Gabriele Sadowski

List of Publications by Year
in descending order

314 papers	13,681 citations	29994 54 h-index	28224 105 g-index
327 all docs	327 docs citations	327 times ranked	5557 citing authors

#	Article	IF	Citations
1	Perturbed-Chain SAFT:â€‰ An Equation of State Based on a Perturbation Theory for Chain Molecules. Industrial & Engineering Chemistry Research, 2001, 40, 1244-1260.	1.8	2,786
2	Application of the Perturbed-Chain SAFT Equation of State to Associating Systems. Industrial & Engineering Chemistry Research, 2002, 41, 5510-5515.	1.8	1,016
3	Modeling Polymer Systems Using the Perturbed-Chain Statistical Associating Fluid Theory Equation of State. Industrial & Engineering Chemistry Research, 2002, 41, 1084-1093.	1.8	357
4	Application of perturbation theory to a hard-chain reference fluid: an equation of state for square-well chains. Fluid Phase Equilibria, 2000, 168, 183-199.	1.4	294
5	Modeling of Aqueous Electrolyte Solutions with Perturbed-Chain Statistical Associated Fluid Theory. Industrial & Engineering Chemistry Research, 2005, 44, 3355-3362.	1.8	265
6	Modeling Copolymer Systems Using the Perturbed-Chain SAFT Equation of State. Industrial & Engineering Chemistry Research, 2003, 42, 1266-1274.	1.8	191
7	Solubility of Amino Acids:â€‰ Influence of the pH value and the Addition of Alcoholic Cosolvents on Aqueous Solubility. Industrial & Engineering Chemistry Research, 2006, 45, 6578-6584.	1.8	186
8	Modeling the Solubility of Pharmaceuticals in Pure Solvents and Solvent Mixtures for Drug Process Design. Journal of Pharmaceutical Sciences, 2009, 98, 4205-4215.	1.6	177
9	Modeling aqueous electrolyte solutions. Fluid Phase Equilibria, 2008, 270, 87-96.	1.4	173
10	ePC-SAFT revised. Chemical Engineering Research and Design, 2014, 92, 2884-2897.	2.7	158
11	Application of the Perturbed-Chain SAFT equation of state to polar systems. Fluid Phase Equilibria, 2004, 217, 233-239.	1.4	156
12	Modeling of Polar Systems Using PCP-SAFT:â€‰ An Approach to Account for Induced-Association Interactions. Journal of Physical Chemistry C, 2007, 111, 15544-15553.	1.5	154
13	Measuring and Modeling Activity Coefficients in Aqueous Amino-Acid Solutions. Industrial & Engineering Chemistry Research, 2011, 50, 131-141.	1.8	129
14	Modeling imidazolium-based ionic liquids with ePC-SAFT. Fluid Phase Equilibria, 2012, 335, 64-73.	1.4	128
15	Modeling of polymer phase equilibria using Perturbed-Chain SAFT. Fluid Phase Equilibria, 2002, 194-197, 541-551.	1.4	124
16	Modeling of aqueous amino acid and polypeptide solutions with PC-SAFT. Chemical Engineering and Processing: Process Intensification, 2008, 47, 1018-1025.	1.8	124
17	Thermodynamic modeling of complex systems using PC-SAFT. Fluid Phase Equilibria, 2005, 228-229, 89-98.	1.4	122
18	Thermodynamic Phase Behavior of API/Polymer Solid Dispersions. Molecular Pharmaceutics, 2014, 11, 2294-2304.	2.3	121

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19	Design of Contactâ€Active Antimicrobial Acrylateâ€Based Materials Using Biocidal Macromers. Advanced Materials, 2008, 20, 104-108.	11.1	120
20	PC-SAFT Modeling of CO₂ Solubilities in Deep Eutectic Solvents. Journal of Physical Chemistry B, 2016, 120, 2300-2310.	1.2	110
21	Hydroformylation of 1-Dodecene in the Thermomorphic Solvent System Dimethylformamide/Decane. Phase Behaviorâ€"Reaction Performanceâ€"Catalyst Recycling. Industrial & Engineering Chemistry Research, 2012, 51, 10296-10306.	1.8	108
