

## Summary of Publications

Professor Hak-Kim Chan, PhD, DSc

### Summary of Publications

#### Original Articles in refereed journals

No	Publication
1	Lin MT, Ho LT and <b>Chan H-K</b> (1983) Effects of oxytocin and (1-penicillamine, 4-threonine) oxytocin on thermoregulation in rats. <i>Neuropharmacology</i> 22, 1007-1013.
2	Lin MT, Wang TI and <b>Chan H-K</b> (1983) A prostaglandin adrenergic link occurs in the hypothalamic pathways which mediate the fever induced by vasopressin in rats. <i>Journal of Neural Transmission</i> 56: 21-31.
3	Lin MT, <b>Chan H-K</b> and Teh GW (1983) Involvement of both opiate and catecholaminergic receptors in the behavioral excitation provoked by thyrotropin-releasing hormones: Comparisons with amphetamine. <i>Neuropharmacology</i> 22: 463-469.
4	Lin MT, Uang WN and <b>Chan H-K</b> (1984) Hypothalamic neuronal responses to iontophoretic application of morphine in rats. <i>Neuropharmacology</i> 23: 591-594.
5	Lin MT, Uang WN and <b>Chan H-K</b> (1985) Both thermal and nociceptive afferents influences the unit activity of the neurones in the corpus striatum. <i>Experientia</i> 41: 120-122. [ <i>Journal name is now "Cellular and Molecular Life Sciences"</i> ]
6	Fois RA, <b>Chan H-K</b> and Gonda I (1986) Tonicity of some commonly used drug preparations for nebulisation. <i>Australian Journal of Hospital Pharmacists</i> 16: 19-21.
7	Hambley TW, <b>Chan H-K</b> and Gonda I (1986) The crystal and molecular structure of methotrexate. <i>Journal of American Chemist Society</i> 108: 2103-2105.
8	Aroney MJ, Hambley TW, Patsalides E, Pierens RK, <b>Chan H-K</b> and Gonda I (1987) Hexamethylmelamine: A study of solvation and crystallisation. <i>Journal of Chemist Society, Perkin Transaction II</i> 1987: 1747-1752.
9	<b>Chan H-K</b> and Gonda I (1988) Development of systematic theory of suspension inhalation aerosols. II. Aggregates of monodisperse particles nebulised in polydisperse droplets. <i>International Journal of Pharmaceutics</i> 41: 147-157.
10	<b>Chan H-K</b> and Gonda I (1989) Serendipitous preparation of crystals of methotrexate and attempts to modify its crystal habit. <i>Journal of Crystal Growth</i> 94: 488-498.
11	<b>Chan H-K</b> and Gonda I (1989) Aerodynamic properties of a solid form of cromoglycic acid. <i>Journal of Aerosol Science</i> 20: 157-168.
12	<b>Chan H-K</b> and Gonda I (1989) Respirable form of crystals of cromoglycic acid. <i>Journal of Pharmaceutical Sciences</i> 78: 176-180.
13	<b>Chan H-K</b> and Grant DJW (1989) Influence of compaction on the intrinsic dissolution rate of modified acetaminophen and adipic acid crystals. <i>International Journal of Pharmaceutics</i> 57: 117-124.
14	<b>Chan H-K</b> , Gonda I and McLachlan A (1990) Studies of the mechanism of crystal growth of hexamethylmelamine: I. Solute-solvent interaction. <i>Journal of Crystal Growth</i> 104: 355-364.
15	<b>Chan H-K</b> and Gonda I (1991) Methotrexate: existence of different types of solid. <i>International Journal of Pharmaceutics</i> 68: 179-190.
16	<b>Chan H-K</b> and Gonda I (1991) Studies of the mechanism of crystal growth of hexamethylmelamine: II. Rates of growth of the crystal faces. <i>Journal of Crystal Growth</i> 108: 751-758.
17	<b>Chan H-K</b> , Venkataram S, Grant DJW and Rahman YE (1991) Solid state properties of an oral iron chelator, 1, 2-dimethyl 3-hydroxy 4-pyridone, and its acetic acid solvate: I. Physicochemical characterisation, intrinsic dissolution rate and solution thermodynamics. <i>Journal of Pharmaceutical Sciences</i> 80: 677-685.
