Georgios M Kontogeorgis

List of Publications by Year in Descending Order

327 papers	9,212 citations	49 h-index	81 g-index
340 ext. papers	10,412 ext. citations	3.3 avg, IF	6.42 L-index

#	Paper	IF	Citations
327	Machine learning for the prediction of viscosity of ionic liquid□water mixtures. *Journal of Molecular Liquids*, **2022**, 350, 118546	6	0
326	An analysis of the parameters in the Debye-H□kel theory. *Fluid Phase Equilibria*, **2022**, 556, 113398	2.5	1
325	Conclusions from Round Table Discussion during IUT of ESAT 2021 electrolyte thermodynamics challenges - From industrial needs to academic research. *Fluid Phase Equilibria*, **2022**, 556, 113399	2.5	1
324	A Review of Electrolyte Equations of State with Emphasis on Those Based on Cubic and Cubic-Plus-Association (CPA) Models. *International Journal of Thermophysics*, **2022**, 43, 1	2.1	1
323	Importance of the Relative Static Permittivity in electrolyte SAFT-VR Mie Equations of State. *Fluid Phase Equilibria*, **2022**, 551, 113256	2.5	1
322	Computer-aided design and solvent selection for organic paint and coating formulations. *Progress in Organic Coatings*, **2022**, 162, 106568	4.8	0
321	Modelling study on phase equilibria behavior of ionic liquid-based aqueous biphasic systems. *Chemical Engineering Science*, **2022**, 247, 116904	4.4	3
320	Comparison of Models for the Prediction of the Electrical Conductivity of Electrolyte Solutions. *Industrial & Engineering Chemistry Research*, **2022**, 61, 3168-3185	3.9	1
319	REMOVED: Water Structure, Properties and Some Applications □A review. *Chemical Thermodynamics and Thermal Analysis*, **2022**, 6, 100053		4
318	Structural characteristics of low-density environments in liquid water.. *Physical Review E*, **2022**, 105, 034604	2.4	3
317	Rigorous Phase Equilibrium Calculation Methods for Strong Electrolyte Solutions: The Isothermal Flash. *Fluid Phase Equilibria*, **2022**, 558, 113441	2.5	0
316	Modeling of Gas Solubility in Aqueous Electrolyte Solutions with the eSAFT-VR Mie Equation of State. *Industrial & Engineering Chemistry Research*, **2021**, 60, 15327-15342	3.9	3
315	Computer-Aided Design of Formulated Products. *Current Opinion in Colloid and Interface Science*, **2021**, 101536	7.6	1
314	Estimating Hansen solubility parameters of organic pigments by group contribution methods. *Chinese Journal of Chemical Engineering*, **2021**, 31, 186-197	3.2	5
313	Industrial Requirements for Thermodynamic and Transport Properties: 2020. *Industrial & Engineering Chemistry Research*, **2021**, 60, 4987-5013	3.9	30
312	Water□Hydrocarbon Phase Equilibria with SAFT-VR Mie Equation of State. *Industrial & Engineering Chemistry Research*, **2021**, 60, 5278-5299	3.9	3
311	Application of Quantum Chemistry Insights to the Prediction of Phase Equilibria in Associating Systems. *Industrial & Engineering Chemistry Research*, **2021**, 60, 5992-6005	3.9	2

310	Benchmarking of Separation Methods for Bioethanol (. *Industrial & Engineering Chemistry Research*, **2021**, 60, 5924-5944	3.9	3
309	Quantification of Dipolar Contribution and Modeling of Green Polar Fluids with the Polar Cubic-Plus-Association Equation of State. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 7602-7619	8.3	7
308	Ionic liquid-based in situ product removal design exemplified for an acetone-butanol-ethanol fermentation. *Biotechnology Progress*, **2021**, 37, e3183	2.8	2
307	Distinguishing Weak and Strong Hydrogen Bonds in Liquid Water-A Potential of Mean Force-Based Approach. *Journal of Physical Chemistry B*, **2021**, 125, 7187-7198	3.4	8