22	Long-Term Physical Stability of PVP- and PVPVA-Amorphous Solid Dispersions. Molecular Pharmaceutics, 2017, 14, 157-171.	2.3	108
23	Modeling of Polar Systems with the Perturbed-Chain SAFT Equation of State. Investigation of the Performance of Two Polar Terms. Industrial & Engineering Chemistry Research, 2005, 44, 6928-6938.	1.8	103
24	Measuring and modeling aqueous electrolyte/amino-acid solutions with ePC-SAFT. Journal of Chemical Thermodynamics, 2014, 68, 1-12.	1.0	97
25	Modeling aqueous electrolyte solutions. Part 2. Weak electrolytes. Fluid Phase Equilibria, 2009, 279, 141-148.	1.4	90
26	Compatible solutes: Thermodynamic properties and biological impact of ectoines and prolines. Biophysical Chemistry, 2010, 152, 28-39.	1.5	90
27	Liquidâ€"Liquid Equilibria of 1-Butanol/Water/IL Systems. Industrial & Engineering Chemistry Research, 2013, 52, 18472-18481.	1.8	90
28	Measurement and PC-SAFT modeling of solid-liquid equilibrium of deep eutectic solvents of quaternary ammonium chlorides and carboxylic acids. Fluid Phase Equilibria, 2017, 448, 69-80.	1.4	88
29	Measurement and modelling of high-pressure phase equilibria in the systems polyethyleneglycol (PEG)â€"propane, PEGâ€"nitrogen and PEGâ€"carbon dioxide. Journal of Supercritical Fluids, 2000, 17, 1-12.	1.6	87
30	Solvent-Sensitive Reversible Stress-Response of Shape Memory Natural Rubber. ACS Applied Materials & Interfaces, 2013, 5, 3504-3507.	4.0	86
31	Modeling of Aqueous Poly(oxyethylene) Solutions:â€‰ 1. Atomistic Simulations. Journal of Physical Chemistry B, 2008, 112, 2388-2398.	1.2	83
32	Vaporâ€"Liquid Equilibria of Water + Alkylimidazolium-Based Ionic Liquids: Measurements and Perturbed-Chain Statistical Associating Fluid Theory Modeling. Industrial & Engineering Chemistry Research, 2014, 53, 3737-3748.	1.8	82
33	Influence of Copolymer Composition on the Phase Behavior of Solid Dispersions. Molecular Pharmaceutics, 2014, 11, 4189-4198.	2.3	82
34	Crowders and Cosolventsâ€"Major Contributors to the Cellular Milieu and Efficient Means to Counteract Environmental Stresses. ChemPhysChem, 2017, 18, 2951-2972.	1.0	82
35	Impact of Polymer Type and Relative Humidity on the Long-Term Physical Stability of Amorphous Solid Dispersions. Molecular Pharmaceutics, 2017, 14, 4374-4386.	2.3	81
36	Separations and Material Processing in Solutions with Dense Gases. Industrial & Engineering Chemistry Research, 1998, 37, 3208-3220.	1.8	74

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37	PC-SAFT modeling of CO 2 solubilities in hydrophobic deep eutectic solvents. Fluid Phase Equilibria, 2017, 448, 94-98.	1.4	70
38	Measurement and Modeling Solubility of Aqueous Multisolute Amino-Acid Solutions. Industrial & Engineering Chemistry Research, 2010, 49, 1395-1401.	1.8	69
39	Determination of the Total Vapor Pressure of Hydrophobic Deep Eutectic Solvents: Experiments and Perturbed-Chain Statistical Associating Fluid Theory Modeling. ACS Sustainable Chemistry and Engineering, 2019, 7, 4047-4057.	3.2	69
40	Cloud-point curves of ethyleneâˆ’(meth)acrylate copolymers in fluid ethene up to high pressures and temperaturesâ€”experimental study and PCâ€“SAFT modeling. Fluid Phase Equilibria, 2004, 215, 263-282.	1.4	67
