

C. JUDSON KING

List of Publications

1. "Systems Analysis in Chemical Process Design: An Example." Trans. Rutgers Conf., Amer. Soc. Qual. Control, 13, 129 (September, 1961).
2. "Absorption and Distillation" (with J. E. Vivian) in Modern Chemical Engineering, A. Acrivos, ed., Chap. 9, Vol. I, p. 437-485, Reinhold Publ. Co. (1963).
3. Book Review: "Saline Water Conversion" II. R. F. Gould, ed., Amer. Chem. Soc., Science, 141, 626 (August 16, 1963).
4. Book Review: "Mass Transfer Process Calculations", by H. Sawistowski and W. Smith. Chem. Eng. News, 41, 68 (1963).
5. "Fresh Water from Sea Water" in A Course in Process Design by T. K. Sherwood, M. I. T. Press (1964).
6. "Diffusivities of Slightly Soluble Gases in Water" (with J. E. Vivian). A.I.Ch.E. Jour., 10, 220 (1964).
7. "The Mechanism of Liquid Phase Resistance to Gas Absorption in a Packed Column" (with J. E. Vivian). Pres. at A.I.Ch.E. Mtg., Buffalo, May, 1963. A.I.Ch.E. Jour., 10, 221 (1964).
8. "The Additivity of Individual Phase Resistances in Mass Transfer Operations" Pres. at A.I.Ch.E. Mtg., Pittsburgh, May, 1964. A.I.Ch.E. Jour., 10, 671 (1964).
9. Letter to the Editor: "For Curved Operating Line" Chem. Eng., 72, 7 (March 15, 1965).
10. "Mass Transfer During Short Surface Exposures in Countercurrent Flow" Ind. Eng. Chem. Funds., 4, 125 (1965).
11. "Gas-Liquid Mass Transfer in Cocurrent Froth Flow" (with J. M. Heuss and C. R. Wilke). UCRL-11570 Rev., A.I.Ch.E. Jour., 11, 866 (1965).
12. "Liquid Phase Diffusion of Nonelectrolytes at High Dilution" (with L. Hseuh and K-W. Mao). J. Chem. Eng. Data, 10, 348 (1965).
13. "Turbulent Liquid Phase Mass Transfer at a Free Gas-Liquid Interface" I&EC Funds., 5, 1 (1966).
14. "The Influence of Diffusivity on Liquid Phase Mass Transfer to the Free Interface in a Stirred Vessel" (with A. A. Kozinski). Pres. at A.I.Ch.E. Mtg., Philadelphia, December 1965. A.I.Ch.E. Jour., 12, 109 (1966).

15. "Concentration-Dependent Diffusion Coefficients and Rates of Mass Transport" I&EC Funds., 5, 146 (1966).
16. Letter to the Editor: "On the Addition of Phase Resistances" Chem. Eng. Sci., 21, 196 (1966).
17. "Pyrolysis of Ethylbenzene With and Without Oxygen Initiation" (with E. D. Hausmann). UCRL-16021 Rev., I&EC Funds., 5, 295 (1966).
18. "Axial Dispersion in Liquid Flow through Packed Beds" (with S. F. Miller). UCRL-11951 Rev., A.I.Ch.E. Jour., 12, 767 (1966).
19. "Liquid Diffusivities in the Glycol-Water System" (with C. H. Byers). UCRL-16622, J. Phys. Chem., 70, 2499 (1966).
20. "Factors Influencing the Rate of Heat Conduction in Freeze-Drying" (with T. A. Triebes). I&EC Proc. Des. Devel., 5, 430 (1966).
21. Book Review: "Mass Transfer and Absorbers", by T. Hobler, A.I.Ch.E. Jour., 12, 626 (1966).
22. "The Relationship Between Transport Properties and Rates of Freeze Drying of Poultry Meat" (with O. C. Sandall and C. R. Wilke). Pres. at A.I.Ch.E. Mtg., Detroit, December 1966. A.I.Ch.E. Jour., 13, 428 (1967); Chem. Eng. Prog. Symp. Ser., 64, No. 86, 43 (1968).
23. "Gas-Liquid Mass Transfer with a Tangentially Moving Interface: Part I. Theory" (with C. H. Byers). A.I.Ch.E. Jour., 13, 628 (1967).
24. "Gas-Liquid Mass Transfer with a Tangentially Moving Interface: Part II. Experimental Studies" (with C. H. Byers). Pres. at A.I.Ch.E. Mtg., Detroit, December, 1966. A.I.Ch.E. Jour., 13, 637 (1967).
25. "Chemical Engineering Case Problems" (with Dr. R. Woods, P. L. Silveston and J. H. Gary). Education Projects Committee, A.I.Ch.E., New York (1967). Chap. 1, The Use of Case Problems in Chemical Engineering Instruction; Chap. 2, Continuous Drying of Air; Chap. 5, Production of Benzene and Xylenes by Hydrodealkylation. Also presented at A.I.Ch.E. Mtg., New York, November 1967.
26. "Rates of Moisture Sorption and Desorption in Porous Dried Foodstuffs" Food Technol., 22, 509 (1968).
27. "Convective Heat Transfer for Freeze Drying of Foods" (with J. P. Clark). Pres. at Inst. of Food Technol. Annual Mtg., Philadelphia, May 22, 1968. Food Technol., 22, 1235 (1968).
28. "Physical Properties Important for the Freeze-Drying of Poultry Meat" (with W. K. Lam and O. C. Sandall). Food Technol., 22, 1302 (1968)
29. "Mass Transport in Freeze-Drying: Basic Studies and Processing Implications" (with R. D. Gunn and J. P. Clark). International Institute of Refrigeration, Commission X, Lausanne, Switzerland,

Annexe 1969-4, pp. 79-94, June, 1969.

