

Ronald P Danner

List of Publications by Year in descending order

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73
papers

1,648
citations

331259

21
h-index

329751

37
g-index

76
all docs

76
docs citations

76
times ranked

870
citing authors

#	ARTICLE	IF	CITATIONS
1	A gas adsorption isotherm equation based on vacancy solution theory. AICHE Journal, 1980, 26, 68-76.	1.8	186
2	Vacancy solution theory of adsorption from gas mixtures. AICHE Journal, 1980, 26, 76-83.	1.8	162
3	Application of the group contribution lattice-fluid EOS to polymer solutions. AICHE Journal, 1990, 36, 1625-1632.	1.8	86
4	Prediction of polymer-solvent phase equilibria by a modified group-contribution EOS. AICHE Journal, 1996, 42, 837-849.	1.8	74
5	Chromatographic study of alkanes in silicalite: Equilibrium properties. AICHE Journal, 1993, 39, 954-961.	1.8	65
6	Diffusion of toluene and n-heptane in polyethylenes of different crystallinity. Polymer, 1999, 40, 2797-2803.	1.8	63
7	An improved corresponding states method for polar fluids: Correlation of second virial coefficients. AICHE Journal, 1977, 23, 685-695.	1.8	61
8	Influence of the Glass Transition on Solute Diffusion in Polymers by Inverse Gas Chromatography. Industrial & Engineering Chemistry Research, 1995, 34, 2833-2840.	1.8	45
9	Polymer-solvent diffusion and equilibrium parameters by inverse gas-liquid chromatography. AICHE Journal, 1993, 39, 625-635.	1.8	43
10	A critical review of correlations for the critical properties of defined mixtures. AICHE Journal, 1973, 19, 522-527.	1.8	36
11	New Pressure-Decay Techniques to Study Gas Sorption and Diffusion in Polymers at Elevated Pressures. Industrial & Engineering Chemistry Research, 2004, 43, 1537-1542.	1.8	35
12	Chromatographic study of alkanes in silicalite: Transport properties. AICHE Journal, 1993, 39, 962-974.	1.8	31
13	Finite concentration inverse gas chromatography: Diffusion and partition measurements. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 1279-1290.	2.4	30
14	Diffusion and Equilibrium Measurements in Ternary Polymer-Solvent-Solvent Systems Using Inverse Gas Chromatography. Industrial & Engineering Chemistry Research, 1998, 37, 3203-3207.	1.8	30
15	Correlation of liquid heat capacities with a four-parameter corresponding states method. AICHE Journal, 1976, 22, 759-765.	1.8	27
16	Application of the group-contribution lattice-fluid equation of state to random copolymer-solvent systems. Fluid Phase Equilibria, 1996, 117, 33-39.	1.4	27
17	Solubility and Diffusivity of Solvents and Nonsolvents in Polysulfone and Polyetherimide. Industrial & Engineering Chemistry Research, 2001, 40, 3058-3064.	1.8	27
18	Evaluation of inverse gas chromatography for prediction and measurement of diffusion coefficients. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 1233-1240.	2.4	26