41	Solubility of Sugars and Sugar Alcohols in Ionic Liquids: Measurement and PC-SAFT Modeling. Journal of Physical Chemistry B, 2013, 117, 9980-9995.	1.2	67
42	Solubility of Pharmaceuticals and Their Salts As a Function of pH. Industrial & Engineering Chemistry Research, 2013, 52, 2721-2731.	1.8	66
43	Experimental investigation and prediction of oiling out during crystallization process. Journal of Crystal Growth, 2008, 310, 4163-4168.	0.7	65
44	Modeling imidazolium-based ionic liquids with ePC-SAFT. Part II. Application to H2S and synthesis-gas components. Fluid Phase Equilibria, 2014, 363, 59-65.	1.4	65
45	Predicting the Solubility Advantage of Amorphous Pharmaceuticals: A Novel Thermodynamic Approach. Molecular Pharmaceutics, 2015, 12, 2823-2833.	2.3	65
46	Measuring and modeling alcohol/salt systems. Chemical Engineering Science, 2012, 68, 328-339.	1.9	64
47	Influence of humidity on the phase behavior of API/polymer formulations. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 94, 352-362.	2.0	64
48	Fickian and Non-Fickian Sorption Kinetics of Toluene in Glassy Polystyrene. Macromolecules, 2005, 38, 8408-8417.	2.2	60
49	Modeling Poly(N-isopropylacrylamide) Hydrogels in Water/Alcohol Mixtures with PC-SAFT. Macromolecules, 2012, 45, 6686-6696.	2.2	58
50	Amorphous-Amorphous Phase Separation in API/Polymer Formulations. Molecules, 2017, 22, 296.	1.7	58
51	Modeling thermodynamic properties of aqueous singleâ€solute and multiâ€solute sugar solutions with PCâ€SAFT. AICHE Journal, 2013, 59, 4794-4805.	1.8	57
52	Influence of Salts on the Partitioning of 5-Hydroxymethylfurfural in Water/MIBK. Journal of Physical Chemistry B, 2016, 120, 3797-3808.	1.2	57
53	Characterization and Modeling of the Liquid Phase of Deep Eutectic Solvents Based on Fatty Acids/Alcohols and Choline Chloride. Industrial & Engineering Chemistry Research, 2017, 56, 12192-12202.	1.8	57
54	Phase equilibria in polydisperse and associating copolymer solutions: Poly(ethene-co-(meth)acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	56

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55	Dissolution of Crystalline Pharmaceuticals: Experimental Investigation and Thermodynamic Modeling. Industrial & Engineering Chemistry Research, 2015, 54, 731-742.	1.8	56
56	Physical stability of API/polymer-blend amorphous solid dispersions. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 124, 147-157.	2.0	56
57	Modeling of Aqueous Poly(oxyethylene) Solutions. 2. Mesoscale Simulations. Journal of Physical Chemistry B, 2008, 112, 13561-13571.	1.2	55
58	Finite and infinite dilution activity coefficients in polycarbonate systems. Fluid Phase Equilibria, 1997, 139, 391-403.	1.4	53
59	Modeling aqueous two-phase systems: I. Polyethylene glycol and inorganic salts as ATPS former. Fluid Phase Equilibria, 2014, 368, 91-103.	1.4	48
60	Thermodynamic phase behaviour of indomethacin/PLGA formulations. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 93, 88-94.	2.0	47
61	Moisture-induced phase separation and recrystallization in amorphous solid dispersions. International Journal of Pharmaceutics, 2017, 532, 635-646.	2.6	47
62	Thermophobicity of Liquids: Heats of Transport in Mixtures as Pure Component Properties. Physical Review Letters, 2012, 109, 065901.	2.9	46
63	The Role of Polyfunctionality in the Formation of [Ch]Cl-Carboxylic Acid-Based Deep Eutectic Solvents. Industrial & Engineering Chemistry Research, 2018, 57, 11195-11209.	1.8	46