30. "Mass Transport in Porous Materials under Combined Gradients of Composition and Pressure" (with R. D. Gunn). Pres. at A.I.Ch.E. Mtg., New York, November, 1967. A.I.Ch.E. Jour., 15, 507 (1969).
31. "Evaporation Rates of Volatile Liquids in a Laminar Flow System: I. Pure Liquids, II. Liquid Mixtures" (with M. W. Clark). Pres. at A.I.Ch.E. Mtg., Tampa, Florida, May, 1968. UCRL-19655, 19656. A.I.Ch.E. Jour., 16, 64, 69 (1970).
32. "Case Problems in Chemical Process Design and Engineering" Chem. Eng. Education, 4, 124 (1970).
33. "Freeze Drying of Foodstuffs. CRC Critical Reviews in Food Technology" 1, 379 (1970); reissued as Freeze Drying of Foods, with new Appendix (hardcover), Chemical Rubber Publ. Co., Cleveland, Ohio (1971).
34. Book Review: "Describing Chemical Engineering Systems", by W. E. Ranz. A.I.Ch.E. Jour., 16, 1117 (1970).
35. "Process Design with Computers" (Diseno de Procesos con Computadoras) (with F. J. Barnés). Tercer Seminario Latino Americano de Quimica, Cd. de Mexico, 1970.
36. Book: "Separation Processes", McGraw-Hill (1971).
37. "Mass Transport Characteristics of Freeze-Dried Foods" (with R. D. Gunn). Pres. at A.I.Ch.E. Mtg., Los Angeles, December, 1968; Chem. Eng. Prog. Symposium Series, 67, No. 108, 94 (1971).
38. "Convective Freeze-Drying in Mixed or Layered Beds" (with J. P. Clark). Pres. at A.I.Ch.E. Mtg., Los Angeles, December, 1968; Chem. Eng. Prog. Symposium Series, 67, No. 108, 102 (1971).
39. "Factors Governing Terminal Rates of Freeze-Drying of Poultry Meat" (with A. Margaritis). Pres. at A.I.Ch.E. Meeting, Portland, Oregon, August, 1969; Chem. Eng. Prog. Symposium Series, 67, No. 108, 112 (1971).
40. "Retention of Volatile Flavor Components during Drying of Fruit Juices" (with S. K. Chandrasekaran). Pres. at A.I.Ch.E. Mtg., Washington, D.C., November, 1969; Chem. Eng. Prog. Symposium Series, 67, No. 108, 122 (1971).
41. "Solid-Liquid Phase Equilibrium in Multicomponent Aqueous Sugar Solutions" (with S. K. Chandrasekaran). Journal of Food Science, 36, 699 (1971).
42. "Measurements of Rates of Moisture Transport within the Solid Matrix of Hygroscopic Porous Materials" (with A. Margaritis) Ind. Eng. Chem. Funds., 10, 510 (1971).

43. "Recent Developments in Food Dehydration Technology" Presented at 3rd Intl. Congr. of Food Science and Technology, Washington, D.C., August, 1970. Proc. 3rd Intl. Congr. of Food Science and Technology, p. 565 (1972).
44. "Analysis of Volatiles Loss from Food Liquids during Freeze-Drying and Evaporative Drying as a Ternary Diffusion Process" (with S. K. Chandrasekaran). XIII Intl. Congress of Refrigeration, Washington, D.C., Commission X, September, 1971.
45. "Calculation of Minimum Reflux for Distillation Columns with Multiple Feeds" (with F. J. Barnes, D. N. Hanson). Ind. Eng. Chem. Proc. Des. Devel., 11, 136 (1972).
46. "Systematic Evolutionary Process Synthesis" (with D. W. Gantz, F. J. Barnés). Pres. at A.C.S. Mtg., Los Angeles, March 30, 1971. Ind. Eng. Chem. Proc. Des. Devel., 11, 271 (1972).
47. "Multicomponent Diffusion and Vapor-Liquid Equilibria of Dilute Organic Components in Aqueous Sugar Solution" (with S. K. Chandrasekaran). A.I.Ch.E. Jour., 18, 513 (1972).
48. "Volatiles Retention during Drying of Food Liquids" (with S. K. Chandrasekaran). A.I.Ch.E. Jour., 18, 520 (1972).
49. "A Three-Column, Three-Detector Gas Chromatographic Method for the Single-Sample Analysis of a Mixture of SiCl<sub>4</sub>, Cl<sub>2</sub>, Ar, N, CO<sub>2</sub> and CO<sub>2</sub>" (with P. K. Basu, S. Lynn), J. Chromatog. Sci., 10, 479 (1972).
50. "A Continuous Water-Vapor Removal System for the Freeze-Drying Process" (with R. Kumar, S. Lynn), ASHRAE Jour., 14, No. 7, 38 (1972).
51. "Systematic Synthesis of Separation Schemes" (with R. W. Thompson). Pres. at A.I.Ch.E. Mtg., Dallas, Texas, February, 1972. A.I.Ch.E. Jour., 18, 941 (1972).
52. "Condenser and Vacuum Systems for Freeze-Drying of Foods" (with R. Kumar). Pres. at A.I.Ch.E. Mtg., Denver, Colo., September, 1970. Chem. Eng. Prog. Symp. Ser., 68, No. 125, 1 (1972).
53. "Process Considerations for Extractive Distillation: Separation of Propylene and Propane" (with R. Kumar, J. M. Prausnitz). Pres. at A.C.S. Mtg., Chicago, Illinois, September, 1970. ACS Advances in Chemistry, No. 115, 16 (1972).
54. "Cut Ethylene Loss in Demethanizers" (with F. J. Barnes). Process Technol. Intl., 17, 933 (1972).
55. "Marangoni Stabilization of Density Driven Convection" (with I. F. Davenport). Chem. Eng. Sci., 28, 645 (1973).
56. "Freeze-Drying of Aqueous Solutions: Maximum Allowable Operating Temperature" (with R. J.

- Bellows). *Cryobiology* 9, 559 (1972).
57. “Workshop on Chemical Process Design and Engineering” (with A. S. Foss, E. A. Grens, S. Lynn and D. F. Rudd). Pres. at ASEE Chemical Engineering Division Summer School for Chemical Engineering Faculty, Boulder, Col., August 1972. *Chem. Eng. Educ.*, 7, 72 (1973).
  58. “Manufacture of Silicon Tetrachloride from Rice Hulls” (with P. K. Basu, S. Lynn). *AIChE Jour.*, 19, 439 (1973).
  59. “Freeze Drying”, chapter in *Food Dehydration*, W. B. Van Arsdel, M. J. Copley and A. I. Morgan, Jr., eds., AVI Publ. Co., Westport, Conn., 2nd ed., 1973.
  60. “Simple Technique to Determine Solubilities of Sparingly Soluble Organics: Solubility and Activity Coefficients of d-Limonene, n-Butylbenzene, and n-Hexyl Acetate in Water and Sucrose Solutions” (with H. A. Massaldi). *J. Chem. Eng. Data*, 18, 393 (1973).
  61. “Product Collapse during Freeze-Drying of Liquid Foods” (with R. J. Bellows). Pres. at AIChE Annual Meeting, New York, N.Y., November 1972. *AIChE Symp. Ser.*, 69, No. 132, 33 (1973).
  62. Letter to the Editor (with R. D. Gunn), *AIChE Journal*, 19, 1285 (1973).
  63. “Design Falling-Film Absorbers” (with G. Guerreri). *Hydrocarbon Processing*, 53, No. 1, 131 (1974).
  64. “The Onset of Natural Convection from Time-Dependent Profiles” (with I. F. Davenport). Pres. at AIChE Meeting, Detroit, June 1973. *Int. Jour. Heat & Mass Trans.*, 17, 69 (1974).
  65. “Natural Convection from Time-Dependent Profiles at a Gas-Liquid Surface” (with I. F. Davenport). *Int. Jour. Heat & Mass Trans.*, 17, 77 (1974).
  66. “Chemical Engineering at Berkeley” (with J. M. Prausnitz and T. Vermeulen). *Ch. Eng. Educ.*, 8, 6 (Winter, 1974).
  67. “Pressurized Freezing for Retarding Shrinkage After Drying: A Quantitative Interpretation”. *Cryobiology*, 11, 121 (1974).
  68. “Slush Evaporation: A New Method for Concentration of Liquid Foods” (with Clifford M. Lowe). *Jour. of Food Sci.*, 39, 248 (1974).
  69. “Determination of Volatiles by Vapor Head-Space Analysis in a Multi-Phase System: d-Limonene in Orange Juice” (with H. A. Massaldi). *J. Food Sci.*, 39, 434 (1974).
  70. “Volatiles Retention during Freeze-Drying of Synthetic Emulsions” (with H. A. Massaldi). *J. Food Sci.*, 39, 438 (1974).
  71. “Retention of d-Limonene during Freeze-Drying of Orange Juice” (with H. A. Massaldi). *J. Food Sci.*, 39, 445 (1974).