18	<b>Chan H-K</b> and Gonda I (1991) A simple method for the preparation of gallium chloride from the citrate solution. <i>European Journal of Nuclear Medicine</i> 18: 860.
19	<b>Chan H-K</b> , Ghosh S, Venkataram S, Rahman YE and Grant DJW (1992) Crystal structures of a new oral

No	Publication
	iron chelator, 1, 2-dimethyl 3-hydroxy 4-pyridone, and its solvates with acetic acid and formic acid. <i>Journal of Pharmaceutical Sciences</i> 81: 353-358.
20	Rodley G, <b>Chan H-K</b> and Gonda I (1993) Dissolution studies of hexamethylmelamine. <i>International Journal of Pharmaceutics</i> 95: 143-151.
21	Hartman P and <b>Chan H-K</b> (1993) Application of the periodic bond chain (PBC) theory and attachment energy consideration to derive the crystal morphology of hexamethylmelamine. <i>Pharmaceutical Research</i> 10: 1052-1058.
22	<b>Chan H-K</b> and Gonda I (1993) Preparation of radiolabeled materials for studies of deposition of fibers in human respiratory tract. <i>Journal of Aerosol Medicine</i> 6: 241-249.
23	Regnis JA, Robinson M, Bailey DL, Hooper P, <b>Chan H-K</b> , Gonda I, Bautovich G and Bye PTP (1994) Mucociliary clearance in patients with cystic fibrosis and in normal subjects. <i>American Journal of Respiratory Critical Care Medicine</i> 150: 66-71.
24	<b>Chan H-K</b> , Phipps PR, Gonda I, Cook P, Fulton R, Young I and Bautovich G (1994) Regional deposition of nebulized hypodense non-isotonic solutions in the human respiratory tract. <i>European Respiratory Journal</i> 7: 1483-1489.
25	Chua HL, Collis GG, Newbury AM, <b>Chan H-K</b> , Bower PN, Sly PD and Le Souef PN (1994) The influence of age on aerosol deposition in children with cystic fibrosis. <i>European Respiratory Journal</i> 7: 2185-91.
26	Cipolla DC, Clark AR, <b>Chan H-K</b> , Gonda I and Shire SJ (1994) Assessment of aerosol delivery systems for recombinant human desoxyribonuclease, S.T.P. <i>Pharmaceutical Sciences</i> 4: 50-62.
27	<b>Chan H-K</b> and Gonda I (1995) Physicochemical characterization of a new respirable form of nedocromil. <i>Journal of Pharmaceutical Sciences</i> 84: 692-696.
28	Daviskas E, Anderson SD, Gonda I, <b>Chan H-K</b> , Cook P and Fulton R (1995) Changes in mucociliary clearance during and after isocapnic hyperventilation and asthmatic and healthy subjects. <i>European Respiratory Journal</i> 8: 742-751.
29	Finlay WH, Stapleton KW, <b>Chan H-K</b> and Gonda I (1996) Regional deposition of inhaled hygroscopic aerosols: in vivo spect compared with mathematical modeling. <i>Journal of Applied Physiology</i> 81: 374-383.
30	<b>Chan H-K</b> , Ongpipattanakul B and Au-Yeung J (1996) Aggregation of rhDNase occurred during the compression of KBr pellets used for FTIR spectroscopy. <i>Pharmaceutical Research</i> 13: 238-242.
31	<b>Chan H-K</b> , Au-Yeung K-L and Gonda I (1996) Effects of additives on heat denaturation of rhDNase in solutions. <i>Pharmaceutical Research</i> 13: 756-761.
32	Anderson SD, Spring J, Moore B, Rodwell LT, Spalding N, Gonda I, <b>Chan H-K</b> , Walsh A and Clark AR (1997) The effect of inhaling a dry powder of sodium chloride on the airways of asthmatic subjects. <i>European Respiratory Journal</i> 10: 2465-2473.
33	Anderson SD, Brannan J, Spring J, Spalding N, Rodwell L, <b>Chan H-K</b> , Gonda I, Walsh A and Clark AR (1997) A new method for bronchial provocation testing in asthmatic subjects using a dry powder of mannitol. <i>American Journal of Respiratory and Critical Care Medicine</i> 156: 758-765.
34	<b>Chan H-K</b> , Clark AR, Gonda I, Mumenthaler M and Hsu C (1997) Spray dried powders and powder blends of recombinant human deoxyribonuclease (rhDNase) for aerosol delivery. <i>Pharmaceutical Research</i> 14: 431-437.
