

Gabriele Sadowski

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307
papers

10,867
citations

49
h-index

95
g-index

327
ext. papers

12,227
ext. citations

3.8
avg, IF

6.81
L-index

#	Paper	IF	Citations
307	Perturbed-Chain SAFT: An Equation of State Based on a Perturbation Theory for Chain Molecules. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 1244-1260	3.9	2283
306	Application of the Perturbed-Chain SAFT Equation of State to Associating Systems. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 5510-5515	3.9	794
305	Modeling Polymer Systems Using the Perturbed-Chain Statistical Associating Fluid Theory Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 1084-1093	3.9	309
304	Application of perturbation theory to a hard-chain reference fluid: an equation of state for square-well chains. <i>Fluid Phase Equilibria</i> , 2000 , 168, 183-199	2.5	251
303	Modeling of Aqueous Electrolyte Solutions with Perturbed-Chain Statistical Associated Fluid Theory. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 3355-3362	3.9	213
302	Modeling Copolymer Systems Using the Perturbed-Chain SAFT Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 1266-1274	3.9	170
301	Solubility of Amino Acids: Influence of the pH value and the Addition of Alcoholic Cosolvents on Aqueous Solubility. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 6578-6584	3.9	160
300	Modeling aqueous electrolyte solutions. <i>Fluid Phase Equilibria</i> , 2008 , 270, 87-96	2.5	145
299	Modeling the solubility of pharmaceuticals in pure solvents and solvent mixtures for drug process design. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 4205-15	3.9	143
298	Application of the Perturbed-Chain SAFT equation of state to polar systems. <i>Fluid Phase Equilibria</i> , 2004 , 217, 233-239	2.5	129
297	Modeling of Polar Systems Using PCP-SAFT: An Approach to Account for Induced-Association Interactions. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 15544-15553	3.8	121
296	Design of Contact-Active Antimicrobial Acrylate-Based Materials Using Biocidal Macromers. <i>Advanced Materials</i> , 2008 , 20, 104-108	2.4	112
295	ePC-SAFT revised. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 2884-2897	5.5	111
294	Measuring and Modeling Activity Coefficients in Aqueous Amino-Acid Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 131-141	3.9	109
293	Modeling imidazolium-based ionic liquids with ePC-SAFT. <i>Fluid Phase Equilibria</i> , 2012 , 335, 64-73	2.5	104
292	Thermodynamic phase behavior of API/polymer solid dispersions. <i>Molecular Pharmaceutics</i> , 2014 , 11, 2294-304	5.6	102
291	Hydroformylation of 1-Dodecene in the Thermomorphic Solvent System Dimethylformamide/Decane. Phase Behavior, Reaction Performance, Catalyst Recycling. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 10296-10306	3.9	102

290	Thermodynamic modeling of complex systems using PC-SAFT. <i>Fluid Phase Equilibria</i> , 2005 , 228-229, 89-98.5	98.5	99
289	Modeling of polymer phase equilibria using Perturbed-Chain SAFT. <i>Fluid Phase Equilibria</i> , 2002 , 194-197, 541-551	2.5	97
288	Modeling of aqueous amino acid and polypeptide solutions with PC-SAFT. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008 , 47, 1018-1025	3.7	91
287	Modeling of Polar Systems with the Perturbed-Chain SAFT Equation of State. Investigation of the Performance of Two Polar Terms. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 6928-6938	3.9	89
286	Measurement and modelling of high-pressure phase equilibria in the systems polyethyleneglycol (PEG)-propane, PEG-nitrogen and PEG-carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2000 , 17, 1-12	4.2	79
285	PC-SAFT Modeling of CO ₂ Solubilities in Deep Eutectic Solvents. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 2300-10	3.4	78
284	Liquid-Liquid Equilibria of 1-Butanol/Water/IL Systems. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 18472-18481	3.9	77
283	Modeling aqueous electrolyte solutions. Part 2. Weak electrolytes. <i>Fluid Phase Equilibria</i> , 2009 , 279, 141-148	3.48	77
282	Solvent-sensitive reversible stress-response of shape memory natural rubber. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3504-7	9.5	76
281	Modeling of aqueous poly(oxyethylene) solutions: 1. Atomistic simulations. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 2388-98	3.4	75
280	Compatible solutes: Thermodynamic properties and biological impact of ectoines and prolines. <i>Biophysical Chemistry</i> , 2010 , 152, 28-39	3.5	73
279	Measuring and modeling aqueous electrolyte/amino-acid solutions with ePC-SAFT. <i>Journal of Chemical Thermodynamics</i> , 2014 , 68, 1-12	2.9	72
278	Long-Term Physical Stability of PVP- and PVPVA-Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2017 , 14, 157-171	5.6	71
277	Vapor-Liquid Equilibria of Water + Alkylimidazolium-Based Ionic Liquids: Measurements and Perturbed-Chain Statistical Associating Fluid Theory Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 3737-3748	3.9	69
276	Separations and Material Processing in Solutions with Dense Gases. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 3208-3220	3.9	69
275	Measurement and PC-SAFT modeling of solid-liquid equilibrium of deep eutectic solvents of quaternary ammonium chlorides and carboxylic acids. <i>Fluid Phase Equilibria</i> , 2017 , 448, 69-80	2.5	66
274	Crowders and Cosolvents-Major Contributors to the Cellular Milieu and Efficient Means to Counteract Environmental Stresses. <i>ChemPhysChem</i> , 2017 , 18, 2951-2972	3.2	65
273	Influence of copolymer composition on the phase behavior of solid dispersions. <i>Molecular Pharmaceutics</i> , 2014 , 11, 4189-98	5.6	62