306	Towards a predictive Cubic Plus Association equation of state. *Fluid Phase Equilibria*, **2021**, 540, 113045	2.5	2
305	Costa Tsonopoulos his legacy and some personal reflections on cubic equations of state and beyond. *Fluid Phase Equilibria*, **2021**, 533, 112895	2.5	0
304	Good Reporting Practice for Thermophysical and Thermochemical Property Measurements (IUPAC Technical Report).. *Pure and Applied Chemistry*, **2021**, 93,	2.1	14
303	Phase envelope calculations of synthetic gas systems with a crossover equation of state. *Journal of Supercritical Fluids*, **2021**, 173, 105222	4.2	0
302	New Association Schemes for Tri-Ethylene Glycol. *Fluid Phase Equilibria*, **2021**, 113254	2.5	1
301	Investigation of the performance of e-CPA for a wide range of properties for aqueous NaCl solutions. *Fluid Phase Equilibria*, **2021**, 548, 113167	2.5	4
300	Separation of NH3/CO2 from melamine tail gas with ionic liquid: Process evaluation and thermodynamic properties modelling. *Separation and Purification Technology*, **2021**, 274, 119007	8.3	7
299	Process Analysis of Shea Butter Solvent Fractionation Using a Generic Systematic Approach. *Industrial & Engineering Chemistry Research*, **2020**, 59, 9152-9164	3.9	6
298	Analysis of Some Electrolyte Models Including Their Ability to Predict the Activity Coefficients of Individual Ions. *Industrial & Engineering Chemistry Research*, **2020**, 59, 11790-11809	3.9	14
297	Developing group contribution models for the estimation of Atmospheric Lifetime and Minimum Ignition Energy. *Chemical Engineering Science*, **2020**, 226, 115866	4.4	2
296	Matching the critical point of associating fluids with the Cubic Plus Association equation of state. *Fluid Phase Equilibria*, **2020**, 526, 112674	2.5	1
295	Equations of state in three centuries. Are we closer to arriving to a single model for all applications?. *Chemical Engineering Science: X*, **2020**, 7, 100060	1.1	5
294	A review of computer-aided design of paints and coatings. *Current Opinion in Chemical Engineering*, **2020**, 27, 107-120	5.4	9
293	A new study of associating inhomogeneous fluids with classical density functional theory. *Molecular Physics*, **2020**, 118, e1725668	1.7	5

292	A group contribution-based prediction method for the electrical conductivity of ionic liquids. *Fluid Phase Equilibria*, **2020**, 509, 112462	2.5	8
291	Ionic-Liquid-Based Bioisoprene Recovery Process Design. *Industrial & Engineering Chemistry Research*, **2020**, 59, 7355-7366	3.9	5
290	Structure optimization of tailored ionic liquids and process simulation for shale gas separation. *AICHE Journal*, **2020**, 66, e16794	3.6	19
289	Modeling systems relevant to the biodiesel production using the CPA equation of state. Part 2. Systems with supercritical CO2. *Fluid Phase Equilibria*, **2020**, 504, 112337	2.5	2
288	A multi-layered view of chemical and biochemical engineering. *Chemical Engineering Research and Design*, **2020**, 155, A133-A145	5.5	43
287	A computational tool for parameter estimation in EoS: New methodologies and natural gas phase equilibria calculations. *Chemical Engineering Science*, **2020**, 215, 115437	4.4	3
286	A model-based solvent selection and design framework for organic coating formulations. *Progress in Organic Coatings*, **2020**, 140, 105471	4.8	5
285	Modeling the Critical and Phase Equilibrium Properties of Pure Fluids and Mixtures with the Crossover Cubic-Plus-Association Equation of State. *Journal of Chemical & Engineering Data*, **2020**, 65, 1095-1107	2.8	4