72. "Heat Transfer from Condensing Steam to Vegetable Pieces" (with C.-C Ling, J. L. Bomben, and D. F. Farkas). Pres. at Inst. Food Technol. Annual Meeting, Miami, Fla., June 1974. *J. Food Sci.*, 39, 692 (1974).
73. Book Review: "Recent Developments in Separation Science" (N. N. Li, editor). *CHEMTECH*, 4, 273 (1974).
74. "Kinetics of Ice Crystallization in Sugar Solutions and Fruit Juices" (with A. M. Omran). Pres. at AIChE Meeting, New Orleans, March 1973. *AIChE Journal*, 20, 795 (1974).
75. "Novel Dehydration Techniques" Pres. at Symposium on Advances in Dehydration and Preconcentration, Intl. Union of Food Science & Technology, Sanderstead, England, September 1973. In *Advances in Dehydration and Preconcentration of Foods*, pp. 435-488, A. Spicer, ed., Applied Science Publishers Ltd., London, 1974.
76. "Synthesis of Cascade Refrigeration Systems" (with F. J. Barnés). Pres. at AIChE Tulsa, Okla., meeting, March 1974. *Ind. Eng. Chem. Proc. Des. & Devel.*, 13, 421 (1974).
77. "Selection and Sequencing of Separations" Pres. at ACS Annual Meeting, Los Angeles, March 1974. *Separ. Sci.*, 9, 493 (1974). Also in *New Developments in Separation Methods*, E. Grushka, ed., Marcel Dekker, Inc., New York (1976).
78. "Removal of Phenolics from Industrial Wastewater by Dual-Solvent Extraction" (with J. P. Earhart, K. W. Won and J. M. Prausnitz). Pres. at GVC-AIChE Joint Meeting, Munich, Germany, September 1974. *Proceedings of the Joint Meeting, GVC-AIChE, Munich, 1974*.
79. "Understanding and Conceiving Chemical Processes" 25th Annual Institute Lecture, American Institute of Chemical Engineers, Annual Mtg., Philadelphia, November 1973. *AIChE Monograph Series*, No. 8 (1974).
80. "Effect of Vertical Alignment on the Performance of Bubble and Foam Fractionation Columns" (with E. Valdes-Krieg and H. H. Sephton). *AIChE Journal*, 21, 400 (1974).
81. "Upflow Vertical Tube Evaporation with Interface Enhancement; Pressure Drop Reduction and Heat Transfer Enhancement by the Addition of a Surfactant" (with H. L. Fong and H. H. Sephton). *Desalination*, 16, 15 (1975).
82. "Removal of Surfactants and Particulate Matter from Sea Water Desalination Blowdown Brines by Foam Fractionation" (with E. Valdes-Krieg and H. H. Sephton). *Desalination*, 16, 39 (1975).
83. "Maximum Droplet Growth when Cooling a Saturated Solution" (with H. A. Massaldi and J. S. Newman). *Chem. Eng. Sci.*, 30, 563 (1975).
84. "Applications of Freeze Drying to Food Products" Pres. at 6th Intl. Course on Freeze-Drying and Advanced Food Technology, Intl. Inst. of Refrigeration, Comm. C-1, Burgenstock, Switzerland, June 1973. Chap. 21 in *Freeze-Drying and Advanced Food Technology*, S. A. Goldblith, L. Rey and W. Rothmayr, eds., Academic Press, New York, 1975.

85. "A Note on Howard's Model for Turbulent Natural Convection" (with I. F. Davenport). *J. Heat Transfer (Trans. ASME)*, 97, 476 (1975).
86. "Determination of Surface Equilibria and Mass Transfer Rates in a Concurrent Flow Bubble Column" (with E. Valdes-Krieg and H. H. Sephton). *A.I.Ch.E. Symp. Ser.*, 71, No. 150, 46 (1975).
87. "Secondary Nucleation of Ice in Sugar Solutions and Fruit Juices" (with J. H. Stocking). Pres. at A.I.Ch.E. Mtg., Los Angeles, November 1975. *AIChE Journal*, 22, 131 (1976).
88. "The Expanding Domain of Chemical Engineering" (with A. S. West). *Chem. Eng. Prog.*, 72, No. 3, 34 (1976).
89. "John Prausnitz of Berkeley" *Chem. Eng. Educ.*, 10, 56 (1976).
90. "Processing Approaches for Limited Freeze Drying" (with R. M. Carn and R. L. Jones). Pres. at Inst. of Food Technol. Mtg., Chicago, June 1975. *J. Food Sci.*, 41, 612 (1976).
91. "Recovery of Essential Oil and Suspended Solid Matter from Lemon-Processing Wastewater by Volatile-Solvent Extraction and Emulsion Flotation" (with J. P. Earhart). *J. Food Sci.*, 41, 1247 (1976).
92. "New Opportunities for Chemical Engineers" Invited pres. at Dedication of Ralph Landau Bldg. for Chem. Eng., Massachusetts Inst. of Technol., April 1976. *Chem. Eng. Prog.*, 72, No. 9, 27 (1976).
93. "Aroma Preservation during Evaporation and Drying of Liquid Foods: Consideration of Mechanism and of More than One Phase Being Present" (with H. A. Massaldi). Pres. at IV Intl. Congress of Food Science & Technology, International Union of Food Science and Technology, Madrid, Spain, September 1974. *Proceedings*, v. 4 (1976).
94. "The Effect of Additives on Mass Transfer in CaCO<sub>3</sub> or CaO Slurry Scrubbing of SO<sub>2</sub> from Waste Gases" (with G. T. Rochelle). *Ind. Eng. Chem. Fundam.*, 16(1), 67 (1977).
95. "Contributions of Chemical Engineering to the Development of Food Processing" Pres. at Chemical Engineering World Congress, Amsterdam, June 1976. *Chemical Engineering in a Changing World*, W. T. Koetsier, ed., Elsevier Scientific Pub. Co., The Netherlands (1977).
96. "Energy Consumption and Conservation in Separation Processes" Pres. at Inst. Food Technol. Mtg., Anaheim, CA, June 1976. *Food Technology*, 31(3), 85 (1977).
97. "Heat and Mass Transfer Fundamentals Applied to Food Engineering" Pres. at Symp. on Improved Unit Operations in Food Engineering, Inst. of Food Technologists Annual Mtg., Anaheim, CA, June 1976. *J. Food Process Engineering*, 1, 3 (1977).
98. "Modification of Conventional Freeze Dryers to Accomplish Limited Freeze Drying (with R. M. Carn). Pres. at A.I.Ch.E. Mtg., Los Angeles, CA, November 1975. *A.I.Ch.E. Symp. Ser.*, 73, No. 163, 103 (1977).