272	Solubility of sugars and sugar alcohols in ionic liquids: measurement and PC-SAFT modeling. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 9980-95	3.4	59
271	Measuring and modeling alcohol/salt systems. <i>Chemical Engineering Science</i> , 2012 , 68, 328-339	4.4	58
270	Impact of Polymer Type and Relative Humidity on the Long-Term Physical Stability of Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2017 , 14, 4374-4386	5.6	57
269	Solubility of Pharmaceuticals and Their Salts As a Function of pH. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 2721-2731	3.9	57
268	Experimental investigation and prediction of oiling out during crystallization process. <i>Journal of Crystal Growth</i> , 2008 , 310, 4163-4168	1.6	57
267	Measurement and Modeling Solubility of Aqueous Multisolute Amino-Acid Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 1395-1401	3.9	56
266	Cloud-point curves of ethylene(meth)acrylate copolymers in fluid ethene up to high pressures and temperatures—Experimental study and PC-SAFT modeling. <i>Fluid Phase Equilibria</i> , 2004 , 215, 263-282	2.5	55
265	Modeling imidazolium-based ionic liquids with ePC-SAFT. Part II. Application to H ₂ S and synthesis-gas components. <i>Fluid Phase Equilibria</i> , 2014 , 363, 59-65	2.5	54
264	Modeling of aqueous poly(oxyethylene) solutions. 2. Mesoscale simulations. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 13561-71	3.4	51
263	Fickian and Non-Fickian Sorption Kinetics of Toluene in Glassy Polystyrene. <i>Macromolecules</i> , 2005 , 38, 8408-8417	5.5	51
262	PC-SAFT modeling of CO ₂ solubilities in hydrophobic deep eutectic solvents. <i>Fluid Phase Equilibria</i> , 2017 , 448, 94-98	2.5	50
261	Influence of humidity on the phase behavior of API/polymer formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 94, 352-62	5.7	50
260	Modeling thermodynamic properties of aqueous single-solute and multi-solute sugar solutions with PC-SAFT. <i>AIChE Journal</i> , 2013 , 59, 4794-4805	3.6	49
259	Modeling Poly(N-isopropylacrylamide) Hydrogels in Water/Alcohol Mixtures with PC-SAFT. <i>Macromolecules</i> , 2012 , 45, 6686-6696	5.5	49
258	Predicting the Solubility Advantage of Amorphous Pharmaceuticals: A Novel Thermodynamic Approach. <i>Molecular Pharmaceutics</i> , 2015 , 12, 2823-33	5.6	48
257	Phase equilibria in polydisperse and associating copolymer solutions: Poly(ethene-co-(meth)acrylic acid) monomer mixtures. <i>Fluid Phase Equilibria</i> , 2006 , 241, 113-123	2.5	48
256	Determination of the Total Vapor Pressure of Hydrophobic Deep Eutectic Solvents: Experiments and Perturbed-Chain Statistical Associating Fluid Theory Modeling. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4047-4057	8.3	47
255	Finite and infinite dilution activity coefficients in polycarbonate systems. <i>Fluid Phase Equilibria</i> , 1997 , 139, 391-403	2.5	46