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19	Vapor-Liquid Equilibria of Water, Methanol, and Methyl Acetate in Poly(vinyl acetate) and Partially and Fully Hydrolyzed Poly(vinyl alcohol). <i>Macromolecules</i> , 2004, 37, 6189-6196.	2.2	25
20	Elastic effects on solubility in semicrystalline polymers. <i>Journal of Applied Polymer Science</i> , 2008, 107, 138-146.	1.3	23
21	Measuring and correlating diffusivity in polymer-solvent systems using free-volume theory. <i>Fluid Phase Equilibria</i> , 2014, 362, 19-27.	1.4	23
22	Group-contribution lattice-fluid EOS: Prediction of LLE in polymer solutions. <i>AIChE Journal</i> , 1996, 42, 3223-3230.	1.8	22
23	Application of inverse gas chromatography to the measurement of diffusion and phase equilibria in polyacrylate-solvent systems. <i>Journal of Chromatography A</i> , 1999, 845, 93-101.	1.8	22
24	Applications of the group-contribution, lattice-fluid equation of state. <i>Fluid Phase Equilibria</i> , 2002, 194-197, 619-639.	1.4	21
25	Prediction of infinite dilution solvent activity coefficients in polymer solutions: comparison of prediction models. <i>Fluid Phase Equilibria</i> , 1997, 128, 97-114.	1.4	19
26	Solvent diffusion in amorphous polymers: Polyvinyl acetate-toluene system. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 2429-2435.	2.4	18
27	Diffusion and Sorption in Ethylene-Propylene Copolymers: Comparison of Experimental Methods. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 2483-2491.	1.8	15
28	An improved corresponding states method for liquid heat capacities. <i>AIChE Journal</i> , 1977, 23, 944-946.	1.8	14
29	Use of Inverse Gas Chromatography To Study Binary Polymer-Solvent Systems near the Glass Transition Temperature. <i>Macromolecules</i> , 2004, 37, 9201-9210.	2.2	14
30	Solvent diffusion in amorphous polymers: Polystyrene-solvent systems. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 1965-1974.	2.4	13
31	Solubility of solvents in polyethylene below the melt temperature. <i>Fluid Phase Equilibria</i> , 2018, 470, 68-74.	1.4	13
32	A comparison of enthalpy prediction methods. <i>AIChE Journal</i> , 1976, 22, 409-411.	1.8	12
33	Prediction of solubility parameters using the group-contribution lattice-fluid theory. <i>Journal of Applied Polymer Science</i> , 2001, 80, 197-206.	1.3	12
34	Solubility and diffusivity of cyclohexane in high density polyethylene. <i>Journal of Applied Polymer Science</i> , 2012, 124, 4315-4321.	1.3	12
35	Solubility and Diffusivity of Propylene and Ethylene in Atactic Polypropylene by the Static Sorption Technique. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 9943-9950.	1.8	11
36	Diffusivity of solvents in semi-crystalline polyethylene using the Vrentas-Duda free-volume theory. <i>Journal of Polymer Engineering</i> , 2018, 38, 925-931.	0.6	11

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37	Application of mass spectrometer-inverse gas chromatography to study polymer-solvent diffusivity and solubility. <i>Journal of Chromatography A</i> , 2007, 1157, 399-407.	1.8	10
38	Determination of thermodynamic and transport properties of a polystyrene-co-acrylonitrile copolymer by infinite and finite concentration IGC. <i>Polymer</i> , 2008, 49, 2873-2879.	1.8	10
39	Solubility of water and acetone in hypromellose acetate succinate, HPMCAS-L. <i>Fluid Phase Equilibria</i> , 2016, 429, 227-232.	1.4	10
40	Application of the Vrentas-Duda free-volume theory of diffusion below the glass-transition temperature: Application to hypromellose acetate succinate-solvent systems. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47351.	1.3	10
41	Phase equilibrium and diffusion of solvents in polybutadiene: A capillary-column inverse gas chromatography study. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 1046-1055.	2.4	9
42	Diffusion of Solvents in Polybutadiene Rubber Using Capillary Column Inverse Gas Chromatography. <i>Rubber Chemistry and Technology</i> , 1996, 69, 234-244.	0.6	9
43	The Continuous Foam Fractionation of Phenol. <i>Separation Science</i> , 1973, 8, 179-184.	0.7	8
44	Ternary phase equilibria of polystyrene with a second polymer and a solvent. <i>Journal of Applied Polymer Science</i> , 1993, 47, 565-575.	1.3	8
45	Solubility and diffusivity of solvents by packed column inverse gas chromatography. <i>Polymer</i> , 2006, 47, 5364-5370.	1.8	8
46	A Static Sorption Technique for Vapor Solubility Measurements. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 1557-1562.	1.8	7
47	Mechanism of bubble formation in the drying of polymer films. <i>Journal of Applied Polymer Science</i> , 2009, 111, 417-428.	1.3	7
48	Measurement of the solubility and diffusivity of blowing agents in polystyrene. <i>Journal of Applied Polymer Science</i> , 2010, 116, 2359-2365.	1.3	7
49	Diffusion of solvents in poly(vinyl acetate) and partially and fully hydrolyzed poly(vinyl alcohol). <i>Polymer International</i> , 2014, 63, 221-227.	1.6	6
50	Prediction of polymer PVT behavior using the group contribution lattice-fluid EOS. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 395-402.	2.4	5
51	Effect of blend composition on diffusivity and solubility of small molecules in polystyrene/poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overbo	2.4	5
52	Solubility and diffusivity measurements in nitrogen-poly(vinyl acetate) and nitrogen-toluene-poly(vinyl acetate) systems with the differential pressure decay technique. <i>Journal of Applied Polymer Science</i> , 2008, 108, 1407-1413.	1.3	5
53	Multicomponent Inverse Gas Chromatography: Determination of Solubility and Diffusivity in Ternary Polymer-Solvent Systems. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 4966-4974.	1.8	5
54	Solubility of organic solvents in 1,4-cis-polybutadiene. <i>Fluid Phase Equilibria</i> , 2012, 334, 10-14.	1.4	5

