

Gabriele Sadowski

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Predicting Solvent Effects on Homogeneity and Kinetics of the Hydroaminomethylation: A Thermodynamic Approach Using PC-SAFT. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 2323-2332	3.9	0
306	Factors Influencing the Crystallization-Onset Time of Metastable ASDs.. <i>Pharmaceutics</i> , 2022 , 14,	6.4	2
305	Measuring and Modeling Water Sorption in Amorphous Indomethacin and Ritonavir.. <i>Molecular Pharmaceutics</i> , 2022 ,	5.6	2
304	Influence of Temperature and Concentration on the Self-Assembly of Nonionic CE Surfactants: A Light Scattering Study.. <i>ACS Omega</i> , 2022 , 7, 7057-7065	3.9	2
303	Influence of Process Temperature and Residence Time on the Manufacturing of Amorphous Solid Dispersions in Hot Melt Extrusion.. <i>Pharmaceutical Development and Technology</i> , 2022 , 1-9	3.4	1
302	Water Sorption in Glassy Polyvinylpyrrolidone-Based Polymers.. <i>Membranes</i> , 2022 , 12,	3.8	2
301	Unraveling the influence of dissolved gases on permeate flux in organic solvent nanofiltration □ experimental analysis. <i>Separation and Purification Technology</i> , 2022 , 121265	8.3	0
300	Theoretical modeling and prediction of biorelevant solubility of poorly soluble pharmaceuticals. <i>Chemical Engineering Journal</i> , 2022 , 444, 136678	14.7	0
299	Predicting the Water Sorption in ASDs. <i>Pharmaceutics</i> , 2022 , 14, 1181	6.4	1
298	Generalized DiffusionRelaxation Model for Solvent Sorption in Polymers. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 15766-15781	3.9	8
297	Impact of deep eutectic solvents and their constituents on the aqueous solubility of phloroglucinol dihydrate. <i>Journal of Molecular Liquids</i> , 2021 , 344, 117932	6	2
296	Solvent Selection in Homogeneous Catalysis□Optimization of Kinetics and Reaction Performance. <i>ACS Catalysis</i> , 2021 , 11, 590-594	13.1	6
295	Stability of Pharmaceutical Co-Crystals at Humid Conditions Can Be Predicted. <i>Pharmaceutics</i> , 2021 , 13,	6.4	5
294	Predicting Vapor□Liquid Equilibria for Sour-Gas Absorption in Aqueous Mixtures of Chemical and Physical Solvents or Ionic Liquids with ePC-SAFT. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 6327-6336	3.9	6
293	Predicting Deliquescence Relative Humidities of Crystals and Crystal Mixtures. <i>Molecules</i> , 2021 , 26,	4.8	2
292	Swelling and Diffusion in Polymerized Ionic Liquids-Based Hydrogels. <i>Polymers</i> , 2021 , 13,	4.5	3
291	Thermodynamic Properties of Biogenic Amines and Their Solutions. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 2822-2831	2.8	3