254	Amorphous-Amorphous Phase Separation in API/Polymer Formulations. <i>Molecules</i> , 2017 , 22,	4.8	45
253	Dissolution of Crystalline Pharmaceuticals: Experimental Investigation and Thermodynamic Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 731-742	3.9	44
252	Modeling aqueous two-phase systems: I. Polyethylene glycol and inorganic salts as ATPS former. <i>Fluid Phase Equilibria</i> , 2014 , 368, 91-103	2.5	41
251	Modeling pH and Solubilities in Aqueous Multisolute Amino Acid Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 3503-3509	3.9	41
250	Supercritical antisolvent fractionation: measurements in the systems monodisperse and bidisperse polystyrenecyclohexanecarbon dioxide. <i>Fluid Phase Equilibria</i> , 1997 , 139, 349-359	2.5	41
249	Influence of Salts on the Partitioning of 5-Hydroxymethylfurfural in Water/MIBK. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 3797-808	3.4	41
248	Characterization and Modeling of the Liquid Phase of Deep Eutectic Solvents Based on Fatty Acids/Alcohols and Choline Chloride. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 12192-12202	3.9	40
247	Physical stability of API/polymer-blend amorphous solid dispersions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018 , 124, 147-157	5.7	39
246	Thermophobicity of liquids: heats of transport in mixtures as pure component properties. <i>Physical Review Letters</i> , 2012 , 109, 065901	7.4	39
245	Interfacial tension of binary mixtures exhibiting azeotropic behavior: Measurement and modeling with PC-SAFT combined with Density Gradient Theory. <i>Fluid Phase Equilibria</i> , 2014 , 362, 151-162	2.5	38
244	Modeling of solid-liquid equilibria for systems with solid-complex phase formation. <i>Fluid Phase Equilibria</i> , 2007 , 260, 98-104	2.5	38
243	Compatible solutes: Thermodynamic properties relevant for effective protection against osmotic stress. <i>Fluid Phase Equilibria</i> , 2016 , 407, 224-235	2.5	37
242	Molecular interactions in 1-butanol + IL solutions by measuring and modeling activity coefficients. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 3173-85	3.4	37
241	Thermodynamics of Bioreactions. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2016 , 7, 395-414	8.1	36
240	Development of a group contribution method for polymers within the PC-SAFT model. <i>Fluid Phase Equilibria</i> , 2012 , 324, 70-79	2.5	35
239	Predicting the Aqueous Solubility of Pharmaceutical Cocrystals As a Function of pH and Temperature. <i>Crystal Growth and Design</i> , 2016 , 16, 2726-2740	3.5	35
238	Thermodynamic phase behaviour of indomethacin/PLGA formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 93, 88-94	5.7	34
237	Salt influence on MIBK/water liquid-liquid equilibrium: Measuring and modeling with ePC-SAFT and COSMO-RS. <i>Fluid Phase Equilibria</i> , 2016 , 416, 83-93	2.5	34

