, J; IGLESIAS, H.A.. Equations for fitting water sorption isotherms of foods. Part I : A review. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1978 vol.13 n°. p159 - 174. issn 0950-5423.
- IGLESIAS, H.A.; CHIRIFE, J. Delayed sucrose recrystallization in model food systems. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1978 vol.13 n°. p137 - 144. issn 0950-5423.
- VIOLLAZ, P.E.; CHIRIFE, J; IGLESIAS, H.A.. Slopes of moisture sorption isotherms of foods as a function of moisture content. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1978 vol.43 n°. p606 - 609. issn 0950-5423.
- IGLESIAS, H.A.; CHIRIFE, J. An empirical equation for fitting water sorption isotherms of fruits and related products. *Canadian Institute Food Science and Technology Journal.*: Canadian Institute of Food Sci and Technology. 1978 vol.11 n°. p12 - 15. issn 0008-3860.
- VACCAREZZA, L.M.; CHIRIFE, J. On the evaluation of Ficks law for kinetic analysis of air drying of foods. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1978 vol.43 n°. p236 - 238. issn 0022-1147.
- CHIRIFE, J; IGLESIAS, H.A.. Efecto del contenido de agua en la estabilidad de alimentos deshidratados. *La Alimentación Latinoamericana.* Buenos Aires: Editorial Publitz. 1977 vol. n°. p56 - 61. issn 0325-3384.
- CHIRIFE, J; IGLESIAS, H.A.; BOQUET, R.. Some characteristics of the heat of water vapor sorption in dried foodstuffs. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1977 vol.12 n°. p605 - 608. issn 0950-5423.
- BOQUET, R.; CHIRIFE, J; IGLESIAS, H.A.. A criterium for the evaluation of significant differences between water sorption isotherms of a food sample subjected to different pretreatments. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1977 vol.10 n°. p246 - 248. issn 0023-6438.



IGLESIAS, H.A.; CHIRIFE JORGE; VIOLLAZ,P.E.. Evaluation of some factors useful for the mathematical prediction of moisture gain by packaged dried beef. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1977 vol.12 n°. p505 - 513. issn 0950-5423.

IGLESIAS, H.A.; CHIRIFE, J. Effect of heating in the dried state on the water sorption by beef. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1977 vol.10 n°. p249 - 252. issn 0023-6438.

IGLESIAS, H.A.; BOQUET, R.; CHIRIFE, J. On the evaluation of B.E.T. constants from the B.E.T. isotherm equation. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1977 vol.42 n°. p1387 - 1391. issn 0022-1147.

IGLESIAS, H.A.; CHIRIFE, J. Effect of fat content on the water sorption isotherm of air dried minced beef. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1977 vol. n°. p151 - 152. issn 0023-6438.

IGLESIAS, H.A.; CHIRIFE, J. Isosteric heats of water vapor sorption on dehydrated foods. Part II.Hysteresis and heat of sorption-Comparison with B.E.T. theory. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1976 vol.9 n°. p123 - 127. issn 0023-6438.

IGLESIAS, H.A.; CHIRIFE, J. Equilibrium moisture content of air-dried beef - Dependence on drying temperature. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1976 vol.11 n°. p565 - 573. issn 0950-5423.

IGLESIAS, H.A.; CHIRIFE, J. A model for describing the water sorption behavior of foods. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1976 vol.41 n°. p984 - 992. issn 0022-1147.

IGLESIAS, H.A.; CHIRIFE, J. Prediction of the effect of temperature on water sorption isotherms of food materials. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1976 vol.11 n°. p109 - 116. issn 0950-5423.

IGLESIAS, H.A.; CHIRIFE, J. Isosteric heats of water vapor sorption on dehydrated foods. Comparison with B.E.T. theory. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1976 vol.9 n°. p123 - 130. issn 0023-6438.

IGLESIAS, H.A.; CHIRIFE, J.. Isosteric heats of water vapor sorption on dehydrated foods. Part I : analysis of the differential heat curves. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1976 vol.9 n°. p116 - 122. issn 0023-6438.

IGLESIAS, H.A.; CHIRIFE, J. B.E.T. monolayer values in dehydrated foods and food components. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1976 vol. n°. p107 - 113. issn 0023-6438.

IGLESIAS, H.A.; CHIRIFE, J. Thermodynamics of water vapor sorption in sugar beet root. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1976 vol.11 n°. p91 - 111. issn 0950-5423.