284	Thermodynamic modeling of gas solubility in aqueous solutions of quaternary ammonium salts with the e-CPA equation of state. *Fluid Phase Equilibria*, **2020**, 507, 112423	2.5	7
283	Predicting activity coefficients with the Debye□Hückel theory using concentration dependent static permittivity. *AICHE Journal*, **2020**, 66, e16651	3.6	9
282	Group Contribution Method to Estimate the Biodegradability of Organic Compounds. *Industrial & Engineering Chemistry Research*, **2020**, 59, 20916-20928	3.9	4
281	Evaluating the Performance of the PC-SAFT and CPA Equations of State on Anomalous Properties of Water. *Journal of Chemical & Engineering Data*, **2020**, 65, 5718-5734	2.8	6
280	Methodology to Predict Thermodynamic Data from Spectroscopic Analysis. *Industrial & Engineering Chemistry Research*, **2020**, 59, 21548-21566	3.9	2
279	On the study of the vapor-liquid interface of associating fluids with classical density functional theory. *Fluid Phase Equilibria*, **2020**, 522, 112744	2.5	3
278	Solubility Modeling of Air in Aqueous Electrolyte Solutions with the e-CPA Equation of State. *Industrial & Engineering Chemistry Research*, **2020**, 59, 18693-18704	3.9	2
277	Heat Capacities of Fluids: The Performance of Various Equations of State. *Journal of Chemical & Engineering Data*, **2020**, 65, 5654-5676	2.8	6
276	Gas Solubility in Ionic Liquids: UNIFAC-IL Model Extension. *Industrial & Engineering Chemistry Research*, **2020**, 59, 16805-16821	3.9	11
275	Comparison of Two Types of Crossover Soave□Redlich□Kwong Equations of State for Derivative Properties of n-Alkanes. *Industrial & Engineering Chemistry Research*, **2020**, 59, 9265-9278	3.9	6

274	High-pressure experimental vapour-liquid-liquid equilibrium measurements and modelling for natural gas processing: Equipment validation, and the system CH4+nC6H14+H2O. *Fluid Phase Equilibria*, **2019**, 501, 112276	2.5	0
273	High-pressure densities of n-decane+o-xylene mixtures: Measurement and modelling. *Fluid Phase Equilibria*, **2019**, 498, 1-8	2.5	1
272	Sustainable solutions by integrating process synthesis-intensification. *Computers and Chemical Engineering*, **2019**, 126, 499-519	4	16
271	Effect of the Composition of Biomass on the Quality of Syngas Produced from Thermochemical Conversion Based on Thermochemical Data Prediction. *Energy & Fuels*, **2019**, 33, 5253-5262	4.1	7
270	Comparison of two crossover procedures for describing thermodynamic behavior of normal alkanes from singular critical to regular classical regions. *Fluid Phase Equilibria*, **2019**, 495, 33-46	2.5	5
269	PTT measurements and modelling of (n-decane + m-xylene) mixtures from 293.15 K to 363.15 K at pressures up to 60 MPa. *Journal of Chemical Thermodynamics*, **2019**, 135, 107-115	2.9	2
268	Gas Adsorption and Interfacial Tension with Classical Density Functional Theory. *Industrial & Engineering Chemistry Research*, **2019**, 58, 5650-5664	3.9	22
267	Systematic Model-Based Methodology for Substitution of Hazardous Chemicals. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 7652-7666	8.3	10
266	Integrated ionic liquid and process design involving azeotropic separation processes. *Chemical Engineering Science*, **2019**, 203, 402-414	4.4	25
265	Taking Another Look at the van der Waals Equation of State—Almost 150 Years Later. *Journal of Chemical & Engineering Data*, **2019**, 64, 4619-4637	2.8	23
264	Modeling of Gas Solubility Using the Electrolyte Cubic Plus Association Equation of State. *Industrial & Engineering Chemistry Research*, **2019**, 58, 17555-17567	3.9	15