236	The Role of Polyfunctionality in the Formation of [Ch]Cl-Carboxylic Acid-Based Deep Eutectic Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 11195-11209	3.9	34
235	Environmental memory of polymer networks under stress. <i>Advanced Materials</i> , 2014 , 26, 3441-4	24	33
234	Density of Mixtures Containing Sugars and Ionic Liquids: Experimental Data and PC-SAFT Modeling. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 2942-2954	2.8	33
233	Thermodynamic properties of aqueous salt containing urea solutions. <i>Fluid Phase Equilibria</i> , 2012 , 325, 71-79	2.5	32
232	Toward Thermodynamic Predictions of Aqueous Vitamin Solubility: An Activity Coefficient-Based Approach. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 7362-7369	3.9	31
231	Thermodynamic Modeling for Efficient Cocrystal Formation. <i>Crystal Growth and Design</i> , 2015 , 15, 4406-4416	4.3	31
230	Co-solvent effects on reaction rate and reaction equilibrium of an enzymatic peptide hydrolysis. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11317-11326	3.6	31
229	Oil desulfurization using deep eutectic solvents as sustainable and economical extractants via liquid-liquid extraction: Experimental and PC-SAFT predictions. <i>Fluid Phase Equilibria</i> , 2018 , 467, 33-44	2.5	31
228	Moisture-induced phase separation and recrystallization in amorphous solid dispersions. <i>International Journal of Pharmaceutics</i> , 2017 , 532, 635-646	6.5	30
227	Modelling of high-pressure phase equilibria using the Sako-Wu-Braunsitz equation of state. <i>Fluid Phase Equilibria</i> , 1999 , 163, 79-98	2.5	30
226	Phase-equilibrium measurement and modeling of the PMMA/MMA/carbon dioxide ternary system. <i>Journal of Supercritical Fluids</i> , 2008 , 46, 218-225	4.2	29
225	Thermodynamics of the alanine aminotransferase reaction. <i>Fluid Phase Equilibria</i> , 2016 , 422, 87-98	2.5	29
224	A thermodynamic investigation of the glucose-6-phosphate isomerization. <i>Biophysical Chemistry</i> , 2014 , 195, 22-31	3.5	28
223	Influence of electrolytes on liquid-liquid equilibria of water/1-butanol and on the partitioning of 5-hydroxymethylfurfural in water/1-butanol. <i>Fluid Phase Equilibria</i> , 2016 , 428, 102-111	2.5	28
222	Modelling of organic-solvent flux through a polyimide membrane. <i>Journal of Membrane Science</i> , 2013 , 428, 554-561	9.6	27
221	The role of activity coefficients in bioreaction equilibria: thermodynamics of methyl ferulate hydrolysis. <i>Biophysical Chemistry</i> , 2013 , 173-174, 21-30	3.5	27
220	Design of hybrid distillation/melt crystallisation processes for separation of close boiling mixtures. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013 , 67, 16-24	3.7	27
219	Modeling the Phase Behavior of PEOBPOBEO Surfactants in Carbon Dioxide Using the PC-SAFT Equation of State: Application to Dry Decontamination of Solid Substrates. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 1551-1559	2.8	27

218	Polymorphs, Hydrates, Cocrystals, and Cocrystal Hydrates: Thermodynamic Modeling of Theophylline Systems. <i>Crystal Growth and Design</i> , 2016 , 16, 4439-4449	3.5	26
217	Investigating phase separation in amorphous solid dispersions via Raman mapping. <i>International Journal of Pharmaceutics</i> , 2018 , 535, 245-252	6.5	25
216	Modeling binary mixtures of n-alkanes and water using PC-SAFT. <i>Fluid Phase Equilibria</i> , 2018 , 470, 203-215	2.5	25
215	High-pressure gas solubility in multicomponent solvent systems for hydroformylation. Part I: Carbon monoxide solubility. <i>Journal of Supercritical Fluids</i> , 2013 , 81, 23-32	4.2	24
214	Modeling aqueous two-phase systems: III. Polymers and organic salts as ATPS former. <i>Fluid Phase Equilibria</i> , 2015 , 387, 178-189	2.5	24
213	Modeling Liquid-Liquid Equilibria of Polyimide Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 539-546	3.9	24
212	Solubility calculation of pharmaceutical compounds Δ priori parameter estimation using quantum-chemistry. <i>Fluid Phase Equilibria</i> , 2010 , 299, 161-170	2.5	23
211	Phase equilibria and diffusion coefficients in the poly(dimethylsiloxane)+n-pentane system. <i>Fluid Phase Equilibria</i> , 2006 , 241, 138-146	2.5	23
210	Modeling aqueous two-phase systems: II. Inorganic salts and polyether homo- and copolymers as ATPS former. <i>Fluid Phase Equilibria</i> , 2014 , 375, 306-315	2.5	22
209	Solubility, crystallization and oiling-out behavior of PEGDME: 1. Pure-solvent systems. <i>Fluid Phase Equilibria</i> , 2010 , 298, 253-261	2.5	22
208	A square-well based equation of state taking into account the connectivity in chain molecules. <i>Fluid Phase Equilibria</i> , 1998 , 149, 75-89	2.5	22
207	Modeling of Solid/Fluid Phase Equilibria in Multicomponent Systems at High Pressure. <i>Chemical Engineering and Technology</i> , 2001 , 24, 607-612	2	22
206	A Novel Approach for Analyzing the Dissolution Mechanism of Solid Dispersions. <i>Pharmaceutical Research</i> , 2015 , 32, 2559-78	4.5	21
205	Thermodynamics of a model biological reaction: A comprehensive combined experimental and theoretical study. <i>Fluid Phase Equilibria</i> , 2016 , 422, 99-110	2.5	21
204	Melt crystallization of isomeric long-chain aldehydes from hydroformylation. <i>Separation and Purification Technology</i> , 2013 , 118, 13-24	8.3	21
203	Solvent effects on esterification equilibria. <i>AIChE Journal</i> , 2015 , 61, 3000-3011	3.6	21
202	PC-SAFT parameters from ab initio calculations. <i>Fluid Phase Equilibria</i> , 2014 , 362, 41-50	2.5	21
201	Calculation of complex phase equilibria of DMF/alkane systems using the PCP-SAFT equation of state. <i>Chemical Engineering Science</i> , 2014 , 115, 49-57	4.4	21