64	Modeling pH and Solubilities in Aqueous Multisolute Amino Acid Solutions. Industrial & Engineering Chemistry Research, 2011, 50, 3503-3509.	1.8	45
65	Development of a group contribution method for polymers within the PC-SAFT model. Fluid Phase Equilibria, 2012, 324, 70-79.	1.4	45
66	Supercritical antisolvent fractionation: measurements in the systems monodisperse and bidisperse polystyrenecyclohexanecarbon dioxide. Fluid Phase Equilibria, 1997, 139, 349-359.	1.4	43
67	Interfacial tension of binary mixtures exhibiting azeotropic behavior: Measurement and modeling with PCP-SAFT combined with Density Gradient Theory. Fluid Phase Equilibria, 2014, 362, 151-162.	1.4	43
68	Oil desulfurization using deep eutectic solvents as sustainable and economical extractants via liquid-liquid extraction: Experimental and PC-SAFT predictions. Fluid Phase Equilibria, 2018, 467, 33-44.	1.4	43
69	Thermodynamics of Bioreactions. Annual Review of Chemical and Biomolecular Engineering, 2016, 7, 395-414.	3.3	42
70	Compatible solutes: Thermodynamic properties relevant for effective protection against osmotic stress. Fluid Phase Equilibria, 2016, 407, 224-235.	1.4	42
71	Modeling of solidâ€“liquid equilibria for systems with solid-complex phase formation. Fluid Phase Equilibria, 2007, 260, 98-104.	1.4	41
72	Molecular Interactions in 1-Butanol + IL Solutions by Measuring and Modeling Activity Coefficients. Journal of Physical Chemistry B, 2013, 117, 3173-3185.	1.2	41

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73	Salt influence on MIBK/water liquidâ€“liquid equilibrium: Measuring and modeling with ePC-SAFT and COSMO-RS. Fluid Phase Equilibria, 2016, 416, 83-93.	1.4	41
74	Predicting the Aqueous Solubility of Pharmaceutical Cocrystals As a Function of pH and Temperature. Crystal Growth and Design, 2016, 16, 2726-2740.	1.4	40
75	Design of hybrid distillation/melt crystallisation processes for separation of close boiling mixtures. Chemical Engineering and Processing: Process Intensification, 2013, 67, 16-24.	1.8	39
76	Influence of electrolytes on liquid-liquid equilibria of water/1-butanol and on the partitioning of 5-hydroxymethylfurfural in water/1-butanol. Fluid Phase Equilibria, 2016, 428, 102-111.	1.4	39
77	Toward Thermodynamic Predictions of Aqueous Vitamin Solubility: An Activity Coefficient-Based Approach. Industrial & Engineering Chemistry Research, 2019, 58, 7362-7369.	1.8	39
78	Environmental Memory of Polymer Networks under Stress. Advanced Materials, 2014, 26, 3441-3444.	11.1	37
79	Co-solvent effects on reaction rate and reaction equilibrium of an enzymatic peptide hydrolysis. Physical Chemistry Chemical Physics, 2018, 20, 11317-11326.	1.3	37
80	Density of Mixtures Containing Sugars and Ionic Liquids: Experimental Data and PC-SAFT Modeling. Journal of Chemical & Engineering Data, 2014, 59, 2942-2954.	1.0	36
81	Thermodynamic Modeling for Efficient Cocrystal Formation. Crystal Growth and Design, 2015, 15, 4406-4416.	1.4	36
82	Phase-equilibrium measurement and modeling of the PMMA/MMA/carbon dioxide ternary system. Journal of Supercritical Fluids, 2008, 46, 218-225.	1.6	35
83	Investigating phase separation in amorphous solid dispersions via Raman mapping. International Journal of Pharmaceutics, 2018, 535, 245-252.	2.6	35