263	Computer-aided design of ionic liquids for hybrid process schemes. *Computers and Chemical Engineering*, **2019**, 130, 106556	4	16
262	Group Contribution Based Estimation Method for Properties of Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2019**, 58, 4277-4292	3.9	31
261	An Integrated Approach for the Design of Emulsified Products. *AICHE Journal*, **2019**, 65, 75-86	3.6	12
260	Modeling Tetra-n-butyl ammonium halides aqueous solutions with the electrolyte cubic plus association equation of state. *Fluid Phase Equilibria*, **2019**, 486, 37-47	2.5	10
259	Modeling the phase behaviour of bitumen/n-alkane systems with the cubic plus association (CPA) equation of state. *Fluid Phase Equilibria*, **2019**, 486, 119-138	2.5	8
258	Improvement of the PR-CPA equation of state for modelling of acid gases solubilities in aqueous alkanolamine solutions. *Fluid Phase Equilibria*, **2018**, 471, 74-87	2.5	15
257	Extensive Study of the Capabilities and Limitations of the CPA and sPC-SAFT Equations of State in Modeling a Wide Range of Acetic Acid Properties. *Industrial & Engineering Chemistry Research*, **2018**, 57, 5690-5704	3.9	10

256	Ternary Vapor–Liquid Equilibrium Measurements and Modeling of Ethylene Glycol (1) + Water (2) + Methane (3) Systems at 6 and 12.5 MPa. *Journal of Chemical & Engineering Data*, **2018**, 63, 1789-1796	2.8	8
255	The Debye-Hückel theory and its importance in modeling electrolyte solutions. *Fluid Phase Equilibria*, **2018**, 462, 130-152	2.5	68
254	Systematic identification method for data analysis and phase equilibria modelling for lipids systems. *Journal of Chemical Thermodynamics*, **2018**, 121, 153-169	2.9	9
253	Design and Analysis of Edible Oil Processes Containing Lipids. *Computer Aided Chemical Engineering* , **2018**, 43, 737-742	0.6	1
252	Integrated Solvent-Membrane and Process Design Method for Hybrid Reaction-Separation Schemes. *Computer Aided Chemical Engineering*, **2018**, 43, 851-856	0.6	2
251	Exergy efficiency based design and analysis of utilization pathways of biomasses. *Computer Aided Chemical Engineering*, **2018**, 43, 857-862	0.6	3
250	Multicomponent Vapor–Liquid Equilibrium Measurement and Modeling of Ethylene Glycol, Water, and Natural Gas Mixtures at 6 and 12.5 MPa. *Journal of Chemical & Engineering Data*, **2018**, 63, 3628-3639	2.8	5
249	Application of COSMO-RS and UNIFAC for ionic liquids based gas separation. *Chemical Engineering Science*, **2018**, 192, 816-828	4.4	40
248	New association schemes for mono-ethylene glycol: Cubic-Plus-Association parameterization and uncertainty analysis. *Fluid Phase Equilibria*, **2018**, 458, 211-233	2.5	8
247	eCPA: An ion-specific approach to parametrization. *Fluid Phase Equilibria*, **2018**, 470, 176-187	2.5	15
246	Improvement of predictive tools for vapor-liquid equilibrium based on group contribution methods applied to lipid technology. *Fluid Phase Equilibria*, **2018**, 470, 249-258	2.5	7
245	Application of a Crossover Equation of State to Describe Phase Equilibrium and Critical Properties of n-Alkanes and Methane/n-Alkane Mixtures. *Journal of Chemical & Engineering Data*, **2018**, 63, 981-993	2.8	13
244	Integrated Ionic Liquid and Process Design involving Hybrid Separation Schemes. *Computer Aided Chemical Engineering*, **2018**, 44, 1045-1050	0.6	4
243	Thermodynamic Modeling of Relevance to Natural Gas Processing **2018**, 341-378		