99. Use of Hydrating Salts to Accomplish Limited Freeze Drying” (with R. L. Jones). Pres. at AIChE Mtg., Boston, MA, September 1975. A.I.Ch.E. Symp. Ser., 73, No. 163, 113 (1977).
100. “Waste Recovery: Recovery of Organic Pollutants from Industrial Wastewaters by Solvent Extraction” (with J. P. Earhart, K. W. Won, H. Y. Wong and J.M. Prausnitz). Pres. at Amer. Chem. Soc. Mtg., San Francisco, CA, September 1976. Chem. Engr. Prog., 73, No. 5, 67 (1977).
101. “Separations of Cations by Foam and Bubble Fractionation” (with E. Valdes-Krieg and H. H. Sephton). Sep. & Purific. Methods 6, 221 (1977).
102. “Losses of Volatiles in the Nozzle Zone during Spray Drying” (with T. G. Kieckbusch). Pres. at Pacific Chemical Engineering Congress (PACHEC-77), Denver, CO, August, 1977. Proc. 2nd Pacific Chem. Eng. Congr., 1, 216 (1977).
103. “Alternatives for Stack Gas Desulfurization by Throwaway Scrubbing” (with G. T. Rochelle). Pres. at Pacific Chemical Engineering Congress (PACHEC-77), Denver, CO, August 1977. Proceedings, published by A.I.Ch.E. Chem. Eng. Prog., 74, No. 2, 65 (1978).
104. “Solvent Equilibria for Extraction of Carboxylic Acids from Water” (with J. M. Wardell). J. Chem. Eng. Data 23, 144 (1978).
105. “Asymmetry in Freeze Drying” (with J. A. Zarkarian). Pres. 1st Intl. Congress on Engineering & Food, Boston, MA, September 1976. J. Food Sci., 43(3), 992 (1978).
106. “Acceleration of Limited Freeze Drying in Conventional Dryers” (with J. A. Zarkarian). J. Food Sci., 43, 998 (1978).
107. Published comments on “Ranking ChE Departments in Terms of Productivity Indices”, Chem. Eng. Educ., 12, 70 (1978).
108. “Solvent Extraction for Treatment of Wastewaters from Acetic-Acid Manufacture” (with N. L. Ricker), pres. at A.I.Ch.E. Meeting, New York, November 1977. AIChE Symp. Ser., 74, No. 178, 204 (1978).
109. “Volatiles Retention During Rehumidification of Freeze Dried Food Models” (with O. O. Omatete). J. Fd. Technol. 13, 265 (1978).
110. “An Improved Method of Determining Vapor-Liquid Equilibria for Dilute Organics in Aqueous Solution” (with T. G. Kieckbusch), J. Chrom. Sci., 17, 273 (1979).
111. “Partition Coefficients for Acetates in Food Systems” (with T. G. Kieckbusch), J. of Agr. & Food Chem., 27, 504 (1979).
112. “Spray Drying: Volatiles Retention and Particle Morphology” 2nd Intl. Congress on Engineering and Food, Helsinki, Finland, Proceedings, August 1979.
113. “Process Alternatives for Stack Gas Desulfurization with H<sub>2</sub>S Regeneration to Produce Sulfur”

- (with G. T. Rochelle). Pres. at Ann. AIChE Mtg., New York, November 1977. A.I.Ch.E. Symp. Ser., 75, No. 188, 48 (1979).
114. "Precipitate Flotation for Removal of Copper from Dilute Aqueous Solutions" (with C. P. Beitelshes and H. H. Sephton). Pres at A.C.S. meeting, San Francisco, CA, September, 1976. in "Recent Developments in Separation Science", N. N. Li, ed., CRC Press, W. Palm Beach, FL, 5, 43 (1979).
  115. "Solvent Properties of Organic Bases for Extraction of Acetic Acid from Water" (with N. L. Ricker and J. N. Michaels). J. Separ. Proc. Technol., 1 No. 1, 36 (1979).
  116. Book Review: "Fundamentals of Freeze-Drying" by J. D. Mellor. AIChE Jour., 26, 331 (1980).
  117. "Solvent Extraction with Amines for Recovery of Acetic Acid from Dilute Aqueous Solutions" (with N. L. Ricker and E. F. Pittman). J. Separ. Proc. Technol., 1 No. 2, 23 (1980).
  118. "The Utility of Chemical Engineering Principles in Coffee-Processing Technology" Proc. 9th Intl. Colloq. on Science and Technol. of Coffee, Association Scientific International du Café (ASIC), London, June 1980.
  119. "Chemical Engineering and Food Processing" Pres. at Amer. Chem. Soc./Chem. Soc. Japan Chemical Congress Honolulu, HI, April 1979. Kagaku Kogaku, 44, 256 (1980). Chapter in "A Century of Chemical Engineering," W. F. Furter, Ed., Plenum, New York (1982), pp. 437-447.
  120. "Trouble-Shooting Problems at the University of California, Berkeley" (with S. Lynn). Chem. Eng. Educ., 14, 133 (1980).
  121. "Removal and Recovery of Carboxylic Acids and Phenols from Dilute Aqueous Streams" Proc. Intl. Symp. on Solvent Extraction (ISEC'80), Soc. Engrs. Univ. of Liège, Liège, Belgium, vol. 2, Paper No. 80-66 (1980).
  122. "Volatiles Loss During Atomization in Spray Drying" (with T. G. Kieckbusch). Pres. at AIChE Ann. Mtg., Miami Beach, November 1978. A.I.Ch.E. Journal, 21, 718 (1980).
  123. "Separation Processes", Second Edition, McGraw-Hill Book Co., 1980. (Second edition of No. 36).
  124. "Retention of Volatile Components during Freeze Drying of Substances containing Emulsified Oils" (with M. R. Etzel). J. Food Technology, 15, 577 (1980).
  125. Book Review: "Coffee Technology" by M. Sivetz and N. W. Desrosier, J. Food Process Engr., 3, 183 (1980).
  126. "An Efficient, General Method for Computation of Countercurrent Separation Processes with Axial Dispersion" (with N. L. Ricker and F. Nakashio). Pres. at AIChE Mtg., Boston, MA, August 1979. A.I.Ch.E. Journal, 27, 277 (1981).
  127. "Precipitate Flotation of Copper as the Sulfide, using Amphoteric Surfactants" (with C. P.