IGLESIAS, H.A.; CHIRIFE, J. On the local isotherm concept and modes of moisture binding in food products. *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY.*: AMER CHEMICAL SOC. 1976 vol.24 n°. p77 - 79. issn 0021-8561.

VACCAREZZA,L.M.; CHIRIFE, J. On the mechanism of moisture transport during air drying of sugar beet root. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1975 vol.40 n°. p1286 - 1289. issn 0022-1147.

IGLESIAS, H.A.; CHIRIFE, J; LOMBARDI,J.L.. Comparison of water vapor sorption by sugar beet root components. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1975 vol.10 n°. p385 - 391. issn 0950-5423.

IGLESIAS, H.A.; CHIRIFE, J; LOMBARDI,J.L.. Water sorption isotherms in sugar beet root. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1975 vol.10 n°. p299 - 308. issn 0950-5423.

IGLESIAS, H.A.; CHIRIFE, J; LOMBARDI,J.L.. An equation for correlating equilibrium moisture content in foods. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1975 vol.10 n°. p289 - 297. issn 0950-5423.

VIOLLAZ,P.E.; VACCAREZZA,L.M.; CHIRIFE, J. Effect of pressurized gas-freezing pretreatment on the shrinkage of potatoes during air drying. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1975 vol.40 n°. p244 - 245. issn 0022-1147.



AGUILERA, J.M.; CHIRIFE, J; FLINK,J.M.; KAREL, M.. Computer simulation of non-enzymatic browning during potato dehydration. *LEBENSMITTEL-WISSENSCHAFT UND-TECHNOLOGIE-FOOD SCIENCE AND TECHNOLOGY.*: ELSEVIER SCIENCE BV. 1975 vol.8 n°. p128 - 133. issn 0023-6438.

VACCAREZZA,L.M.; LOMBARDI,J.L.; CHIRIFE, J.. Heat and mass transfer effects on drying rate of food dehydration. *The Canadian Journal of Chemical Engineering.*: Canadian Society of Chemical Engineering. 1974 vol.52 n°. p576 - 579. issn 1939-019X.

VACCAREZZA,L.M.; LOMBARDI,J.L.; CHIRIFE, J. Kinetics of moisture movement during air drying of sugar beet root. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1974 vol.9 n°. p317 - 327. issn 0950-5423.

CHIRIFE, J; KAREL, M.. Effect of structure disrupting treatments on volatile release from freeze- dried maltose. *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.*: WILEY-BLACKWELL PUBLISHING, INC. 1974 vol.9 n°. p13 - 1320. issn 0950-5423.

CHIRIFE, J; KAREL, M.. Volatile retention during freeze-drying of protein solutions. *CRYOBIOLOGY.*: ACADEMIC PRESS INC ELSEVIER SCIENCE. 1974 vol.11 n°. p107 - 115. issn 0011-2240.

CHIRIFE, J; KAREL, M.. Volatile retention during freeze-drying of aqueous suspensions of starch and cellulose. *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY.*: AMER CHEMICAL SOC. 1973 vol.21 n°. p936 - 939. issn 0021-8561.

CHIRIFE, J; KAREL, M.. Contribution of adsorption to volatile retention in a freeze-dried food model containing PVP. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1973 vol.38 n°. p768 - 771. issn 0022-1147.

CHIRIFE, J; KAREL, M.; FLINK,J.M.. Studies on mechanisms of retention of volatiles in freeze-dried food models : the system PVP-n-propanol. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1973 vol.38 n°. p574 - 674. issn 0022-1147.

CHIRIFE, J; GARDNER. R.E.. Mass transfer in through-circulation drying of packed beds. *Ind. Eng. Chem. process Des. Develop.*: ACS Journals. 1972 vol.11 n°. p312 - 313. issn 0196-4305.

CHIRIFE, J. Efectos capilares en el período de velocidad de secado constante. *Anales de la Asociación Química Argentina.*: ASOCIACIÓN QUÍMICA ARGENTINA. 1971 vol.59 n°. p427 - 433. issn 0365-0375.

CHIRIFE, J. Estudio de la deshidratación de algas marinas. *Revista de Agroquímica y Tecnología de Alimentos.* Valencia: Instituto de Agroquímica y Tecnología de Alimentos. 1971 vol.11 n°. p427 - 433. issn 0034-7698.

CHIRIFE, J. Diffusional process in the drying of tapioca root. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1971 vol.36 n°. p327 - 330. issn 0022-1147.