290	Co-Crystal Screening by Vapor Sorption of Organic Solvents. <i>Crystal Growth and Design</i> , 2021 , 21, 4445-4455	4.5	1
289	Solubility of DNP-amino acids and their partitioning in biodegradable ATPS: Experimental and ePC-SAFT modeling. <i>Fluid Phase Equilibria</i> , 2021 , 527, 112830	2.5	4
288	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
287	Combining crystalline and polymeric excipients in API solid dispersions - Opportunity or risk?. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 , 158, 323-335	5.7	4
286	Measurement and PC-SAFT Modeling of the Solubility of Gallic Acid in Aqueous Mixtures of Deep Eutectic Solvents. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 958-967	2.8	8
285	PC-SAFT Modeling of Phase Equilibria Relevant for Lipid-Based Drug Delivery Systems. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 1280-1289	2.8	2
284	Predicting the API partitioning between lipid-based drug delivery systems and water. <i>International Journal of Pharmaceutics</i> , 2021 , 595, 120266	6.5	0
283	Insights into influence mechanism of polymeric excipients on dissolution of drug formulations: A molecular interaction-based theoretical model analysis and prediction. <i>AIChE Journal</i> , 2021 , 67, e17372	3.6	0
282	Boosting the kinetic efficiency of formate dehydrogenase by combining the effects of temperature, high pressure and co-solvent mixtures. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 208, 112127	6	4
281	Solvent mixtures in pharmaceutical development: Maximizing the API solubility and avoiding phase separation. <i>Fluid Phase Equilibria</i> , 2021 , 548, 113200	2.5	0
280	Predicting process design spaces for spray drying amorphous solid dispersions. <i>International Journal of Pharmaceutics: X</i> , 2021 , 3, 100072	3.2	2
279	Phase behavior of ASDs based on hydroxypropyl cellulose. <i>International Journal of Pharmaceutics: X</i> , 2021 , 3, 100070	3.2	6
278	Methodology Based on the Theory of Information to Describe the Representation Ability of the DMC + Alkane Behavior. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 1036-1054	3.9	2
277	In-Silico Screening of Lipid-Based Drug Delivery Systems. <i>Pharmaceutical Research</i> , 2020 , 37, 249	4.5	2
276	Solubility of Pharmaceutical Ingredients in Natural Edible Oils. <i>Molecular Pharmaceutics</i> , 2020 , 17, 2499-2507	5.0	9
275	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
274	High-Pressure-Mediated Thiourea-Organocatalyzed Asymmetric Michael Addition to (Hetero)aromatic Nitroolefins: Prediction of Reaction Parameters by PCP-SAFT Modelling. <i>ChemPlusChem</i> , 2020 , 85, 1292-1296	2.8	2
273	Hydrate formation in polymer-based pharmaceutical formulations. <i>Fluid Phase Equilibria</i> , 2020 , 521, 112677	6.7	2

272	Influence of cytosolic conditions on the reaction equilibrium and the reaction enthalpy of the enolase reaction accessed by calorimetry and van 't HOFF. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020 , 1864, 129675	4	4
271	Standard Gibbs energy of metabolic reactions: IV. Triosephosphate isomerase reaction. <i>Biophysical Chemistry</i> , 2020 , 258, 106330	3.5	5
270	Standard Gibbs energy of metabolic reactions: V. Enolase reaction. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020 , 1868, 140365	4	7
269	Phase behavior of pharmaceutically relevant polymer/solvent mixtures. <i>International Journal of Pharmaceutics</i> , 2020 , 577, 119065	6.5	14
268	Standard Gibbs energy of metabolic reactions: VI. Glyceraldehyde 3-phosphate dehydrogenase reaction. <i>Fluid Phase Equilibria</i> , 2020 , 517, 112597	2.5	3
267	The influence of polymeric excipients on desupersaturation profiles of active pharmaceutical ingredients. 1: Polyethylene glycol. <i>International Journal of Pharmaceutics</i> , 2020 , 582, 119317	6.5	4
266	The role of molecular interactions on Michaelis constants of α -chymotrypsin catalyzed peptide hydrolyses. <i>Journal of Chemical Thermodynamics</i> , 2020 , 148, 106142	2.9	4
265	Correctly Measuring and Predicting Solubilities of Solvates, Hydrates, and Polymorphs. <i>Crystal Growth and Design</i> , 2020 , 20, 723-735	3.5	14
264	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
263	Application of PC-SAFT and DGT for the Prediction of Self-Assembly. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 5897-5908	2.8	2
262	Partitioning of water-soluble vitamins in biodegradable aqueous two-phase systems: Electrolyte perturbed-chain statistical associating fluid theory predictions and experimental validation. <i>AICHE Journal</i> , 2020 , 66, e16984	3.6	3
261	Viscosity of ASDs at humid conditions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020 , 154, 387-396	5.7	2
260	The interplay of dissolution, solution crystallization and solid-state transformation of amorphous indomethacin in aqueous solution. <i>International Journal of Pharmaceutics: X</i> , 2020 , 2, 100063	3.2	1
259	Modeling of Interfacial Tensions of Long-Chain Molecules and Related Mixtures Using Perturbed Chain-Statistical Associating Fluid Theory and the Density Gradient Theory. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 1005-1018	2.8	5
258	Protein-protein interactions and water activity coefficients can be used to aid a first excipient choice in protein formulations. <i>International Journal of Pharmaceutics</i> , 2019 , 569, 118608	6.5	4
257	Structure and thermodynamics of aqueous urea solutions from ambient to kilobar pressures: From thermodynamic modeling, experiments, and first principles simulations to an accurate force field description. <i>Biophysical Chemistry</i> , 2019 , 254, 106260	3.5	7
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	Cosolvent and pressure effects on enzyme-catalysed hydrolysis reactions. <i>Biophysical Chemistry</i> , 2019 , 252, 106209	3.5	7