- Beitelshes and H. H. Sephton). Intl. Jour. Mineral Process., 8, 97-110 (1981).
128. Letter to the Editor, Comments on Litchfield and Liapis, Chem. Eng. Sci., 36, 633 (1981).
  129. "Procesos de Separacion" (Spanish Translation of No. 36), Editorial reverté, s.a., Barcelona, Spain, 1980.
  130. "Nowe techniki odwadniania" in Nowe Metody Zageszczaniz Isuszenia Zvwnosci, pp. 428-486, Wydawnictwa Naukowo-Techniczne, Warszawa, 1980. Polish translation of No. 75.
  131. "Comportamiento de Membranas Anisotropicas en Osmosis Directa" (with R. Vega V.). Proceedings 6th Congreso Chileno de Ingenieria Quimica. Santiago, Chile, November 10-13, 1981.
  132. "Solvent Extraction of Phenols from Water" (with D. C. Greminger, G. P. Burns, S. Lynn and D. N. Hanson). Ind. Eng. Chem. Process Des. Dev., 21, 51 (1982).
  133. "Volatiles Loss in the Nozzle Zone during Spray Drying of Emulsions" (with J. A. Zakarian). Ind. Eng. Chem. Process Des. Dev., 21, 107 (1982).
  134. "The Effects of Design and Operating Conditions on Particle Morphology for Spray-Dried Foods" (with C. G. Greenwald). J. Food Process Eng., 4, 171 (1981).
  135. Letter to the Editor: "Use of Underwood Equations", Chemical Engineering, 88, No. 22, 5 (1981).
  136. "Heat and Mass Transport in Food Freezing" (with J. L. Bomben). Proceedings of the Second World Congress of Chemical Engineering, Canadian Instn. Chem. Engrs., Montreal, October 1981, Volume II, pages 344-347.
  137. "Equilibrium Distribution Coefficients for Extraction of Chlorinated Hydrocarbons and Aromatics from Water into Undecane" (with T. A. Barbari). Env. Sci. & Tech., 16, 624-627 (1982).
  138. "Trends in Industrial Separation Processes" Invited Plenary Lecture. Proceedings, Joint Meeting of Chemical Engineering, Vol. 1, 21-32, Chemical Industry & Engineering Society of China and American Institute of Chemical Engineers, Chemical Industry Press, Beijing, PRC, September 1982.
  139. "Mechanism of Stickiness in Hygroscopic, Amorphous Powders" (with G. E. Downton and J. L. Flores-Luna). Ind. Eng. Chem. Fundamentals, 21, 447-451 (1982).
  140. "Diffusion Coefficients of Acetates in Aqueous Sucrose Solutions" (with D. Frey). J. Chem. Eng. Data, 27, 419-422 (1982).
  141. "Heat and Mass Transport in the Freezing of Apple Tissue" (with J. L. Bomben). J. Food Technology, 17, 615-632 (1982).
  142. "The Mechanism of Particle Expansion in Spray Drying of Foods" (with C. Gail Greenwald).

- A.I.Ch.E. Symp. Ser., 78, No. 218, 101-110 (1982).
143. "Acetic Acid Extraction" Chapter for "Handbook of Solvent Extraction", T. C. Lo, M. H. I. Baird and C. Hanson, eds., Wiley-Interscience, (1983) pp. 567-573.
  144. "Direct Osmosis Performance of Anisotropic Membranes" (with Ricardo Vega V.). *Lat. Am. J. Chem. Eng. Appl. Chem.*, 13, 35-49 (1983).
  145. "Physical and Chemical Properties Governing Volatilization of Flavor and Aroma Components, in Physical Properties of Foods" E. Bagley and M. Peleg, eds., AVI Publ. Co., pages 399-421 (1983).
  146. "Cold-Stage Scanning Electron Microscope Measurement of Ice Morphology in Apple Tissue as a Function of Freezing Rate" (with J. L. Bomben and T. L. Hayes). *Cryobiology*, 20, 574-586 (1983).
  147. "Factors Influencing Solvent Selection for Extraction of Ethanol from Aqueous Solutions" (with C. L. Munson), *Proceedings Intl. Solvent Extraction Conference (ISEC'83)*, Am. Inst. Chem. Engrs. New York (1983), pp. 509-510.
  148. "Simultaneous Stripping and Extraction for Recovery of Ammonia from Sour Water" (with P. D. Mackenzie). *Proceedings Intl. Solvent Extraction Conference (ISEC'83)*, Am. Inst. Chem. Engrs., New York (1983), pp. 525-526.
  149. "Solvents for Bulk Removal of Organics from Coal-Conversion Condensate Waters" (with D. H. Mohr, Jr.). *Proceedings Intl. Solvent Extraction Conference (ISEC'83)*, Am. Inst. Chem. Engrs., New York (1983), pp. 211-212.
  150. "Factors Influencing Solvent Selection for Extraction of Ethanol from Aqueous Solution" (with C. L. Munson). *Ind. Eng. Chem. Process Des. & Devel.*, 23, 109-115 (1984).
  151. "Food Quality Factors in Spray Drying" (with T. G. Kieckbusch and C. G. Greenwald), in *Advances in Drying*, A. S. Mujumdar, ed., vol. 3, pp. 71-120, Hemisphere Publ. Co., 1984.
  152. "Loss of Volatile Trace Organics during Spray Drying" (with M. R. Etzel). *Ind. Eng. Chem. Process Des. & Devel.*, 23, 705-710 (1984).
  153. "Solvent Extraction for Removal of Polar-Organic Pollutants from Water" (with D. K. Joshi and J. J. Senetar). *Ind. Eng. Chem. Proc. Des. & Devel.*, 23, 748-754 (1984).
  154. "Transport Processes Affecting Food Quality in Spray Drying" in *Engineering and Food*, B. McKenna, ed., pp. 559-574, Elsevier, Amsterdam (1984).
  155. "Separation of Phenols from Dilute Aqueous Solution by Use of Tri-n-Octyl Phosphine Oxide as Extractant" (with J. D. MacGlashan and J. L. Bixby). *Solvent Extraction and Ion Exchange*, 3, 1-25 (1985).
  156. "Factors Governing Surface Morphology of Spray-Dried Amorphous Substances" (with K.