35	Daviskas E, Anderson SD, Brannan JD, <b>Chan H-K</b> , Eberl S and Bautovich G (1997) Inhalation of dry powder mannitol increases mucociliary clearance. <i>European Respiratory Journal</i> 10: 2449-2454.
36	<b>Chan H-K</b> and Gonda I (1997) Solid state characterisation of spray dry powders of recombinant deoxyribonuclease I. <i>Journal of Pharmaceutical Sciences</i> 87: 647-654.
37	Smith KJ, <b>Chan H-K</b> and Brown KF (1998) Influence of flowrate on aerosol particle size distribution from pressurized and breath-actuated inhalers. <i>Journal of Aerosol Medicine</i> 11: 231-245.
38	Separovic F, Lam YH, Ke X and <b>Chan H-K</b> (1998) A solid-state NMR study of protein hydration and stability. <i>Pharmaceutical Research</i> 15: 1816-1821.
39	<b>Chan H-K</b> , Au-Yeung K-L and Gonda I (1999) Development of a mathematical model for the water distribution in freeze-dried solids. <i>Pharmaceutical Research</i> 16: 660-665.
40	<b>Chan H-K</b> , Daviskas E, Eberl S, Robinson M, Bautovich G and Young I (1999) Deposition of aqueous aerosol of <sup>99m</sup> Tc-DTPA generated and delivered by a novel system (AERx™) in healthy subjects. <i>European Journal of Nuclear Medicine</i> 26: 320-327.
41	Chew N and <b>Chan H-K</b> (1999) Influence of particle size, air flow and inhaler on the dispersion of mannitol powders as aerosols. <i>Pharmaceutical Research</i> 16: 1098-1103.
42	Daviskas E, Anderson SD, Eberl S, <b>Chan H-K</b> and Bautovich J (1999) Inhalation of dry powder mannitol improves clearance of mucus in patients with bronchietasis. <i>American Journal of Respiratory Critical Care Medicine</i> 159: 1843-1848.

No	Publication
43	Robinson M, Daviskas E, Eberl S, Baker J, <b>Chan H-K</b> , Anderson SD and Bye PTP (1999) The effect of inhaled mannitol on bronchial mucus clearance in cystic fibrosis patients: A pilot study. <i>European Respiratory Journal</i> 14: 678-685.
44	Chew N and <b>Chan H-K</b> (2000) The effect of spacers on the delivery of metered dose aerosols of nedocromil sodium and disodium cromoglycate. <i>International Journal of Pharmaceutics</i> 200: 87-92.
45	Brannan JD, Anderson SD, Freed R, Leuppi JD, Koskela H and <b>Chan H-K</b> (2000) Nedocromil sodium inhibits responsiveness to inhaled mannitol in asthmatic subjects. <i>American Journal of Respiratory and Critical Care Medicine</i> 161: 2096-99.
46	Chew NYK, Bagster DF and <b>Chan H-K</b> (2000) Effect of particle size, air flow and inhaler device on the aerosolisation of disodium cromoglycate powders. <i>International Journal of Pharmaceutics</i> 206: 75-83.
47	Charoenchaitrakool M, Dehghani F, Foster NR and <b>Chan H-K</b> (2000) Micronisation by RESS to enhance the dissolution rates of poorly water soluble pharmaceuticals. <i>Ind &amp; Eng. Chem. Res. J</i> 39: 4794-4802.
48	Bustami R, <b>Chan H-K</b> , Dehghani F and Foster NR (2000) Generation of micro-particles of proteins for aerosol delivery using high pressure modified carbon dioxide. <i>Pharmaceutical Research</i> 17: 1360-1366.
49	Subbarao P, Brannan JD, Ho B, Anderson SD, <b>Chan H-K</b> and Coates AL (2000) Inhaled mannitol identifies methacholine responsive children with current asthma. <i>Pediatric Pulmonology</i> 29: 291-298.
50	Koskela H, Di Sciascio MB, Anderson SD, Andersson M, <b>Chan H-K</b> , Gadalla S and Katelaris C (2000) Nasal hyperosmolar challenge with a dry powder of mannitol in patients with allergic rhinitis: evidence for epithelial cell involvement. <i>Clinical and Experimental Allergy</i> 30: 1627-1636.