254	Thermodynamic Activity-Based Solvent Design for Bioreactions. <i>Trends in Biotechnology</i> , 2019 , 37, 1038-1041	9	
253	Selecting Excipients Forming Therapeutic Deep Eutectic Systems-A Mechanistic Approach. <i>Molecular Pharmaceutics</i> , 2019 , 16, 3091-3099	5.6	14
252	Measurement and Prediction of Excess Properties of Binary Mixtures Methyl Decanoate + an Even-Numbered n-Alkane (C ₆₋₁₆) at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 2816-2825	2.8	2
251	Thermodynamic Approach for Co-crystal Screening. <i>Crystal Growth and Design</i> , 2019 , 19, 3253-3264	3.5	13
250	Heterosegmental Modeling of Long-Chain Molecules and Related Mixtures Using PC-SAFT: 2. Associating Compounds. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 4625-4643	3.9	6
249	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
248	Second osmotic virial coefficients of therapeutic proteins in the presence of excipient-mixtures can be predicted to aid an efficient formulation design. <i>Journal of Molecular Liquids</i> , 2019 , 283, 575-583	6	5
247	Thermodynamic Modeling of Triglycerides using PC-SAFT. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 1446-1453	2.8	10
246	Reply to Comment on Perturbed-Chain SAFT: An Equation of State Based on a Perturbation Theory for Chain Molecules. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5744-5745	3.9	6
245	Thermodynamic Properties of Systems Comprising Esters: Experimental Data and Modeling with PC-SAFT and SAFT- λ Mie. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 6841-6849	3.9	5
244	Simultaneous Prediction of Cosolvent Influence on Reaction Equilibrium and Michaelis Constants of Enzyme-Catalyzed Ketone Reductions. <i>ACS Omega</i> , 2019 , 4, 6264-6272	3.9	5
243	Density variations of TMAO solutions in the kilobar range: Experiments, PC-SAFT predictions, and molecular dynamics simulations. <i>Biophysical Chemistry</i> , 2019 , 253, 106222	3.5	7
242	Thermodynamic properties of aqueous osmolyte solutions at high-pressure conditions. <i>Biophysical Chemistry</i> , 2019 , 253, 106211	3.5	4
241	Highlighting 10 Years of NIST Cooperation and Service to the Thermophysical Properties Data Community. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4191-4192	2.8	2
240	Solubility of pharmaceutical ingredients in triglycerides. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019 , 145, 113-120	5.7	10
239	Solubility Enhancement of Vitamins in Water in the Presence of Covitamins: Measurements and ePC-SAFT Predictions. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 21761-21771	3.9	10
238	Measurement and Modeling of Lactose Solubility in Aqueous Electrolyte Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 20797-20805	3.9	7
237	Thermodynamic Activity-Based Michaelis Constants 2019 ,		2

236	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
235	Liquid-Liquid Equilibria for Separation of Alcohols from Esters Using Deep Eutectic Solvents Based on Choline Chloride: Experimental Study and Thermodynamic Modeling. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 6049-6059	2.8	9
234	Heterosegmental Modeling of Long-Chain Molecules and Related Mixtures using PC-SAFT: 1. Polar Compounds. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2551-2574	3.9	9
233	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
232	In-situ determination of crystallization kinetics in ASDs via water sorption experiments. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018 , 127, 183-193	5.7	10
231	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
230	Mutual Influence of Furfural and Furancarboxylic Acids on Their Solubility in Aqueous Solutions: Experiments and Perturbed-Chain Statistical Associating Fluid Theory (PC-SAFT) Predictions. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 1460-1470	2.8	10
229	Standard Gibbs Energy of Metabolic Reactions: III The 3-Phosphoglycerate Kinase Reaction. <i>ACS Omega</i> , 2018 , 3, 1783-1790	3.9	10
228	Physical stability of API/polymer-blend amorphous solid dispersions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018 , 124, 147-157	5.7	39
227	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
226	Mutual Impact of Phase Separation/Crystallization and Water Sorption in Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2018 , 15, 669-678	5.6	17
225	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
224	Effect of different organic salts on amino acids partition behaviour in PEG-salt ATPS. <i>Fluid Phase Equilibria</i> , 2018 , 456, 84-91	2.5	10
223	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
222	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
221	Thermodynamic prediction of the solvent effect on a transesterification reaction. <i>Chemical Engineering Science</i> , 2018 , 176, 264-269	4.4	8
220	Investigating phase separation in amorphous solid dispersions via Raman mapping. <i>International Journal of Pharmaceutics</i> , 2018 , 535, 245-252	6.5	25
219	Modeling binary mixtures of n-alkanes and water using PC-SAFT. <i>Fluid Phase Equilibria</i> , 2018 , 470, 203-215	4.5	25