- Alexander). *Drying Technology*, 3, 321-348 (1985).
157. "Identification of Polar Organic Compounds in Coal-Gasification Condensate Water by Gas Chromatography-Mass Spectrometry Analysis of High-Performance Liquid Chromatography Fractions" (with D. H. Mohr). *Environ. Sci. & Technol.*, 19, 929-935 (1985).
  158. "Combined Solvent Extraction and Stripping for Removal and Isolation of Ammonia from Sour Waters" (with P. D. Mackenzie). *Ind. Eng. Chem. Process Des. & Devel.*, 24, 1192-1200 (1985).
  159. "Freeze Drying, in *Encyclopedia of Chemical Processing and Design*" J. J. McKetta and W. A. Cunningham, eds., Marcel Dekker, Inc., Vol. 23, 438-454 (1985). Republished in J. J. McKetta, ed., *Unit Operations Handbook*, vol. 1, pp. 920-936, Marcel Dekker, Inc., 1993.
  160. Book Review: "Liquid-Liquid Equilibrium and Extraction. A Literature Source Book" Supplement 1, J. Wisniak and A. Tamir, *J. Am. Chem. Soc.*, Vol. 108, 356 (1986).
  161. "Extraction Chemistry of Fermentation Product Carboxylic Acids" (with A. S. Kertes). *Biotechnol. & Bioeng.*, 28, 269-282 (1986).
  162. "Control of Food-Quality Factors during Spray Drying" Plenary Lecture at 4th International Drying Symposium, Kyoto, July 1984, in "Drying '85", R. Toei and A. S. Mujumdar, editors, pp. 59-66, Hemisphere, Washington (1985).
  163. "Effects of Surfactants on Mass Transfer during Spray Drying" (with D. D. Frey). *A.I.Ch.E. Jour.*, 32, 437-443 (1986).
  164. Book Review: "Drying '84", edited by A. S. Mujumdar, in *Int. J. Heat & Fluid Flow*, 6, 2 (1985).
  165. "Using Split-Flow Configurations to Save Energy in Absorber-Stripper Systems" (with R. E. Thompson and M.-L. Wang). *J. Separ. Proc. Technol.*, 5, 32-38 (1984).
  166. "Solvent Extraction of Succinic Acid from Aqueous Solutions" (with J. A. Tamada and A. S. Kertes). *Proc. Intl. Solvent Extraction Conference (ISEC'86)*, 3, 631-638, Dechema, Frankfurt FRG, (1986).
  167. "Experimental and Theoretical Investigation of Foam-Spray Drying. 1. Mathematical Model for the Drying of Foams in the Constant-Rate Period" (with D. D. Frey). *Ind. Eng. Chem. Fundam.*, 25, 723-730 (1986).
  168. "Experimental and Theoretical Investigation of Foam-Spray Drying. 2. Experimental Investigation of Volatiles Loss during Foam-Spray Drying" (with D. D. Frey). *Ind. Eng. Chem. Fundam.*, 25, 730-735 (1986).
  169. Book Review: "Spray Drying Handbook" Fourth Edition, by K. Masters, Halstead Press, New York, 1985, in *A.I.Ch.E. Journal*, 33, 172 (1987).
  170. "Growth of Radially Symmetric Ice in a Supercooled Sucrose Solution" (with J. L. Bomben and J. Newman). *Ind. Eng. Chem. Res.*, 26, 23-27 (1987).

171. "Energy Conservation in Regenerated Chemical Absorption Processes" (with R. E. Thompson). *Chem. Engr. and Proc.*, 21, 115 (1987).
172. "Separation Processes Based on Reversible Chemical Complexation", Chapter 15 in *Handbook of Separation Process Technology*, R. W. Rousseau, ed., Wiley, (1987), pages 760-774.
173. Book Review: "Engineering Properties of Foods", M. A. Rao and S. S. H. Rizvi, eds., *Chem. Eng. Educ.*, 21, No. 2, 66-67 (1987).
174. "Non-Wetting Adsorbents for Recovery of Solutes from Aqueous Solution" (with W. G. Rixey), in "Fundamentals of Adsorption", A. I. Liapis, ed., Engineering Foundation, New York, (1987), pp. 503-513.
175. "Use of Adsorbents for Recovery of Acetic Acid from Aqueous Solutions. Part I - Factors Governing Capacity" (with Y. Kuo, C. L. Munson, W. G. Rixey, A. A. Garcia, and M. Frierman). *Separation and Purification Methods*, 16, 31-64 (1987).
176. "Use of Adsorbents for Recovery of Acetic Acid from Aqueous Solutions. Part II - Factors Governing Selectivity" (with C. L. Munson, A. A. Garcia, Y. Kuo, and M. Frierman). *Separation and Purification Methods*, 16, 65-89 (1987).
177. "Use of Adsorbents for Recovery of Acetic Acid from Aqueous Solutions. Part III - Solvent Regeneration" (with M. Frierman, Y. Kuo, D. Joshi, and A. A. Garcia). *Separation and Purification Methods*, 16, 91-102 (1987).
178. "Extraction Chemistry of Low Molecular Weight Aliphatic Alcohols" (with A. S. Kertes). *Chem. Rev.*, 87, 687-710 (1987).
179. "Recovery of Biologically Produced Chemicals: Regeneration of Adsorber Beds by Entrainer Distillation and/or Esterification Directly on the Bed" (with P. A. Sanchez and Y. Kawano). *Ind. Eng. Chem. Res.*, 26, 1880-1887 (1987).
180. "Solvent Extraction of Industrial Organic Substances from Aqueous Streams" (with J. J. Senetar), in *Ion Exchange and Solvent Extraction*, Vol. 10, J. A. Marinsky and Y. Marcus, eds., Marcel Dekker, New York, (1988), pp. 1-61.
181. "Separation & Purification: Critical Needs and Opportunities" (with Committee on Separation Science and Technology). National Research Council Report, National Academy Press, Washington, D.C., (1987), 100 pp.
182. "Unit Operations" McGraw-Hill Encyclopedia of Science & Technology, 6th Edition, Volume 19, New York (1987) p. 47.
183. "Sticking and Agglomeration of Hygroscopic, Amorphous Carbohydrate and Food Powders" (with D. A. Wallack). *Biotechnol. Prog.*, 4, 31-35 (1988).
184. "Spray Drying of Food Liquids and Volatiles Retention", in S. Bruin, ed., *Preconcentration and*