242	Solubility of Syngas Components in Water, Acetic Acid, and Alcohol Using New Standard Fugacity Methodology. *Industrial & Engineering Chemistry Research*, **2018**, 57, 16958-16977	3.9	1
241	Modeling Hydrofluoroolefins with the Cubic Plus Association and Perturbed-Chain Statistical Associating Fluid Theory Equations of State. *Industrial & Engineering Chemistry Research*, **2018**, 57, 17289-17300	3.9	9
240	Recent advances with association models for practical applications. *Molecular Physics*, **2018**, 116, 1921-1944	1.7	6
239	Simultaneous Description of Activity Coefficients and Solubility with eCPA. *Industrial & Engineering Chemistry Research*, **2017**, 56, 1074-1089	3.9	13

238	Evaluation of equations of state for simultaneous representation of phase equilibrium and critical phenomena. *Fluid Phase Equilibria*, **2017**, 437, 140-154	2.5	9
237	Prediction of Gas Injection Effect on Asphaltene Precipitation Onset Using the Cubic and Cubic-Plus-Association Equations of State. *Energy & Fuels*, **2017**, 31, 3313-3328	4.1	14
236	Dimerization of Carboxylic Acids: An Equation of State Approach. *Journal of Physical Chemistry B*, **2017**, 121, 2153-2163	3.4	16
235	Data Requirements and Modeling for Gas Hydrate-Related Mixtures and a Comparison of Two Association Models. *Journal of Chemical & Engineering Data*, **2017**, 62, 2592-2605	2.8	11
234	Methods and Modelling for Post-combustion CO2 Capture **2017**, 43-78		
233	Modeling of Asphaltene Precipitation from Crude Oil with the Cubic Plus Association Equation of State. *Energy & Fuels*, **2017**, 31, 2063-2075	4.1	18
232	Prospects of the use of nanofluids as working fluids for organic Rankine cycle power systems. *Energy Procedia*, **2017**, 129, 160-167	2.3	8
231	Modeling derivative properties and binary mixtures with CO2 using the CPA and the quadrupolar CPA equations of state. *Fluid Phase Equilibria*, **2016**, 408, 151-169	2.5	30
230	Hydrate equilibrium data for the CO2 + N2 system with the use of tetra-n-butylammonium bromide (TBAB), cyclopentane (CP) and their mixture. *Fluid Phase Equilibria*, **2016**, 408, 240-247	2.5	22
229	A collocation method for surface tension calculations with the density gradient theory. *Fluid Phase Equilibria*, **2016**, 408, 170-179	2.5	15
228	A comment on water□ structure using monomer fraction data and theories. *Fluid Phase Equilibria*, **2016**, 407, 2-6	2.5	17
227	Modelling phase equilibria for acid gas mixtures using the CPA equation of state. Part VI. Multicomponent mixtures with glycols relevant to oil and gas and to liquid or supercritical CO2 transport applications. *Journal of Chemical Thermodynamics*, **2016**, 93, 305-319	2.9	11
226	Thermodynamics 2015 Conference Copenhagen, Denmark, 15□18 September 2015. *Molecular Physics*, **2016**, 114, 2569-2573	1.7	2
225	Modeling of Asphaltene Onset Precipitation Conditions with Cubic Plus Association (CPA) and Perturbed Chain Statistical Associating Fluid Theory (PC-SAFT) Equations of State. *Energy & Fuels*, **2016**, 30, 6835-6852	4.1	43
224	Evaluation of the Cubic-Plus-Association Equation of State for Ternary, Quaternary, and Multicomponent Systems in the Presence of Monoethylene Glycol. *Industrial & Engineering Chemistry Research*, **2016**, 55, 11371-11382	3.9	10
223	Modelling the phase equilibria of multicomponent mixtures containing CO2, alkanes, water, and/or alcohols using the quadrupolar CPA equation of state. *Molecular Physics*, **2016**, 114, 2641-2654	1.7	3
222	A density gradient theory based method for surface tension calculations. *Fluid Phase Equilibria*, **2016**, 428, 153-163	2.5	27