200	Efficient phase separation and product recovery in organic-aqueous bioprocessing using supercritical carbon dioxide. <i>Biotechnology and Bioengineering</i> , 2010 , 107, 642-51	4.9	21
199	Influence of pH Value and Ionic Liquids on the Solubility of L-Alanine and L-Glutamic Acid in Aqueous Solutions at 30 °C. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 52-61	2.8	20
198	Thermodynamics of enzyme-catalyzed esterifications: II. Levulinic acid esterification with short-chain alcohols. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 7509-7521	5.7	20
197	Influence of Low-Molecular-Weight Excipients on the Phase Behavior of PVPVA64 Amorphous Solid Dispersions. <i>Pharmaceutical Research</i> , 2018 , 35, 25	4.5	20
196	High-Pressure Phase Behavior of the System PC ₁₀ /CO ₂ for the Development of a Solvent-Free Alternative toward Polycarbonate Production. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 3363-3366	3.9	20
195	Standard Gibbs energy of metabolic reactions: II. Glucose-6-phosphatase reaction and ATP hydrolysis. <i>Biophysical Chemistry</i> , 2017 , 223, 30-38	3.5	19
194	Osmotic coefficients of aqueous weak electrolyte solutions: influence of dissociation on data reduction and modeling. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 7479-91	3.4	19
193	Effect of Finite Extensibility on the Equilibrium Chain Size. <i>Macromolecular Theory and Simulations</i> , 2010 , 19, 414-420	1.5	19
192	The influence of supercritical gases on the phase behavior of polystyrene/cyclohexane and polyethylene/cyclohexane systems: experimental results and modeling with the SAFT-equation of state. <i>Journal of Supercritical Fluids</i> , 2002 , 23, 181-194	4.2	19
191	High-pressure gas solubility in multicomponent solvent systems for hydroformylation. Part II: Syngas solubility. <i>Journal of Supercritical Fluids</i> , 2014 , 88, 74-84	4.2	18
190	Using complex layer melt crystallization models for the optimization of hybrid distillation/melt crystallization processes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014 , 85, 10-23	3.7	18
189	Modeling Growth Rates in Static Layer Melt Crystallization. <i>Crystal Growth and Design</i> , 2013 , 13, 5229-5240	3.9	18
188	Liquid-Liquid Equilibria of Systems with Linear Aldehydes. Experimental Data and Modeling with PCP-SAFT. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 14525-14534	3.9	18
187	Reducing the amount of PCP-SAFT fitting parameters. 2. Associating components. <i>Fluid Phase Equilibria</i> , 2012 , 326, 31-44	2.5	18
186	Activity Coefficients of Complex Molecules by Molecular Simulation and Gibbs-Duhem Integration. <i>Soft Materials</i> , 2012 , 10, 26-41	1.7	18
185	Predicting the Solubility of Pharmaceutical Cocrystals in Solvent/Anti-Solvent Mixtures. <i>Molecules</i> , 2016 , 21,	4.8	18
184	Solubility and Caloric Properties of Cinnarizine. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 2256-2261	2.8	17
183	Mutual Impact of Phase Separation/Crystallization and Water Sorption in Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2018 , 15, 669-678	5.6	17