- Drying of Food Materials, pp. 147-162, Elsevier, Amsterdam, (1988).
185. Book Review: "Gas Separation by Adsorption Processes", by R. T. Yang, in *American Scientist*, 76, 294 (1988).
  186. "Recovery of Polar Organic Substances by Solvent Extraction Processes Utilizing Reversible Complexation, Proc. Intl. Solvent Extr. Conf., (ISEC'88), v. 1, pp. 19-24, USSR Academy of Sciences, Moscow, Nauka, (1988).
  187. "Extraction of Carboxylic Acids from Aqueous Solution by Means of Tertiary Amine Extractants: Equilibria and Processing Alternatives" (with J. A. Tamada and A. S. Kertes), Proc. Intl. Solvent Extr. Conf., (ISEC'88), v. 3, pp. 316-319, USSR Academy of Sciences, Moscow, Nauka, (1988).
  188. "Extraction of Ethanol by Phenols" (with D. R. Arenson and A. S. Kertes), Proc. Intl. Solvent Extr. Conf., (ISEC'88), v. 3, pp. 320-323, USSR Academy of Sciences, Moscow, Nauka, (1988).
  189. "Air Temperature and Humidity Profiles in Spray Drying: I - Features Predicted by the PSI-Cell Model" (with S. Papadakis), *Ind. Eng. Chem. Research*, 27, 2111-2116 (1988).
  190. "Air Temperature and Humidity Profiles in Spray Drying: II - Experimental Measurements" (with S. Papadakis), *Ind. Eng. Chem. Research*, 27, 2116-2123 (1988).
  191. "Extraction of Butanol Isomers by m-Cresol" (with D. R. Arenson and A. S. Kertes), *Jour. of Sol. Chem.*, 17, 1119-1132 (1988).
  192. "Separation Processes: Introduction, Section 1" 1, *Ullmann's Encyclopedia of Industrial Chemistry*, 5th ed., VCH Publishers, Inc., Weinheim, West Germany, Vol. B3, (1988).
  193. "Separations in Coffee Processing, in *Chemical Engineering Education in a Changing Environment*", S. L. Sandler and B. A. Finlayson, editors, Engineering Foundation, (1988), pp 437-448.
  194. "Fixed-Bed, Multi-Solute Characteristics of Non-Wet Adsorbents" (with W. G. Rixey), *A.I.Ch.E. Jour.*, 35, 69-74 (1989).
  195. "The Use of Basic Polymeric Sorbents for the Recovery of Acetic Acid from Dilute Aqueous Solution" (with A. A. Garcia), *Ind. Eng. Chem. Research*, 28, 204-212 (1989).
  196. "Wetting and Adsorption Properties of Hydrophobic, Macroreticular, Polymeric Adsorbents" (with W. G. Rixey), *J. Colloid & Interface Chem.*, 131, 320-332 (1989).
  197. "Mechanism of Irreversible Adsorption of Phenolic Compounds by Activated Carbons" (with T. M. Grant), *Ind. Eng. Chem. Research*, 29, 264-271, (1990).
  198. "Extraction of Ethanol from Aqueous Solution with Phenolic Extractants" (with D. R. Arenson, A. S. Kertes), *Ind. Eng. Chem. Res.*, 29, 607-613 (1990).

199. "Spray Drying Food Liquids and the Retention of Volatiles" Chem. Eng. Progress, Vol. 86, No. 6, 33-39 (1990). [Reprint of No. 184]
200. "Extraction of Carboxylic Acids with Amine Extractants. 1. Equilibria and Law-of-Mass-Action Modeling" (with J. A. Tamada and A. S. Kertes), Ind. Eng. Chem. Research, 29, 1319-1326 (1990).
201. "Extraction of Carboxylic Acids with Amine Extractants. 2. Chemical Interactions and Interpretation of Data" (with J. A. Tamada), Ind. Eng. Chem. Research, 29, 1327-1333 (1990).
202. "Extraction of Carboxylic Acids with Amine Extractants. 3. Effect of Temperature, Water Co-extraction and Process Considerations, (with J. A. Tamada), Ind. Eng. Chem. Research, 29, 1333-1338 (1990).
203. "Regeneration of Carboxylic Acid Extracts" (with J. N. Starr, L. J. Poole and J. A. Tamada), Proceedings, Intl. Solvent Extraction Conference (ISEC'90), Kyoto, Japan, July (1990).
204. "The Mechanisms of Transport of Water and n-Propanol through Pulp and Paper" (with B. Liang and R. J. Fields), Drying Technol., 8, 641-665 (1990).
205. "Changes in Particle Morphology During Drying of Drops: I. Effects of Composition and Drying Conditions" (with T. M. El-Sayed and D. A. Wallack), Ind. Eng. Chem. Research, 29, 2346-2354 (1990).
206. "Changes in Particle Morphology During Drying of Drops: II. Effects on Drying Rate" (with D. A. Wallack and T. El-Sayed), Industrial and Engineering Chemistry Research, 29, 2354-2357 (1990).
207. "Separations in the Production of High-Volume Fuels and Chemicals by Biological Processing" Proceedings of Intersociety Energy Conversion Engineering Conference (IECEC), Reno, NV, 3, 509-513 (1990).
208. "Factors Influencing Flow Patterns, Temperature Fields and Consequent Drying Rates in Spray Drying" (with B. Liang), Drying Technol., 9, 1-25 1991.
209. "An Improved Extractant for Separation of Ammonia from Sour Waters by Combined Stripping and Extraction" (with L. J. Poole), Solvent Extraction and Ion Exchange, 9, 103-125, 1991.
210. "Regeneration of Carboxylic Acid-Amine Extracts by Back-Extraction with an Aqueous Solution of a Volatile Amine" (with L. J. Poole), Ind. Eng. Chem. Res., 30, 923-929, 1991.
211. "Amine-based System for Carboxylic Acid Recovery; Tertiary amines and the proper choice of diluent allow extraction and recovery from water", CHEMTECH, 285-291, (May 1992).
212. "The Influence of the Development of Particle Morphology Upon Rates of Loss of Volatile Solutes During Drying of Drops" (with J. Sunkel), Proceedings, International Drying Symposium (IDS'92), Montreal, Canada, August, (1992).