221	Modeling of phase equilibrium of North Sea oils with water and MEG. *Fluid Phase Equilibria*, **2016**, 424, 79-89	2.5	1

220	Uncertainty analysis of the CPA and a quadrupolar CPA equation of state With emphasis on CO2. *Fluid Phase Equilibria*, **2016**, 414, 29-47	2.5	9
219	Phase Equilibrium Measurements and Modeling of 1-Propanethiol +1-Butanethiol + CH4 in Methane Ternary System at 303, 336, and 368 K and Pressure Up to 9 MPa. *Journal of Chemical & Engineering Data*, **2016**, 61, 41-44	2.8	1
218	Phase equilibrium of North Sea oils with polar chemicals: Experiments and CPA modeling. *Fluid Phase Equilibria*, **2016**, 424, 122-136	2.5	2
217	Hydrate Equilibrium Data for CO2+N2 System in the Presence of Tetra-n-butylammonium Fluoride (TBAF) and Mixture of TBAF and Cyclopentane (CP). *Journal of Chemical & Engineering Data*, **2016**, 61, 1007-1011	2.8	6
216	Investigation of the Gas Injection Effect on Asphaltene Onset Precipitation Using the Cubic-Plus-Association Equation of State. *Energy & Fuels*, **2016**, 30, 3560-3574	4.1	23
215	Pitfalls of using the geometric-mean combining rule in the density gradient theory. *Fluid Phase Equilibria*, **2016**, 415, 75-83	2.5	24
214	Modeling systems relevant to the biodiesel production using the CPA equation of state. *Fluid Phase Equilibria*, **2016**, 430, 75-92	2.5	17
213	Introduction to Colloid and Surface Chemistry **2016**, 1-10		
212	Colloid Stability Part I **2016**, 211-242		
211	Colloid Stability Part II **2016**, 243-268		
210	Emulsions **2016**, 269-282		
209	Foams **2016**, 283-302		
208	Multicomponent Adsorption **2016**, 303-320		
207	Sixty Years with Theories for Interfacial Tension Quo Vadis? **2016**, 321-351		1
206	Epilogue and Review Problems **2016**, 352-357		
205	Intermolecular and Interparticle Forces **2016**, 11-33		1
204	Surface and Interfacial Tensions Principles and Estimation Methods **2016**, 34-73		
203	Fundamental Equations in Colloid and Surface Science **2016**, 74-95		

202	Surfactants and Self-assembly. Detergents and Cleaning **2016**, 96-120		
201	Wetting and Adhesion **2016**, 121-160		1
200	Adsorption in Colloid and Surface Science A Universal Concept **2016**, 161-184		
199	Characterization Methods of Colloids Part I **2016**, 185-201		
198	Characterization Methods of Colloids Part II **2016**, 202-210		
197	Cubic Plus Association Equation of State for Flow Assurance Projects. *Industrial & Engineering Chemistry Research*, **2015**, 54, 6812-6824	3.9	10
196	Modeling the liquidliquid equilibrium of petroleum fluid and polar compounds containing systems with the PC-SAFT equation of state. *Fluid Phase Equilibria*, **2015**, 406, 147-155	2.5	18
195	Measurement of vaporliquidliquid phase equilibriumEquipment and results. *Fluid Phase Equilibria*, **2015**, 405, 88-95	2.5	6
194	Multicomponent Adsorption Model for Polar and Associating Mixtures. *Industrial & Engineering Chemistry Research*, **2015**, 54, 3039-3050	3.9	7
193	An electrolyte CPA equation of state for mixed solvent electrolytes. *AICHE Journal*, **2015**, 61, 2933-2950	3.6	59
192	Determination of asphaltene onset conditions using the cubic plus association equation of state. *Fluid Phase Equilibria*, **2015**, 400, 8-19	2.5	39
191	Modeling MEA with the CPA equation of state: A parameter estimation study adding local search to PSO algorithm. *Fluid Phase Equilibria*, **2015**, 400, 76-86	2.5	5
190	Modeling phase equilibria for acid gas mixtures using the CPA equation of state. Part IV. Applications to mixtures of CO2 with alkanes. *Fluid Phase Equilibria*, **2015**, 397, 1-17	2.5	17