84	Modelling of high-pressure phase equilibria using the Sakoâ€“Wuâ€“Prausnitz equation of state. Fluid Phase Equilibria, 1999, 163, 79-98.	1.4	34
85	Thermodynamic properties of aqueous salt containing urea solutions. Fluid Phase Equilibria, 2012, 325, 71-79.	1.4	34
86	Modelling of organic-solvent flux through a polyimide membrane. Journal of Membrane Science, 2013, 428, 554-561.	4.1	33
87	Modeling the CO₂ Solubility in Aqueous Electrolyte Solutions Using ePC-SAFT. Journal of Chemical & Engineering Data, 2020, 65, 5768-5777.	1.0	33
88	Modeling the Phase Behavior of PEOâ^'PPOâ^'PEO Surfactants in Carbon Dioxide Using the PC-SAFT Equation of State: Application to Dry Decontamination of Solid Substrates. Journal of Chemical & Engineering Data, 2009, 54, 1551-1559.	1.0	32
89	Thermodynamics of the alanine aminotransferase reaction. Fluid Phase Equilibria, 2016, 422, 87-98.	1.4	32
90	Standard Gibbs energy of metabolic reactions: II. Glucose-6-phosphatase reaction and ATP hydrolysis. Biophysical Chemistry, 2017, 223, 30-38.	1.5	32

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91	Solvent influence on the phase behavior and glass transition of Amorphous Solid Dispersions. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 158, 132-142.	2.0	32
92	Melt crystallization of isomeric long-chain aldehydes from hydroformylation. Separation and Purification Technology, 2013, 118, 13-24.	3.9	31
93	High-pressure gas solubility in multicomponent solvent systems for hydroformylation. Part I: Carbon monoxide solubility. Journal of Supercritical Fluids, 2013, 81, 23-32.	1.6	31
94	Predicting the Solubility of Pharmaceutical Cocrystals in Solvent/Anti-Solvent Mixtures. Molecules, 2016, 21, 593.	1.7	31
95	Modeling binary mixtures of n-alkanes and water using PC-SAFT. Fluid Phase Equilibria, 2018, 470, 203-211.	1.4	31
96	A Novel Approach for Analyzing the Dissolution Mechanism of Solid Dispersions. Pharmaceutical Research, 2015, 32, 2559-78.	1.7	30
97	Polymorphs, Hydrates, Cocrystals, and Cocrystal Hydrates: Thermodynamic Modeling of Theophylline Systems. Crystal Growth and Design, 2016, 16, 4439-4449.	1.4	30
98	The role of activity coefficients in bioreaction equilibria: Thermodynamics of methyl ferulate hydrolysis. Biophysical Chemistry, 2013, 173-174, 21-30.	1.5	29
99	A thermodynamic investigation of the glucose-6-phosphate isomerization. Biophysical Chemistry, 2014, 195, 22-31.	1.5	29
100	Solvent effects on esterification equilibria. AICHE Journal, 2015, 61, 3000-3011.	1.8	29
101	Solubility and Caloric Properties of Cinnarizine. Journal of Chemical & Engineering Data, 2015, 60, 2256-2261.	1.0	29
102	Phase equilibria and diffusion coefficients in the poly(dimethylsiloxane)+n-pentane system. Fluid Phase Equilibria, 2006, 241, 138-146.	1.4	28
103	Thermodynamics of enzyme-catalyzed esterifications: II. Levulinic acid esterification with short-chain alcohols. Applied Microbiology and Biotechnology, 2017, 101, 7509-7521.	1.7	27
104	High-Pressure Phase Behavior of the System PCHCâ^'CHOâ^'CO2 for the Development of a Solvent-Free Alternative toward Polycarbonate Production. Industrial & Engineering Chemistry Research, 2005, 44, 3363-3366.	1.8	26
105	Solubility calculation of pharmaceutical compounds â€“ A priori parameter estimation using quantum-chemistry. Fluid Phase Equilibria, 2010, 299, 161-170.	1.4	26