51	Daviskas E, Anderson SD, Eberl S, <b>Chan H-K</b> and Young I (2001) The 24 Hr effect of mannitol on the clearance of mucus in patients with bronchiectasis. <i>Chest</i> 109: 414-421.
52	Leuppi JD, Salome CM, Jenkins CR, Anderson SD, Xuan W, Marks GB, Koskela H, Brannan JD, Freed R, Andersson M, <b>Chan H-K</b> and Woolcock AJ (2001) Predictive markers of asthma exacerbation during stepwise dose-reduction of inhaled corticosteroids. <i>American Journal of Respiratory Critical Care Medicine</i> 163: 406-412.
53	Jouyban-Gharamaleki A, Dastmalchi S, <b>Chan H-K</b> , Hanaee J, Javanmard A and Barzegar-Jalali (2001) Solubility prediction of furosemide in water-cosolvent mixtures using the minimum number of experiments. <i>Drug Dev Ind Pharm</i> 27: 577-583.
54	Brannan JD, Anderson SD, Gomes K, King GG, <b>Chan H-K</b> and Seale JP (2001) Fexofenadine decreases sensitivity to and montelukast improves recovery from inhaled mannitol. <i>American Journal of Respiratory and Critical Care Medicine</i> 163: 1420-1425.
55	Chew N and <b>Chan H-K</b> (2001) In vitro aerosol performance and dose uniformity between the Foradile Aeroliser and the Oxis Turbuhaler. <i>Journal of Aerosol Medicine</i> 14: 495-501.
56	Chew N and <b>Chan H-K</b> (2001) Use of solid corrugated particles to enhance powder aerosol performance. <i>Pharmaceutical Research</i> 18: 1570-1577.
57	Eberl S, <b>Chan H-K</b> , Daviskas E, Constable C and Young I (2001) Aerosol deposition and clearance measurement: a novel technique using dynamic SPET. <i>European Journal of Nuclear Medicine</i> 28: 1365-1372.
58	Högman M, Lúdviksdóttir D, Anderson SD, George S, Hakansson L, <b>Chan HK</b> , Meriläinen P and Hedenström H (2001) Inhaled mannitol shifts exhaled nitric oxide in opposite directions in asthmatic and healthy subjects. <i>Respiration Physiology</i> 124: 141-150.
59	Leuppi JD, Salome CM, Jenkins CR, Koskela H, Anderson SD, <b>Chan H-K</b> and Woolcock AJ (2001) Markers of airway inflammation and airway hyperresponsiveness in patients with well-controlled asthma. <i>European Respiratory Journal</i> 18: 444-450.
60	Jouyban A, <b>Chan H-K</b> , Clark BJ and Kenndler E (2001) Mathematical representation of electrophoretic mobility in mixed aqueous-methanolic buffers in capillary zone electrophoresis. <i>Journal of Microcolumn Separation</i> 13: 346-350.
61	Brannan JD, Koskela H, Anderson SD and <b>Chan H-K</b> (2002) Budesonide reduces sensitivity and reactivity to inhaled mannitol in asthmatic subjects. <i>Respirology</i> 7: 37-44.
62	Jouyban A, Khoubnasabjafari M, <b>Chan H-K</b> , Clark BJ and Acree WE Jr (2002) Solubility prediction of anthracene in mixed solvents using minimum number of experimental data. <i>Chem. Pharm. Bull.</i> 50: 21-25.
63	Jouyban A, Rehman M, Shekunov BY, <b>Chan H-K</b> , Clark BJ and York P (2002) Solubility prediction in supercritical CO <sub>2</sub> using minimum number of experiments. <i>Journal of Pharmaceutical Sciences</i> 91: 1287-1295.
64	Jouyban A, <b>Chan H-K</b> and Foster NR (2002) Mathematical representation of solute solubility in supercritical carbon dioxide using empirical expressions. <i>Journal of Supercritical Fluids</i> 24: 19-35.
65	Jouyban A, Romero S, <b>Chan H-K</b> , Clark BJ and Bustamante P (2002) A cosolvency model to predict solubility of drugs at several temperatures from a limited number of solubility measurements. <i>Chem.</i>

No	Publication
	Pharm. Bull. 50: 594-599.