218	Aktivitätskoeffizienten und osmotische Virialkoeffizienten zur Auswahl von Additiven für Antikörper-Formulierungen. <i>Chemie-Ingenieur-Technik</i> , 2018 , 90, 1243-1243	0.8	
217	Choosing Appropriate Solvents for ASD Preparation. <i>Molecular Pharmaceutics</i> , 2018 , 15, 5397-5409	5.6	13
216	Phase separation of Pickering-type emulsions Influence of particles on the interfacial properties of oil/water systems. <i>Chemie-Ingenieur-Technik</i> , 2018 , 90, 1321-1322	0.8	
215	Experimentelle und theoretische Untersuchung der Grenzflächeneigenschaften von wässrigen Systemen. <i>Chemie-Ingenieur-Technik</i> , 2018 , 90, 1324-1324	0.8	
214	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
213	Thermodynamics of enzyme-catalyzed esterifications: I. Succinic acid esterification with ethanol. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 5973-5984	5.7	15
212	Predicting solvent effects on the 1-dodecene hydroformylation reaction equilibrium. <i>AIChE Journal</i> , 2017 , 63, 4576-4585	3.6	11
211	Measuring and Predicting Thermodynamic Limitation of an Alcohol Dehydrogenase Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 5535-5546	3.9	11
210	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
209	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
208	Predicting the Solvent Effect on Esterification Kinetics. <i>ChemPhysChem</i> , 2017 , 18, 1977-1980	3.2	9
207	PC-SAFT modeling of CO ₂ solubilities in hydrophobic deep eutectic solvents. <i>Fluid Phase Equilibria</i> , 2017 , 448, 94-98	2.5	50
206	Modeling and analysis of dissolution of paracetamol/Eudragit® formulations. <i>Chemical Engineering Research and Design</i> , 2017 , 121, 22-31	5.5	7
205	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
204	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
203	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
202	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
201	Moisture-induced phase separation and recrystallization in amorphous solid dispersions. <i>International Journal of Pharmaceutics</i> , 2017 , 532, 635-646	6.5	30

200	Predicting the Solubility of CO ₂ in Toluene + Ionic Liquid Mixtures with PC-SAFT. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 9885-9894	3.9	12
199	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
198	Phase Behavior of Binary Mixtures Containing Succinic Acid or Its Esters. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 1983-1993	2.8	9
197	Long-Term Physical Stability of PVP- and PVPVA-Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2017 , 14, 157-171	5.6	71
196	Solubilization of proteins in aqueous two-phase extraction through combinations of phase-formers and displacement agents. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017 , 112, 38-44	5.7	8
195	Amorphous-Amorphous Phase Separation in API/Polymer Formulations. <i>Molecules</i> , 2017 , 22,	4.8	45
194	Compatible solutes: Thermodynamic properties relevant for effective protection against osmotic stress. <i>Fluid Phase Equilibria</i> , 2016 , 407, 224-235	2.5	37
193	Protein partition coefficients can be estimated efficiently by hybrid shortcut calculations. <i>Journal of Biotechnology</i> , 2016 , 233, 151-9	3.7	5
192	Applied catastrophic phase inversion: a continuous non-centrifugal phase separation step in biphasic whole-cell biocatalysis. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016 , 43, 1527-1535	4.2	9
191	Applied Catastrophic Phase Inversion (ACPI) Δ Continuous Noncentrifugal Phase Separation in Biphasic Whole-Cell Biocatalysis. <i>Chemie-Ingenieur-Technik</i> , 2016 , 88, 1331-1332	0.8	
190	Thermodynamics of Bioreactions. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2016 , 7, 395-414	8.14	36
189	Recovery of cis,cis-muconic acid from organic phase after reactive extraction. <i>Separation and Purification Technology</i> , 2016 , 169, 1-8	8.3	8
188	Polymorphs, Hydrates, Cocrystals, and Cocrystal Hydrates: Thermodynamic Modeling of Theophylline Systems. <i>Crystal Growth and Design</i> , 2016 , 16, 4439-4449	3.5	26
187	Predicting the Effect of pH on Stability and Solubility of Polymorphs, Hydrates, and Cocrystals. <i>Crystal Growth and Design</i> , 2016 , 16, 4136-4147	3.5	11
186	VOC Sorption in Stretched Cross-Linked Natural Rubber. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7191-7200	3.9	4
185	Non-monotonic course of protein solubility in aqueous polymer-salt solutions can be modeled using the sol-mxDLVO model. <i>Biotechnology Journal</i> , 2016 , 11, 282-9	5.6	
184	Modeling and prediction of protein solubility using the second osmotic virial coefficient. <i>Fluid Phase Equilibria</i> , 2016 , 422, 32-42	2.5	13
183	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