106	Modeling Liquidâ€“Liquid Equilibria of Polyimide Solutions. Industrial & Engineering Chemistry Research, 2012, 51, 539-546.	1.8	26
107	Modeling aqueous two-phase systems: III. Polymers and organic salts as ATPS former. Fluid Phase Equilibria, 2015, 387, 178-189.	1.4	26
108	Modeling of Solid/Fluid Phase Equilibria in Multicomponent Systems at High Pressure. Chemical Engineering and Technology, 2001, 24, 607-612.	0.9	25

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109	Osmotic Coefficients of Aqueous Weak Electrolyte Solutions: Influence of Dissociation on Data Reduction and Modeling. Journal of Physical Chemistry B, 2012, 116, 7479-7491.	1.2	25
110	PC-SAFT parameters from ab initio calculations. Fluid Phase Equilibria, 2014, 362, 41-50.	1.4	25
111	Using complex layer melt crystallization models for the optimization of hybrid distillation/melt crystallization processes. Chemical Engineering and Processing: Process Intensification, 2014, 85, 10-23.	1.8	25
112	Correctly Measuring and Predicting Solubilities of Solvates, Hydrates, and Polymorphs. Crystal Growth and Design, 2020, 20, 723-735.	1.4	25
113	Efficient phase separation and product recovery in organicâ€aqueous bioprocessing using supercritical carbon dioxide. Biotechnology and Bioengineering, 2010, 107, 642-651.	1.7	24
114	Solubility, crystallization and oiling-out behavior of PEGDME: 1. Pure-solvent systems. Fluid Phase Equilibria, 2010, 298, 253-261.	1.4	24
115	Activity Coefficients of Complex Molecules by Molecular Simulation and Gibbs-Duhem Integration. Soft Materials, 2012, 10, 26-41.	0.8	24
116	Modeling aqueous two-phase systems: II. Inorganic salts and polyether homo- and copolymers as ATPS former. Fluid Phase Equilibria, 2014, 375, 306-315.	1.4	24
117	Mutual Impact of Phase Separation/Crystallization and Water Sorption in Amorphous Solid Dispersions. Molecular Pharmaceutics, 2018, 15, 669-678.	2.3	24
118	Selecting Excipients Forming Therapeutic Deep Eutectic Systemsâ€”A Mechanistic Approach. Molecular Pharmaceutics, 2019, 16, 3091-3099.	2.3	24
119	Effect of Finite Extensibility on the Equilibrium Chain Size. Macromolecular Theory and Simulations, 2010, 19, 414-420.	0.6	23
120	Modeling Growth Rates in Static Layer Melt Crystallization. Crystal Growth and Design, 2013, 13, 5229-5240.	1.4	23
121	Calculation of complex phase equilibria of DMF/alkane systems using the PCP-SAFT equation of state. Chemical Engineering Science, 2014, 115, 49-57.	1.9	23
122	High-pressure gas solubility in multicomponent solvent systems for hydroformylation. Part II: Syngas solubility. Journal of Supercritical Fluids, 2014, 88, 74-84.	1.6	23
123	Standard Gibbs Energy of Metabolic Reactions: I. Hexokinase Reaction. Biochemistry, 2016, 55, 5665-5674.	1.2	23
124	Influence of pH Value and Ionic Liquids on the Solubility of <scp>l</scp>-Alanine and <scp>l</scp>-Glutamic Acid in Aqueous Solutions at 30 Â°C. Journal of Chemical & Engineering Data, 2017, 62, 52-61.	1.0	23
125	Influence of Low-Molecular-Weight Excipients on the Phase Behavior of PVPVA64 Amorphous Solid Dispersions. Pharmaceutical Research, 2018, 35, 25.	1.7	23
126	A square-well based equation of state taking into account the connectivity in chain molecules. Fluid Phase Equilibria, 1998, 149, 75-89.	1.4	22

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127	Reducing the amount of PCPâ€“SAFT fitting parameters. 2. Associating components. Fluid Phase Equilibria, 2012, 326, 31-44.	1.4	22