66	Jouyban A, Grosse SC, Coleman MW, <b>Chan H-K</b> , Kenndler E and Clark BJ (2002) Calculation of electrophoretic mobility in mixed solvent buffers in capillary zone electrophoresis using a mixture response surface method. <i>Analyst</i> 127: 1188-1192.
67	Jouyban A, <b>Chan H-K</b> , Barzegar-Jalali M, Acree WE Jr (2002) A model to represent solvent effects on the chemical stability of solutes in mixed solvent systems. <i>International Journal of Pharmaceutics</i> 243: 167-172.
68	Jouyban A, <b>Chan H-K</b> , Clark BJ, Acree WE Jr (2002) Mathematical representation of apparent dissociation constants in aqueous-organic solvent mixtures. <i>International Journal of Pharmaceutics</i> 246: 135-142.
69	Chew NYK, <b>Chan H-K</b> , Bagster DF, Mukhraiya J (2002) Characterization of pharmaceutical powder inhalers: estimation of energy input for powder dispersion and effect of capsule device configuration. <i>Journal of Aerosol Science</i> 33: 999-1008.
70	Chew N and <b>Chan H-K</b> (2002) Effect of powder polydispersity on aerosol generation. <i>Journal of Pharm &amp; Pharmaceut Sci</i> 5: 162-168.
71	<b>Chan H-K</b> , Eberl S, Daviskas E, Constable C and Young I (2002) Changes in lung deposition of aerosols due to hygroscopic growth: a fast SPECT study. <i>Journal of Aerosol Medicine</i> 15: 307-311.
72	Goodall S, Chew N, <b>Chan H-K</b> , Auriac D and Waters MJ (2002) Aerosolisation of protein solutions using thermal ink jet technology. <i>Journal of Aerosol Medicine</i> 15: 351-357.
73	Lam Y-H, Bustami R, Phan T, <b>Chan H-K</b> and Separovic F (2002) A solid-state NMR study of protein mobility in lyophilized protein-sugar powders. <i>Journal of Pharmaceutical Sciences</i> 91: 943-951.
74	Daviskas E, Anderson SD, Eberl S, <b>Chan H-K</b> et al (2002) Effects of terbutaline in combination with mannitol on mucociliary clearance. <i>European Respiratory Journal</i> 20: 1423-1429.
75	Jouyban A, <b>Chan H-K</b> , Clark BJ and Kenndler E (2003) Comparison of different algorithms to calculate electrophoretic mobility of analytes as a function of binary solvent composition. <i>Electrophoresis</i> 24: 1596-1602.
76	Koskela H, Taivainen A, Tukiainen H and <b>Chan H-K</b> (2003) Inhalation challenge with bovine dander allergens: who needs it? <i>Chest</i> 124: 383-391.
77	Holzer K, Anderson SD, <b>Chan H-K</b> and Douglass J (2003) Mannitol as a challenge test to identify exercise-induced bronchoconstriction in elite athletes. <i>American Journal of Respiratory Critical Care Medicine</i> 167: 534-537.
78	Koskela HO, Hyvarinen L, Brannan JD, <b>Chan H-K</b> and Anderson SD (2003) Sensitivity and validity of three bronchial provocation tests to demonstrate the effect of inhaled corticosteroids in asthma. <i>Chest</i> 124: 1341-9
79	Koskela HO, Hyvärinen L, Brannan JD, <b>Chan H-K</b> and Anderson SD (2003) Responsiveness to three bronchial provocation tests in patients with asthma. <i>Chest</i> 124: 2171-2177.
80	Bustami R, <b>Chan H-K</b> , Sweeney T, Dehghani F and Foster N (2003) Generation of fine powders of recombinant human deoxyribonuclease using the aerosol solvent extraction system. <i>Pharmaceutical Research</i> 20: 2028-2035.
81	Jouyban A, <b>Chan H-K</b> , Khoubnasajafari M, and Clark BJ (2003) Calculation of electrophoretic mobility in ternary solvent electrolyte systems. <i>Journal of Pharm. Biomed. Analysis</i> 32: 203-208.
82	Jouyban A, Khoubnasajafari M, <b>Chan H-K</b> , Atria KD, and Clark BJ (2003) Predicting electrophoretic mobility of beta-blockers in a water-methanol based electrolyte system. <i>Chromatographia</i> 57: 191-195.