CHIRIFE, J; CACHERO, R.. Through circulation drying of tapioca root. *JOURNAL OF FOOD SCIENCE.*: WILEY-BLACKWELL PUBLISHING, INC. 1970 vol.35 n°. p364 - 368. issn 0022-1147.

CHIRIFE, J. El encogimiento y su influencia en la interpretación del mecanismo de secado. *Industria y Química.*: ASOCIACIÓN QUÍMICA ARGENTINA. 1969 vol.17 n°. p145 - 148. issn 0368-0819.

■ PUBLICACIONES - Partes de libro:

SANTOS, M.V; SANSINENA, M.; CHIRIFE, J; ELIZABETH HIGGINS. *Mathematical Prediction of Cooling Rates during Cryopreservation of Reproductive Cells in Liquid Nitrogen.* Liquid Nitrogen: Characteristics, Uses and Safety Concerns. New York: Nova Pub.. 2015. p33 - 44. isbn 1634837649

GALMARINI, M.V.; V. BAREN, C.M.; ZAMORA, M.C.; CHIRIFE, J; FILIP, R.. *Trehalose as a drying aid for fruits : Influence on Physical properties, sensory characteristics and volatile retention.* Multidisciplinary Approaches on Food Science and Nutrition for the XXI Century. Kerala: Transworld Research Network. 2011. p113 - 129. isbn 978-81-7895-504-9

TAPIA,M.S; ALZAMORA, S.M.; ; CHIRIFE, J; BARBOSA-CANOVAS, G.. *Effects of Water Activity on Microbial Stability – as a Hurdle in Food Preservation.* Water Activity in Foods: Fundamentals and Applications. : Wiley-Blackwell. 2007. p256 - 270.

CHIRIFE, J; FONTANA, A.J.; BARBOSA-CANOVAS, G.. *Introduction ? Historical Highlights of Water Activity Research..* Water Activity in Foods : Fundamentals and Applications. : Wiley-Blackwell. 2007. p13 - 18. isbn 978-0-8138-2408-6

CHIRIFE, J; REID, D.S.. *Physical-chemical parameters inhibiting the growth of microorganisms microorganisms?.* The Properties of Water in Foods- ISOPOW 6. : SPRINGER. 1998. p41 - 50. isbn



978-1-4613-7991-1

CARDONA,S.; CHIRIFE, J; MAZZOBRE, F.; SCHEBOR, C.; BUERA,M.P.; JOWIT,R.. *Thermal stability of enzymes in amorphous low-moisture matrices with particular reference to trehalose and role of glassy state.* Engineering and Food at ICEF 7. : Continuum International Publishing Group - Sheffie. 1997. p89 - 98. isbn 185075814X

CHIRIFE, J; BARBOSA CANOVA,G.V.; WELTI CHANES, J.. *An update on water activity measurements and prediction in intermediate and high moisture foods : The role of some non-equilibrium situations.* Food Preservation by Moisture Control ; Fundamentals and Applications. : Technomic Publishing Company. 1995. p169 - 189. isbn 1-56676-358-4

CHIRIFE, J; FITO, P.; MULET,A.; MCKENNA, B.. *Specific solute effects with special reference to *Staphylococcus aureus*.* Water in Foods. Fundamental Aspects and Their Significance in Relation to Processing of Foods. : Pergamon. 1994. p409 - 419. isbn 978-1-85861-037-5

CHIRIFE, J; BARBOSA-CANOVAS, G.; PARADA-ARIAS,. E.; AGUILERA, J.M.; BARBOSA-CANOVAS, G.; OKOS, R.M.. *CYTED-D AHI : An Ibero-American project on intermediate moisture foods and combined methods technology.* Food Dehydration. : AIChE. 1993. p72 - 78. isbn 0816904375

CHIRIFE, J; JOWITT, R.; ESCHER,F.; HALLSTROM,B.; MEFFERT, H.F; SPIESS, W.E.L.; VOS,G.. *A survey of water sorption data.* Physical Properties of Foods. : SPRINGER. 1983. p43 - 49. isbn 978-0-387-30780-0

CHIRIFE, J; BRUNELLO, G.; MUJUMDAR, A.S.. *Drying R & D in Latin American countries.* Developments in Drying. : Hemisphere Publishing Co. 1980. p16 - 20. isbn 0-89116-185-6

ALZAMORA, S.M.; CHIRIFE, J; VIOLLAZ; VACAREZZA,L.M.; MUJUMDAR, A.S.. *Heat and mass transfer during air drying of avocado.* Developments in Drying. Lancaster-Basel: Hemisphere Pub. co.. 1980. p247 - 254. isbn 0-89116-185-6

CHIRIFE, J; MUJUMDAR, A.S.. *Fundamentals of drying mechanism during air drying of foods.* Advances in Drying. : Hemisphere Pub. Co. 1979. p73 - 83.