128	Drug Release Kinetics and Mechanism from PLGA Formulations. AICHE Journal, 2016, 62, 4055-4065.	1.8	22
129	Combined co-solvent and pressure effect on kinetics of a peptide hydrolysis: an activity-based approach. Physical Chemistry Chemical Physics, 2019, 21, 22224-22229.	1.3	22
130	Phase behavior of pharmaceutically relevant polymer/solvent mixtures. International Journal of Pharmaceutics, 2020, 577, 119065.	2.6	22
131	The influence of supercritical gases on the phase behavior of polystyreneâ€“cyclohexane and polyethyleneâ€“cyclohexane systems: experimental results and modeling with the SAFT-equation of state. Journal of Supercritical Fluids, 2002, 23, 181-194.	1.6	21
132	Extension of the PC-SAFT based group contribution method for polymers to aromatic, oxygen- and silicon-based polymers. Fluid Phase Equilibria, 2013, 339, 89-104.	1.4	21
133	Thermodynamics of a model biological reaction: A comprehensive combined experimental and theoretical study. Fluid Phase Equilibria, 2016, 422, 99-110.	1.4	21
134	Cloud-point pressure curves of ethylene-based terpolymers in fluid ethene and in etheneâ€“comonomer-mixturesâ€”Experimental study and modeling via PC-SAFT. Journal of Supercritical Fluids, 2007, 41, 461-471.	1.6	20
135	Application of the PC-SAFT equation of state to modeling of solid-liquid equilibria in systems with organic components forming chemical compounds. Russian Journal of Applied Chemistry, 2007, 80, 542-548.	0.1	20
136	Liquidâ€“Liquid Equilibria of Systems with Linear Aldehydes. Experimental Data and Modeling with PCP-SAFT. Industrial & Engineering Chemistry Research, 2012, 51, 14525-14534.	1.8	20
137	Effect of different organic salts on amino acids partition behaviour in PEG-salt ATPS. Fluid Phase Equilibria, 2018, 456, 84-91.	1.4	20
138	Thermodynamic Approach for Co-crystal Screening. Crystal Growth and Design, 2019, 19, 3253-3264.	1.4	20
139	Liquidâ€“Liquid Equilibria for Separation of Alcohols from Esters Using Deep Eutectic Solvents Based on Choline Chloride: Experimental Study and Thermodynamic Modeling. Journal of Chemical & Engineering Data, 2019, 64, 6049-6059.	1.0	20
140	Predicting the high concentration co-solvent influence on the reaction equilibria of the ADH-catalyzed reduction of acetophenone. Journal of Chemical Thermodynamics, 2019, 128, 275-282.	1.0	20
141	Phase Equilibria for the Hydroesterification of 10-Undecenoic Acid Methyl Ester. Journal of Chemical & Engineering Data, 2016, 61, 3317-3325.	1.0	19
142	Prediction and Experimental Validation of Coâ€Solvent Influence on Michaelis Constants: A Thermodynamic Activityâ€Based Approach. Chemistry - A European Journal, 2018, 24, 16418-16425.	1.7	19
143	Solubility of Electrolytes in Organic Solvents: Solvent-Specific Effects and Ion-Specific Effects. Journal of Chemical & Engineering Data, 2022, 67, 2706-2718.	1.0	19
144	Multicomponent flash algorithm for mixtures containing polydisperse polymers. AICHE Journal, 2003, 49, 258-268.	1.8	18

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145	Choosing Appropriate Solvents for ASD Preparation. Molecular Pharmaceutics, 2018, 15, 5397-5409.	2.3	18
146	Thermodynamic Modeling of Complex Systems. Structure and Bonding, 2009, , 75-108.	1.0	18