189	Characterization Scheme for Property Prediction of Fluid Fractions Originating from Biomass. *Energy & Fuels*, **2015**, 29, 7230-7241	4.1	3
188	Modeling Water Saturation Points in Natural Gas Streams Containing CO2 and H2SComparisons with Different Equations of State. *Industrial & Engineering Chemistry Research*, **2015**, 54, 743-757	3.9	4
187	Thermodynamics of Polymer Solutions **2015**, 199-246		
186	Modelling phase equilibria for acid gas mixtures using the CPA equation of state. Part V: Multicomponent mixtures containing CO2 and alcohols. *Journal of Supercritical Fluids*, **2015**, 104, 29-39	4.2	14
185	The role of chemical engineering in medicinal research including Alzheimer's. *Advances in Experimental Medicine and Biology*, **2015**, 821, 57-62	3.6	1

184	New Variant of the Universal Constants in the Perturbed Chain-Statistical Associating Fluid Theory Equation of State. *Industrial & Engineering Chemistry Research*, **2015**, 54, 1373-1384	3.9	18
183	Vapor□liquid Equilibrium of Methane with Water and Methanol. Measurements and Modeling. *Journal of Chemical & Engineering Data*, **2014**, 59, 961-967	2.8	35
182	A comprehensive framework for surfactant selection and design for emulsion based chemical product design. *Fluid Phase Equilibria*, **2014**, 362, 288-299	2.5	60
181	Development and analysis of the Original UNIFAC-CI model for prediction of vapor□quid and solid□quid equilibria. *Fluid Phase Equilibria*, **2014**, 366, 24-44	2.5	6
180	Modeling Water Containing Systems with the Simplified PC-SAFT and CPA Equations of State. *Industrial & Engineering Chemistry Research*, **2014**, 53, 14493-14507	3.9	65
179	Modeling Phase Equilibria for Acid Gas Mixtures using the Cubic-Plus-Association Equation of State. 3. Applications Relevant to Liquid or Supercritical CO2 Transport. *Journal of Chemical & Engineering Data*, **2014**, 59, 2955-2972	2.8	18
178	Improving GC-PPC-SAFT equation of state for LLE of hydrocarbons and oxygenated compounds with water. *Fluid Phase Equilibria*, **2014**, 372, 113-125	2.5	16
177	Process Design of Industrial Triethylene Glycol Processes Using the Cubic-Plus-Association (CPA) Equation of State. *Industrial & Engineering Chemistry Research*, **2014**, 53, 11766-11778	3.9	9
176	Distribution of Gas Hydrate Inhibitor Monoethylene Glycol in Condensate and Water Systems: Experimental Measurement and Thermodynamic Modeling Using the Cubic-Plus-Association Equation of State. *Energy & Fuels*, **2014**, 28, 3530-3538	4.1	9
175	The Virtual Product-Process Design Laboratory for Structured Chemical Product Design and Analysis. *Computer Aided Chemical Engineering*, **2014**, 61-66	0.6	7
174	On the predictive capabilities of CPA for applications in the chemical industry: Multicomponent mixtures containing methyl-methacrylate, dimethyl-ether or acetic acid. *Chemical Engineering Research and Design*, **2014**, 92, 2947-2969	5.5	12
173	On petroleum fluid characterization with the PC-SAFT equation of state. *Fluid Phase Equilibria*, **2014** , 375, 254-268	2.5	35
172	The role of monomer fraction data in association theories□can we improve the performance for phase equilibrium calculations?. *Fluid Phase Equilibria*, **2014**, 365, 112-122	2.5	13
171	Association theories for complex thermodynamics. *Chemical Engineering Research and Design*, **2013**, 91, 1840-1858	5.5	29
170	Modeling of the Critical Micelle Concentration (CMC) of Nonionic Surfactants with an Extended Group-Contribution Method. *Industrial & Engineering Chemistry Research*, **2013**, 52, 12236-12246	3.9	32