■ **PUBLICACIONES - Libros:**

AGUILERA, J.M.; CHIRIFE, J; TAPIA, M.S.; PARADA, E.. *"Inventario de Alimentos de Humedad Intermedia Tipicos de Iberoamerica.* Mexico, DF: Instituto Politecnico Nacional. 1990. pag.250.

IGLESIAS, H.A.; CHIRIFE, J.. *Handbook of Food Isotherms.* New York: Academic Press. 1982. pag.347.

■ **PUBLICACIONES - Trabajos en eventos c-t publicados:**

SANTOS, M.V; SANSINENA, M; CHIRIFE, J; ZARITZKY, N. Modelado Matemático del proceso de criopreservación de material biológico. Argentina. Córdoba. 2014. Libro. Artículo Completo. Simposio. III Reunión Interdisciplinaria de Tecnología y Procesos Químicos.

SANTOS,M.V.; SANSINENA, MARINA; CHIRIFE, JORGE; ZARITZKI, NOEMI. DETERMINATION OF HEAT TRANSFER COEFFICIENTS OF BIOLOGICAL SYSTEMS DURING COOLING IN LIQUID NITROGEN UNDER FILM AND NUCLEATE POOL BOILING REGIME. Argentina. Buenos Aires. 2014. Revista. Artículo Completo. Congreso. Computational Modeling in Bioengineering Applications. Asociacion Argentina de Mecánica Computacional

GALMARINI, M.V.; CHIRIFE JORGE; ZAMORA, MARIA CLARA. Perfil dinámico de dulzor de soluciones de trehalosa, sacarosa y sus mezclas. Argentina. Buenos Aires. 2007. Libro. Artículo Breve. Congreso. Congreso Argentino de Ciencia y Tecnología de Alimentos. Asociación Argentina de Tecnólogos Alimentarios

BUSSO CASATI, CAROLINA; SOSA, NATALIA; SCHEBOR,CAROLINA; CHIRIFE JORGE. Observaciones visuales y microscópicas de cambios estructurales en matrices liofilizadas de azúcares: comparación entre la lactosa, sacarosa y trehalosa.. Argentina. Buenos Aires. 2007. Libro. Artículo Breve. Congreso. XI Congreso Argentino de Ciencia y Tecnología de Alimentos, CYTAL, 16.6. Septiembre, Buenos Aires, Argentina.. AATA

GALMARINI, M.V.; ZAMORA, M.C.; CHIRIFE, J. Perfil dinámico de dulzor de soluciones de trehalosa, sacarosa y sus mezclas. Argentina. Buenos Aires. 2007. Libro. Artículo Breve. Conferencia. Congreso Argentino de Ciencia y Tecnología de Alimentos. AATA

BAEZA, ROSA; MIELNICKI, D.; ROESSLER, C; CHIRIFE JORGE; ZAMORA, MARIA CLARA. Predicción del crecimiento de *Staphylococcus aureus* en un producto de carne cocida expuesto a



condiciones reales de temperatura ambiente típicas de zonas cálidas de la Argentina.. Argentina. La Plata. 2006. Libro. Artículo Breve. Congreso. I Congreso Panamericano, V Congreso Argentino, II Congreso Bonaerense de Zoonosis. Congreso Bonaerense de Zoonosis

BUSSO CASATI, CAROLINA; CHIRIFE JORGE; ZAMORA, MARIA CLARA. Estabilidad de Aromas Encapsulados: Relación entre cambios Físicos/Estructurales y la Retención del Aroma Evaluada Sensorialmente. Argentina. Mar del Plata. 2005. Libro. Artículo Breve. Congreso. X Congreso Argentino de Ciencia y Tecnología de Alimentos. AATA

CHIRIFE, J. Requerimientos de Investigación y desarrollo sobre transferencia de calor y materia en preservación de alimentos. Argentina. Buenos Aires. 1985. Revista. Artículo Breve. Workshop. Cuadernos del CAMAT IV. CONICET

SUÁREZ,C.; VIOLLAZ,P.E.; CHIRIFE, J. Kinetic analysis of air drying of soybeans. Canadá. New York. 1980. Libro. Artículo Completo. Congreso. Proc. Second Int. Symp. on Drying, Montreal, Canadá, Drying 80".