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55	Modeling of an IGC experiment to analyze ternary polymer-solvent systems. <i>AICHE Journal</i> , 2005, 51, 2930-2941.	1.8	4
56	Influence of high pressure gases on polymer-solvent thermodynamic and transport behavior. <i>Journal of Applied Polymer Science</i> , 2008, 110, 1632-1641.	1.3	4
57	Solubility predictions for copolymer systems. <i>Fluid Phase Equilibria</i> , 2009, 280, 88-93.	1.4	4
58	Spray Drying of Hypromellose Acetate Succinate. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 12291-12300.	1.8	4
59	Ternary phase equilibria of tetrahydrofuran-polystyrene-polytetrahydrofuran. <i>Journal of Applied Polymer Science</i> , 1993, 50, 251-258.	1.3	3
60	A simplified approach to vapor-liquid equilibria calculations with the group-contribution lattice-fluid equation of state. <i>Fluid Phase Equilibria</i> , 2007, 259, 116-122.	1.4	3
61	Solubility and diffusivity of cyclohexane in two different polyethylenes. <i>Polymer Engineering and Science</i> , 2015, 55, 688-692.	1.5	3
62	Application of finite inverse gas chromatography in hypromellose acetate succinate-water-acetone systems. <i>Journal of Chromatography A</i> , 2016, 1466, 166-172.	1.8	3
63	Gas mixture adsorption on molecular sieves. <i>AICHE Journal</i> , 1973, 19, 870-870.	1.8	2
64	Computer calculations for multicomponent vapour-liquid and liquid-liquid equilibria. J. M. Prausnitz, T. F. Anderson, E. A. Grens, C. A. Eckert, R. Hsieh and J. P. O'Connell, Prentice-Hall, Englewood Cliffs, New Jersey(1980), 353 pages,\$24.95. <i>AICHE Journal</i> , 1981, 27, 173-173.	1.8	2
65	A lattice-fluid, group-contribution treatment of the glass transition of homopolymers, copolymers, and polymer solutions. <i>Journal of Applied Polymer Science</i> , 2003, 89, 697-705.	1.3	2
66	Solubility of carbon dioxide and cosolvents in a photoresist polymer. <i>Journal of Applied Polymer Science</i> , 2008, 108, 1865-1870.	1.3	2
67	Effect of water on the solubility and diffusivity of hydrocarbons in polyethylene. <i>Polymer Engineering and Science</i> , 2015, 55, 1459-1462.	1.5	2
68	Solvent-induced crystal formation in polymers: Experimental studies and theoretical modeling of poly(vinyl alcohol) based on free-volume concepts. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	2
69	AN IMPROVED TRACER-PULSE METHOD FOR MEASUREMENT OF GAS ADSORPTION EQUILIBRIA. <i>Chemical Engineering Communications</i> , 1984, 26, 11-24.	1.5	1
70	Thermodynamic studies related to emulsion polymerization. <i>Journal of Applied Polymer Science</i> , 2007, 104, 2092-2099.	1.3	1
71	Evaluation of inverse gas chromatography for prediction and measurement of diffusion coefficients. , 1997, 35, 1233.		1
72	Finite concentration inverse gas chromatography: Diffusion and partition measurements. , 1997, 35, 1279.		1

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73	Effect of high pressure carbon dioxide on the solubility and diffusivity of dichloromethane in polyetherimide. Journal of Applied Polymer Science, 2009, 114, 2497-2501.	1.3	0