213. "Measurement of Instantaneous Rates of Loss of Volatile Compounds During Drying of Drops" (with P. A. Verderber), *Drying Technology*, 10, 875-891 (1992).
214. "Water Enhanced Solubility of Carboxylic Acids in Organic Solvents and Its Application to Extraction Processes" (with J. N. Starr), *I&EC Research, Ind. Eng. Chem. Res.*, 31, 2573-2579 (1992).
215. "Separation Technology in Japan (with E. L. Cussler, W. Eykamp, G. E. Keller & M. E. Wadsworth), Japanese Technology Evaluation Center Panel Report, National Science Foundation and International Technology Research Institute, Loyola College, (March 1993), pp. 143.
216. "Solvent Extraction in the Process Industries: Quo Vadis?", *Proceedings, ISEC'93: The International Solvent Extraction Conference, Society of Chemical Industry, London, Vol. 1*, pp 3-14, (September 9-15, 1993).
217. "Regenerable Extraction and Sorption of Carboxylic Acids from Aqueous Solutions at  $\text{pH} > \text{pK}_a$ " (with L. A. Tung), *Proceedings of ISEC'93: The International Solvent Extraction Conference, Society of Chemical Industry, London, Vol. 2*, pp. 1010-1017, (September 1993).
218. "The Influence of the Development of Particle Morphology Upon Rates of Loss of Volatile Solutes During Drying of Drops" (with J. M. Sunkel), *Ind. Eng. Chem. Res.*, 32, 2357-2364, (1993).
219. "Water Enhanced Solvation of Organic Solutes in Ketone and Ester Solvents" (with J. H. Lee and V. Van Brunt), *Ind. Eng. Chem. Res.*, 33, 1373-1379 (1994).
220. "Ion-Pair Extraction of Multi-OH Compounds by Complexation with Organoboronate" (with L. A. Randel and T.K-F.Chow), *Solvent Extraction and Ion Exchange*, 1, 765-778 (1994).
221. "Sorption and Extraction of Lactic and Succinic Acids at  $\text{pH} > \text{pK}_{a1}$ , I. Factors Governing Equilibria" (with L. A. Tung), *Ind. Eng. Chem. Res.*, 33, 3217-3223 (1994).
222. "Sorption and Extraction of Lactic and Succinic Acids at  $\text{pH} > \text{pK}_{a1}$ , II. Regeneration and Process Considerations" (with L. A. Tung), *Ind. Eng. Chem. Res.*, 33, 3224-3229 (1994).
223. "Recovery of Propylene Glycol from Dilute Aqueous Solutions via Reversible Reaction with Aldehydes" (with R. R. Broekhuis and S. Lynn), *Ind. Eng. Chem. Res.*, 33, 3230-3237 (1994).
224. "Extraction and Sorption of Acetic Acid at  $\text{pH}$  above  $\text{pK}_a$  to Form Calcium Magnesium Acetate" (with H. Reisinger), *Ind. Eng. Chem. Res.* 34, 845-852 (1995).
225. "Spray Drying: Retention of Volatile Compounds Revisited" *Drying Technology*, 13, 1221-1240 (1995).
226. "Spray Drying, Food Liquids" in J. J. McKetta, ed., "Encyclopedia of Chemical Processing and Design", vol. 53, pp. 32-44, Marcel Dekker, New York, (1995).

227. "Where is the Research University Headed?" CHEMTECH, 14-18, (1995).
228. "Chemically Assisted Solvent Extraction in Downstream Processing of Natural Products" M. Verrall, ed., Wiley, Chichester, (1996).
229. "Recovery of Propylene Glycol from Dilute Aqueous Solutions by Complexation with Organoboronates in Ion-Pair Extractants" (with R. R. Broekhuis and S. Lynn), Ind. Eng. Chem. Res., 35, 1206-1214 (1996).
230. "Selectivity between Lactic Acid and Glucose during Recovery of Lactic Acid with Basic Extractants and Polymeric Sorbents" (with Y. Dai), Ind. Eng. Chem. Res., 35, 1215-1224 (1996).
231. "Effect of Carbon Adsorbent Surface Properties on the Uptake and Solvent Regeneration of Phenol" (with J.E. Kilduff), Ind. Eng. Chem. Res., 36, 1603-1613 (1997).
232. "Distillation" McGraw-Hill Encyclopedia of Science & Technology, 8th Edition, Volume 5, New York (1997) p. 379.
233. "Visualization of Spray Dynamics in a Pilot Spray Dryer by Laser-Initiated Fluorescence" (with S. S. Moor), Ind. Eng. Chem. Res., 37, 561-568 (1998).
234. "Regeneration of Lactic and Succinic Acid-Laden Basic Sorbents by Leaching with a Volatile Base in an Organic Solvent" (with S. M. Husson), Ind. Eng. Chem. Res., 37, 2996-3005 (1998).
235. "The Research University of the Twenty-First Century," The Electrochemical Society *Interface* , 7, No. 2, 17-21 (1998).
236. "Multiple-acid Equilibria in Adsorption of Carboxylic Acids from Dilute Aqueous Solution" (with S. M. Husson), Ind. Eng. Chem. Res., 38, 502-511(1999).
237. "Carbon Dioxide-sustained Adsorption of Lactic Acid at  $\text{pH} > \text{pK}_a$  of the Acid" (with S. M. Husson), Ind. Eng. Chem. Res., 38, 1625-1632 (1999).
238. "Adsorption of Glycols, Sugars and Related Multiple-OH Compounds onto Activated Carbons: I. Adsorption Mechanisms" (with D. Chinn), Ind. Eng. Chem. Res., 38, 3738-3745 (1999).
239. "Adsorption of Glycols, Sugars and Related Multiple-OH Compounds onto Activated Carbons: II. Solvent Regeneration" (with D. Chinn), Ind. Eng. Chem. Res., 38, 3746-3753 (1999).
240. "Spray Drying: The Influence of Developing Drop Morphology on Drying Rates and Retention of Volatile Substances: I. Single-Drop Experiments" (with J. P. Hecht), Ind. Eng. Chem. Res., 39, 1756-1765 (2000).
241. "Spray Drying: The Influence of Developing Drop Morphology on Drying Rates and Retention of Volatile Substances: II. Modeling" (with J. P. Hecht), Ind. Eng. Chem. Res., 39, 1766-1774 (2000).

242. “From Unit Operations to Separation Processes”, *Separ. & Purif. Methods*, 29, 233-245 (2000).
243. ”Guest Editorial: Research on Drying”, *Drying Technology*, 25, 11 (2007).

[SCHOLARSHIP IN HIGHER EDUCATION RESEARCH AND POLICY, 2004 ONWARD]

244. “An Analysis of Alternatives for Gaining Capacity so as to Maintain Access to the University of California”, Research and Occasional Papers Series No. 5.06, Center for Studies in Higher Education, University of California, Berkeley (March 2006).  
<http://cshe.berkeley.edu/publications/docs/ROP.King.5.06.pdf>
245. “Let Engineers Go to College”, *Issues in Science and Technology*, 22, No. 4, 25-28. (2006).  
[http://www.issues.org/22.4/p\\_king.html](http://www.issues.org/22.4/p_king.html).
246. “The Influence of Academic Values on Scholarly Publication and Communication” (with H. Harley, S. Earl-Novell, J. Arter and S. Lawrence), Research and Occasional Papers Series No. 13.06, Center for Studies in Higher Education, University of California, Berkeley (September 2006). *J. Electronic Publishing* in press, 2007.  
<http://cshe.berkeley.edu/publications/publications.php?id=232>
247. “University Roles in Technological Innovation in California”, presented at From Lab to Market: Accelerating Innovation through University, Business, and Government Partnership, 441<sup>st</sup> Salzburg Seminar, Salzburg, Austria, April, 2007.  
<http://cshe.berkeley.edu/events/crisis/docs/king1.pdf>

(Updated 4/8/07)