182	Prediction and Experimental Validation of Co-Solvent Influence on Michaelis Constants: A Thermodynamic Activity-Based Approach. <i>Chemistry - A European Journal</i> , 2018 , 24, 16418-16425	4.8	17
181	Application of the PC-SAFT equation of state to modeling of solid-liquid equilibria in systems with organic components forming chemical compounds. <i>Russian Journal of Applied Chemistry</i> , 2007 , 80, 542-548	4.8	17
180	Standard Gibbs Energy of Metabolic Reactions: I. Hexokinase Reaction. <i>Biochemistry</i> , 2016 , 55, 5665-5674	4.2	17
179	Partition Coefficients of Pharmaceuticals as Functions of Temperature and pH. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 3968-3975	3.9	16
178	Extension of the PC-SAFT based group contribution method for polymers to aromatic, oxygen- and silicon-based polymers. <i>Fluid Phase Equilibria</i> , 2013 , 339, 89-104	2.5	16
177	Predicting the high concentration co-solvent influence on the reaction equilibria of the ADH-catalyzed reduction of acetophenone. <i>Journal of Chemical Thermodynamics</i> , 2019 , 128, 275-282	2.9	16
176	Solvent influence on the phase behavior and glass transition of Amorphous Solid Dispersions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 , 158, 132-142	5.7	16
175	Thermodynamics of enzyme-catalyzed esterifications: I. Succinic acid esterification with ethanol. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 5973-5984	5.7	15
174	Reaction Equilibrium of the Transamination of (S)-Phenylethylamine: Experiments and ePC-SAFT Modeling. <i>Organic Process Research and Development</i> , 2017 , 21, 976-986	3.9	15
173	Cloud-point pressure curves of ethylene-based terpolymers in fluid ethene and in ethene δ monomer-mixtures δ Experimental study and modeling via PC-SAFT. <i>Journal of Supercritical Fluids</i> , 2007 , 41, 461-471	4.2	15
172	Modeling vapor δ liquid equilibria of ethanol+1,1,1,2,3,3,3-heptafluoropropane binary mixtures using PC-SAFT. <i>Fluid Phase Equilibria</i> , 2007 , 260, 190-194	2.5	15
171	Modeling of the separation of polydisperse polymer systems by compressed gases. <i>Fluid Phase Equilibria</i> , 1999 , 158-160, 869-877	2.5	15
170	Thermodynamic Modeling of Complex Systems. <i>Structure and Bonding</i> , 2009 , 75-108	0.9	15
169	Selecting Excipients Forming Therapeutic Deep Eutectic Systems-A Mechanistic Approach. <i>Molecular Pharmaceutics</i> , 2019 , 16, 3091-3099	5.6	14
168	Phase behavior of pharmaceutically relevant polymer/solvent mixtures. <i>International Journal of Pharmaceutics</i> , 2020 , 577, 119065	6.5	14
167	Minimal Experimental Data Set Required for Estimating PC-SAFT Parameters. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 11746-11754	3.9	14
166	Multicomponent flash algorithm for mixtures containing polydisperse polymers. <i>AIChE Journal</i> , 2003 , 49, 258-268	3.6	14
165	Correctly Measuring and Predicting Solubilities of Solvates, Hydrates, and Polymorphs. <i>Crystal Growth and Design</i> , 2020 , 20, 723-735	3.5	14

164	Thermodynamic Approach for Co-crystal Screening. <i>Crystal Growth and Design</i> , 2019 , 19, 3253-3264	3.5	13
163	The dynamic influence of cells on the formation of stable emulsions in organic-aqueous biotransformations. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015 , 42, 1011-26	4.2	13
162	Modeling and prediction of protein solubility using the second osmotic virial coefficient. <i>Fluid Phase Equilibria</i> , 2016 , 422, 32-42	2.5	13
161	Measurement and Modeling of Phase Equilibria in Systems of Acetonitrile, n-Alkanes, and β -Myrcene. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 1153-1160	3.9	13
160	Modelling of high-pressure phase equilibria using the Sakou-Mu-Braunsitz equation of state: I. Pure-components and heavy n-alkane solutions. <i>Fluid Phase Equilibria</i> , 1999 , 163, 61-77	2.5	13
159	Modeling the CO ₂ Solubility in Aqueous Electrolyte Solutions Using ePC-SAFT. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 5768-5777	2.8	13
158	Phase Equilibria for the Hydroesterification of 10-Undecenoic Acid Methyl Ester. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 3317-3325	2.8	13
157	Combined co-solvent and pressure effect on kinetics of a peptide hydrolysis: an activity-based approach. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22224-22229	3.6	13
156	Choosing Appropriate Solvents for ASD Preparation. <i>Molecular Pharmaceutics</i> , 2018 , 15, 5397-5409	5.6	13
155	Thermodynamic Modeling of Solvent-Impact on Phase Separation in Amorphous Solid Dispersions during Drying. <i>Molecular Pharmaceutics</i> , 2020 , 17, 2721-2733	5.6	12
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