83	Jouyban, A, Jabbaribar, F and <b>Chan H-K</b> (2003) An improved empirical model to calculate solute solubility in supercritical carbon dioxide. <i>Pharmazie</i> 58: 396-398.
84	Tang P, Chew N, <b>Chan H-K</b> and Raper JA (2003) Limitation of determination of surface fractal dimension using N <sub>2</sub> absorption isotherms and modified Frenkel-Halsey-Hill theory. <i>Langmuir</i> 19: 2632-2638.
85	Jouyban A, Grosse SC, <b>Chan H-K</b> , Coleman MW, and Clark BJ (2003) Mathematical representation of electrophoretic mobility of basic drugs in ternary solvent buffers in capillary zone electrophoresis. <i>Journal of Chromatography A</i> 994: 191-198.
86	Jouyban A, Soltanpour S and <b>Chan H-K</b> (2004) A Simple relationship between dielectric constant of mixed solvents with solvent composition and temperature. <i>International Journal of Pharmaceutics</i> 269: 353-360.
87	Jouyban A, <b>Chan H-K</b> , Romero S, Khoubnasabjafari M, and Bustamante P (2004) Solubility prediction in water-ethanol mixtures based on excess free energy approach using minimum number of experimental data. <i>Pharmazie</i> 59: 117-120.
88	<b>Chan H-K</b> , Clark A, Kuo M-C, Lehrman SR, Pikal-Cleland K, Miller DP, Vehring R and Lechuga-Ballesteros D (2004) Physical stability of salmon calcitonin spray-dried powders for inhalation. <i>Journal of</i>

No	Publication
	Pharmaceutical Sciences 93: 792-804.
89	Koskela HO, Hyvärinen L, Brannan JD, <b>Chan H-K</b> and Anderson SD (2004) Coughing during mannitol challenge is associated with asthma. <i>Chest</i> 125: 1985-1992.
90	Chen J-F, Zhou M-Y, Shao L, Wang Y-Y, Yun J, Chew NYK and <b>Chan H-K</b> (2004) Feasibility of preparing nanodrugs by high-gravity reactive precipitation. <i>International Journal of Pharmaceutics</i> 269: 267-274.
91	Glover W and <b>Chan H-K</b> (2004) Electrostatic charge characterization of pharmaceutical aerosols using electrical low pressure impactor (ELPI). <i>Journal of Aerosol Science</i> 35: 755-764.
92	Coates M, Fletcher D, <b>Chan H-K</b> and Raper J (2004) Effect of design on the performance of a dry powder inhaler using computational fluid dynamics. Part 1: Grid structure and mouthpiece length. <i>Journal of Pharmaceutical Sciences</i> 93: 2863-2876.
93	Chew NYK, Reddel HK, Bosnic-Anticevich SZ and <b>Chan H-K</b> (2004) Effect of mouthpiece washing on aerosol performance of CFC-free Ventolin™. <i>Journal of Asthma</i> 41: 715-721.
94	Tang P, <b>Chan H-K</b> and Raper JA (2004) Prediction of aerodynamic diameter of particles with rough surfaces. <i>Powder Technology</i> 147: 64-78.
95	Daviskas E, Anderson SD, Gomes K, Briffa P, Cochrane B, <b>Chan H-K</b> , Young I and Rubin BK (2005) Inhaled mannitol for the treatment of mucociliary dysfunction in patients with bronchiectasis: effect on lung function, health status and sputum. <i>Respirology</i> 10: 46-56.
96	Chew NYK, Tang P, <b>Chan H-K</b> and Raper JA (2005) How much particle surface corrugation is sufficient to improve aerosol performance of powders? <i>Pharmaceutical Research</i> 22: 148-152.
97	Coates MS, <b>Chan H-K</b> , Fletcher DF and Raper JA (2005) The role of capsule on the performance of a dry powder inhaler using computational and experimental analyses. <i>Pharmaceutical Research</i> 22 (6): 923-932.
98	Jouyban A, Khoubnasabjafari M and <b>Chan H-K</b> (2005) Modeling the entrainer effects on solubility of solutes in supercritical carbon dioxide. <i>Chem. Pharm. Bull.</i> 53: 290-295.
99	Jouyban A, Soltani S, <b>Chan H-K</b> and Acree WE Jr (2005) Modeling acid dissociation constant of analytes in binary solvents at various temperatures using Jouyban-Acree model. <i>Thermochimica Acta</i> 428: 119-123.