169	Modeling of dielectric properties of aqueous salt solutions with an equation of state. *Journal of Physical Chemistry B*, **2013**, 117, 10523-33	3.4	56
168	Prediction of the vapor□quid equilibria and speed of sound in binary systems of 1-alkanols and n-alkanes with the simplified PC-SAFT equation of state. *Fluid Phase Equilibria*, **2013**, 360, 222-232	2.5	36
167	Experimental determination and modeling of the phase behavior for the direct synthesis of dimethyl carbonate from methanol and carbon dioxide. *Journal of Supercritical Fluids*, **2013**, 84, 155-163	4.2	3

166	Capabilities and Limitations of Predictive Engineering Theories for Multicomponent Adsorption. *Industrial & Engineering Chemistry Research*, **2013**, 52, 11552-11563	3.9	30
165	Distribution of MEG and methanol in well-defined hydrocarbon and water systems: Experimental measurement and modeling using the CPA EoS. *Fluid Phase Equilibria*, **2013**, 337, 298-310	2.5	14
164	Fluid phase equilibria during propylene carbonate synthesis from propylene oxide in carbon dioxide medium. *Journal of Supercritical Fluids*, **2013**, 82, 106-115	4.2	7
163	Prediction of Thermophysical Properties of Liquid Formulated Products **2013**, 121-151		1
162	Modeling of dielectric properties of complex fluids with an equation of state. *Journal of Physical Chemistry B*, **2013**, 117, 3389-97	3.4	39
161	Potential Theory of Adsorption for Associating Mixtures: Possibilities and Limitations. *Industrial & Engineering Chemistry Research*, **2013**, 52, 2672-2684	3.9	26
160	Thermodynamic Modeling of Natural Gas Systems Containing Water. *Industrial & Engineering Chemistry Research*, **2013**, 52, 3499-3513	3.9	23
159	GC-PPC-SAFT Equation of State for VLE and LLE of Hydrocarbons and Oxygenated Compounds. Sensitivity Analysis. *Industrial & Engineering Chemistry Research*, **2013**, 52, 7014-7029	3.9	20
158	Liquid−liquid equilibria for reservoir fluids + monoethylene glycol and reservoir fluids + monoethylene glycol + water: Experimental measurements and modeling using the CPA EoS. *Fluid Phase Equilibria*, **2013**, 340, 1-6	2.5	13
157	Vapor−liquid−liquid Equilibrium Measurements and Modeling of Ethanethiol + Methane + Water, 1-Propanethiol + Methane + Water and 1-Butanethiol + Methane + Water Ternary Systems at 303, 335, and 365 K and Pressure Up to 9 MPa. *Industrial & Engineering Chemistry Research*, **2013**, 52, 14698-14705	3.9	5
156	Design of an Emulsion-based Personal Detergent through a Model-based Chemical Product Design Methodology. *Computer Aided Chemical Engineering*, **2013**, 32, 817-822	0.6	5
155	Selective oxidation of benzyl alcohol in dense CO2: Insight by phase behavior modeling. *Journal of Supercritical Fluids*, **2012**, 63, 199-207	4.2	11
154	Thirty Years with EoS/GEModels−What Have We Learned?. *Industrial & Engineering Chemistry Research*, **2012**, 51, 4119-4142	3.9	54
153	Capabilities and Limitations of an Association Theory for Chemicals in Liquid or Supercritical Solvents. *Industrial & Engineering Chemistry Research*, **2012**, 51, 13496-13517	3.9	17
152	Approach to Improve Speed of Sound Calculation within PC-SAFT Framework. *Industrial & Engineering Chemistry Research*, **2012**, 51, 14903-14914	3.9	55
151	Phase Equilibria of Three Binary Mixtures: Methanethiol + Methane, Methanethiol + Nitrogen, and Methanethiol + Carbon Dioxide. *Journal of Chemical & Engineering Data*, **2012**, 57, 896-901	2.8	8
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