182	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
181	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
180	Predicting the Solubility of Pharmaceutical Cocrystals in Solvent/Anti-Solvent Mixtures. <i>Molecules</i> , 2016 , 21,	4.8	18
179	Homogeneously catalyzed hydroamination in a Taylor-Couette reactor using a thermomorphic multicomponent solvent system. <i>Chemical Engineering Research and Design</i> , 2016 , 112, 263-273	5.5	11
178	Drug Release Kinetics and Mechanism from PLGA Formulations. <i>AICHE Journal</i> , 2016 , 62, 4055-4065	3.6	12
177	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
176	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
175	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
174	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
173	Thermodynamics of the alanine aminotransferase reaction. <i>Fluid Phase Equilibria</i> , 2016 , 422, 87-98	2.5	29
172	Standard Gibbs Energy of Metabolic Reactions: I. Hexokinase Reaction. <i>Biochemistry</i> , 2016 , 55, 5665-5674	4.2	17
171	Cation Effect on the Water Activity of Ternary (S)-Aminobutanedioic Acid Magnesium Salt Solutions at 298.15 and 310.15 K. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 3190-3199	2.8	8
170	Novel Displacement Agents for Aqueous 2-Phase Extraction Can Be Estimated Based on Hybrid Shortcut Calculations. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 3030-3038	3.9	7
169	Inclusion of mPRISM potential for polymer-induced protein interactions enables modeling of second osmotic virial coefficients in aqueous polymer-salt solutions. <i>Biotechnology Journal</i> , 2016 , 11, 146-54	5.6	7
168	A Novel Approach for Analyzing the Dissolution Mechanism of Solid Dispersions. <i>Pharmaceutical Research</i> , 2015 , 32, 2559-78	4.5	21
167	Thermodynamic Modeling for Efficient Cocrystal Formation. <i>Crystal Growth and Design</i> , 2015 , 15, 4406-4416	4.3	31
166	Predicting the Solubility Advantage of Amorphous Pharmaceuticals: A Novel Thermodynamic Approach. <i>Molecular Pharmaceutics</i> , 2015 , 12, 2823-33	5.6	48
165	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

164	Solubility and Caloric Properties of Cinnarizine. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 2256-2261	2.8	17
163	Solving Phase Equilibrium Problems by Means of Avoidance-Based Multiobjectivization 2015 , 1159-1171		7
162	Phase Equilibria in Systems of Morpholine, Acetonitrile, and n-Alkanes. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 2098-2103	2.8	5
161	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
160	Partition Coefficients of Pharmaceuticals as Functions of Temperature and pH. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 3968-3975	3.9	16
159	Thermodynamic phase behaviour of indomethacin/PLGA Formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 93, 88-94	5.7	34
158	Different recycling concepts in the homogeneously catalysed synthesis of terpenyl amines. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015 , 98, 22-31	3.7	9
157	Solid Dispersion \square Pragmatic Method to Improve the Bioavailability of Poorly Soluble Drugs 2015 , 81-100		0
156	Solvent effects on esterification equilibria. <i>AIChE Journal</i> , 2015 , 61, 3000-3011	3.6	21
155	Process boundaries of irreversible scCO ₂ -assisted phase separation in biphasic whole-cell biocatalysis. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 2316-23	4.9	6
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