CHIRIFE, J; FERRO FONTÁN,C.. Considerations regarding the water activity of aqueous solutions in connection with the formulation of intermediate moisture foods. Finlandia. Helsinki. 1979. Libro. Artículo Completo. Congreso. Proc. 2nd Int. Congress on Engng. and Food.

CHIRIFE, J; GARDNER. R.. Características de secado de algas de la especie *Macrocystis pyrifera*. España. Madrid. 1969. Revista. Artículo Completo. Simposio. Proceddings Int. seaweed Symposium.

■ PUBLICACIONES - Tesis:

Universitario de posgrado/doctorado. *Transferencia de masa y calor en el secado de lechos llenos por circulación transversal de aires*. Doctor en Ciencias Químicas. UNIVERSIDAD NACIONAL DE LA PLATA (UNLP). 1969. Español

■ PUBLICACIONES - Demás producciones c-t publicados:

CHIRIFE JORGE. *Desarrollo de una bebida saludable a partir de los polifenoles del vino tinto*. Traducciones publicadas como artículos en revistas. Español. Argentina. Buenos Aires. 2014

CHIRIFE, J; WELTI, J.; ARGAIZ, A.. *Predicción de la actividad del agua en alimentos*. Material Didáctico Sistematizado. Español. México. 1988

CHIRIFE, J. *Preservación de carnes mediante el salado*. Revista Ingeniería e Industria. Español. Argentina. 1982

■ DESARROLLOS TECNOLOGICOS, ORGANIZACIONALES Y SOCIO-COMUNITARIOS - Desarrollo de productos, procesos productivos y sistemas tecnológicos

Tipo de Producto

Denominación del desarrollo:

Proceso de preservación de carnes

Descripción del proyecto:

Se desarrolló un proceso de preservación de carne cocida que no requiere refrigeración. Para ello la carne cruda se cocina en una solución que contiene sal, glicerina y sorbato de potasio en las proporciones adecuadas. La preservación del producto se debe a una combinación de factores, principalmente reducción de la actividad de agua (aw).

Año de 1983 URL:

Área del conocimiento: Ciencias Biológicas

Sub-área del conocimiento: Biología Celular, Microbiología

Campo Energía-Otros

Especialidad:

Palabra

Autor **Chirife, J, Scorz, O.C., Favetto, G.**

Función desempeñada en el equipo de	Porcentaje	33
-------------------------------------	------------	----

Desarrollo con Si

Posee título con propiedad Si

Transferencia de la No



Moneda:

Monto total:

Institución	Ejecuta	Evaluá	Adopta	Demand	Promuev	% Financ.
CONSEJO NACIONAL DE INVESTIGACIONES CIENTIFICAS Y TECNICAS (CONICET)	No	No	No	No	No	100

Tipo protección	País	Fecha solicitud	Estado
Patente de invención		1983-12-06	Otorgado

Tipo de **Producto**

Denominación del desarrollo:

Time-temperature integrating indicator for monitoring the cooking process of packaged meats in the temperature range Of 85-100 degrees Celsius

Descripción del proyecto:

Un integrador tiempo temperatura basado en cambios de color producidos por la reacción de Maillard permite la verificación de la historia térmica durante la cocción a 85-100 °Cde carne en un envase flexible hermético.

Año de **1987** URL:

Área del conocimiento: **Ciencias Químicas**

Sub-área del conocimiento: **Físico-Química, Ciencia de los Polímeros, Electroquímica**

Campo **Energía-Térmica**

Especialidad:

Palabra

Autor **Favetto,G., Chirife, J, Scorza, O.C., Hermida,C.**

Función desempeñada en el equipo de Porcentaje **25**

Desarrollo con **Si**

Posee título con propiedad **Si**

Transferencia de la **No**

Moneda: Monto total:

Institución	Ejecuta	Evaluá	Adopta	Demand	Promuev	% Financ.
FRIGORIFICO RIOPLATENSE	No	No	No	No	No	100

Tipo protección	País	Fecha solicitud	Estado
Patente de invención		1987-03-13	Otorgado