147	Modeling of the separation of polydisperse polymer systems by compressed gases. Fluid Phase Equilibria, 1999, 158-160, 869-877.	1.4	17
148	Modeling vaporâ€“liquid equilibria of ethanol+1,1,1,2,3,3,3-heptafluoropropane binary mixtures using PC-SAFT. Fluid Phase Equilibria, 2007, 260, 190-194.	1.4	17
149	Partition Coefficients of Pharmaceuticals as Functions of Temperature and pH. Industrial & Engineering Chemistry Research, 2015, 54, 3968-3975.	1.8	17
150	Predicting the Solubility of CO₂ in Toluene + Ionic Liquid Mixtures with PC-SAFT. Industrial & Engineering Chemistry Research, 2017, 56, 9885-9894.	1.8	17
151	Measurement and PC-SAFT Modeling of the Solubility of Gallic Acid in Aqueous Mixtures of Deep Eutectic Solvents. Journal of Chemical & Engineering Data, 2021, 66, 958-967.	1.0	17
152	Boosting the kinetic efficiency of formate dehydrogenase by combining the effects of temperature, high pressure and co-solvent mixtures. Colloids and Surfaces B: Biointerfaces, 2021, 208, 112127.	2.5	17
153	Influence of Temperature and Concentration on the Self-Assembly of Nonionic C_iE_j Surfactants: A Light Scattering Study. ACS Omega, 2022, 7, 7057-7065.	1.6	17
154	Reducing the amount of PCP-SAFT fitting parameters. 1. Non-polar and dipolar components. Fluid Phase Equilibria, 2012, 326, 21-30.	1.4	16
155	Thermodynamics of enzyme-catalyzed esterifications: I. Succinic acid esterification with ethanol. Applied Microbiology and Biotechnology, 2017, 101, 5973-5984.	1.7	16
156	Reaction Equilibrium of the Ï‰-Transamination of (S)-Phenylethylamine: Experiments and ePC-SAFT Modeling. Organic Process Research and Development, 2017, 21, 976-986.	1.3	16
157	Standard Gibbs Energy of Metabolic Reactions: III The 3-Phosphoglycerate Kinase Reaction. ACS Omega, 2018, 3, 1783-1790.	1.6	16
158	Solubility of Pharmaceutical Ingredients in Natural Edible Oils. Molecular Pharmaceutics, 2020, 17, 2499-2507.	2.3	16
159	Thermodynamic Modeling of Solvent-Impact on Phase Separation in Amorphous Solid Dispersions during Drying. Molecular Pharmaceutics, 2020, 17, 2721-2733.	2.3	16
160	Generalized Diffusionâ€“Relaxation Model for Solvent Sorption in Polymers. Industrial & Engineering Chemistry Research, 2021, 60, 15766-15781.	1.8	16
161	Measurement and Modeling of Phase Equilibria in Systems of Acetonitrile, n-Alkanes, and Î²-Myrcene. Industrial & Engineering Chemistry Research, 2015, 54, 1153-1160.	1.8	15
162	The dynamic influence of cells on the formation of stable emulsions in organicâ€“aqueous biotransformations. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 1011-1026.	1.4	15

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163	Recovery of cis,cis-muconic acid from organic phase after reactive extraction. Separation and Purification Technology, 2016, 169, 1-8.	3.9	15
164	Measuring and Predicting Thermodynamic Limitation of an Alcohol Dehydrogenase Reaction. Industrial & Engineering Chemistry Research, 2017, 56, 5535-5546.	1.8	15
165	Predicting the Solvent Effect on Esterification Kinetics. ChemPhysChem, 2017, 18, 1977-1980.	1.0	15
166	In-situ determination of crystallization kinetics in ASDs via water sorption experiments. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 127, 183-193.	2.0	15
167	Thermodynamic Modeling of Triglycerides using PC-SAFT. Journal of Chemical & Engineering Data, 2019, 64, 1446-1453.	1.0	15
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