100	Jouyban A, Chew NYK, <b>Chan H-K</b> , Sabour M, and Acree WE Jr (2005) A unified cosolvency model for calculating solute solubility in mixed solvents. <i>Chem. Pharm. Bull.</i> 53: 634-637.
101	Leuppi JD, Tandjung R, Anderson SD, Stolz D, Brutsche MH, Bingisser R, Perruchoud AP, Surber C, Knoblauch A, Andersson M, Greiff L, <b>Chan H-K</b> and Tamm M (2005) Prediction of treatment-response to inhaled corticosteroids by mannitol-challenge test in COPD: A proof of concept. <i>Pulmonary Pharmacology &amp; Therapeutics</i> 18: 83-88.
102	Koskela HO, Martens R, Brannan JD, Anderson SD, Leuppi J and <b>Chan H-K</b> (2005) Dissociation in the effect of nedocromil on mannitol-induced cough or bronchoconstriction in asthmatic subjects. <i>Respirology</i> 10: 442-448.
103	Coates MS, <b>Chan H-K</b> , Fletcher DF and Raper JA (2005) Influence of air flow on the performance of a dry powder inhaler using computational and experimental analyses. <i>Pharmaceutical Research</i> 22 (9): 1445-1453.
104	Chew NYK, Shekunov BY, Tong HHY, Chow AHL, Savage C, Wu J and <b>Chan H-K</b> (2005) Effect of amino acids on the dispersion of disodium cromoglycate powders. <i>Journal of Pharmaceutical Sciences</i> 94 (10): 2289-2300.
105	Kwok PCL, Glover W and <b>Chan H-K</b> (2005) Electrostatic charge characteristics of aerosols produced from metered dose inhalers. <i>Journal of Pharmaceutical Sciences</i> 94(12): 2789-99.
106	Issa F, Kassiou M, <b>Chan H-K</b> , McLeod MD (2006). Synthesis and radiolabelling of ipratropium and tiotropium for use as PET ligands in the study of inhaled drug deposition. <i>Aust J Chem</i> 59:53-58.
107	Jouyban A, <b>Chan H-K</b> , Chew NYK, Khoubnasabjafari M, Acree Jr WE (2006) Solubility prediction of paracetamol in binary and ternary solvent mixtures using Jouyban-Acree Model. <i>Chem Pharm Bull</i> 54:428-431.
108	Tang P, <b>Chan H-K</b> , Tam E, de Gruyter N, Chan J (2006). Preparation of NaCl Powder Suitable for Inhalation. <i>Industrial &amp; Engineering Chemistry Research</i> 45:4188-4192.
109	Coates MS, <b>Chan H-K</b> , Fletcher DF and Raper JA (2006) Effect of design on the performance of a dry powder inhaler using computational fluid dynamics. part 2 - air inlet size. <i>J. Pharmaceutical Sciences</i> 95(6):1382-1392.
110	Jouyban A, Chew NYK, <b>Chan H-K</b> , Khoubnasabjafari M, Acree WE Jr. (2006) Solubility prediction of salicylic acid in water-ethanol-propylene glycol mixtures using the Jouyban-Acree model. <i>Pharmazie</i> 61(4), 318-321.
111	Jouyban A, Khoubnasabjafari M, <b>Chan H-K</b> , Acree WE Jr. (2006) Mathematical representation of solubility of amino acids in binary aqueous-organic solvent mixtures at various temperatures using the

No	Publication
	Jouyban-Acree model. <i>Pharmazie</i> 61(9): 789-792.
112	Glover W, <b>Chan H-K</b> , Eberl S, Daviskas E, Anderson SD (2006). Lung Deposition of Mannitol Powder Aerosol in Healthy Subjects. <i>J Aerosol Med</i> 19: 522-532.
113	Kwok PCL, Collins R, <b>Chan H-K</b> (2006). Effect of spacers on the electrostatic charge properties of metered dose inhaler aerosols. <i>J Aerosol Sci</i> 37:1671-1682.
114	Young P, <b>Chan H-K</b> , Chiou H, Edge S, Tee T, Traini D (2007). The influence of mechanical processing of dry powder inhaler carriers on drug aerosolisation performance. <i>J Pharm Sci</i> 96: 1331-1341.
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