Georgios M Kontogeorgis

List of Publications by Year
in descending order

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313 papers	11,715 citations	30070 54 h-index	46799 89 g-index
340 all docs	340 docs citations	340 times ranked	4152 citing authors

#	Article	IF	Citations
1	An Equation of State for Associating Fluids. Industrial & Engineering Chemistry Research, 1996, 35, 4310-4318.	3.7	829
2	Ten Years with the CPA (Cubic-Plus-Association) Equation of State. Part 1. Pure Compounds and Self-Associating Systems. Industrial & Engineering Chemistry Research, 2006, 45, 4855-4868.	3.7	374
3	Multicomponent phase equilibrium calculations for waterâ€“methanolâ€“alkane mixtures. Fluid Phase Equilibria, 1999, 158-160, 201-209.	2.5	306
4	A Floryâ€“Huggins model based on the Hansen solubility parameters. Fluid Phase Equilibria, 2002, 203, 247-260.	2.5	275
5	Computational and Physical Performance of a Modified PC-SAFT Equation of State for Highly Asymmetric and Associating Mixtures. Industrial & Engineering Chemistry Research, 2003, 42, 1098-1105.	3.7	261
6	Ten Years with the CPA (Cubic-Plus-Association) Equation of State. Part 2. Cross-Associating and Multicomponent Systems. Industrial & Engineering Chemistry Research, 2006, 45, 4869-4878.	3.7	217
7	Industrial Requirements for Thermodynamics and Transport Properties. Industrial & Engineering Chemistry Research, 2010, 49, 11131-11141.	3.7	211
8	Modeling phase equilibria for acid gas mixtures using the CPA equation of state. Part II: Binary mixtures with CO2. Fluid Phase Equilibria, 2011, 306, 38-56.	2.5	164
9	A Predictive Group-Contribution Simplified PC-SAFT Equation of State: Application to Polymer Systems. Industrial & Engineering Chemistry Research, 2008, 47, 5092-5101.	3.7	160
10	Simple activity coefficient model for the prediction of solvent activities in polymer solutions. Industrial & Engineering Chemistry Research, 1993, 32, 362-372.	3.7	149
11	Applications of the simplified perturbed-chain SAFT equation of state using an extended parameter table. Fluid Phase Equilibria, 2006, 248, 29-43.	2.5	142
12	Vapor-liquid equilibria for systems using the CPA Equation of state. Fluid Phase Equilibria, 1997, 130, 31-47.	2.5	130
13	The Debye-HÃ¼ckel theory and its importance in modeling electrolyte solutions. Fluid Phase Equilibria, 2018, 462, 130-152.	2.5	130
14	A Model for Estimating CO2 Solubility in Aqueous Alkanolamines. Industrial & Engineering Chemistry Research, 2005, 44, 3348-3354.	3.7	129
15	Modeling phase equilibria for acid gas mixtures using the CPA equation of state. I. Mixtures with H₂S. AICHE Journal, 2010, 56, 2965-2982.	3.6	129
16	Application of the Cubic-Plus-Association (CPA) Equation of State to Cross-Associating Systems. Industrial & Engineering Chemistry Research, 2005, 44, 3823-3833.	3.7	128
17	Prediction of Phase Equilibria in Binary Aqueous Systems Containing Alkanes, Cycloalkanes, and Alkenes with the Cubic-plus-Association Equation of State. Industrial & Engineering Chemistry Research, 1998, 37, 4175-4182.	3.7	113
18	Application of the Cubic-Plus-Association (CPA) Equation of State to Complex Mixtures with Aromatic Hydrocarbons. Industrial & Engineering Chemistry Research, 2006, 45, 1527-1538.	3.7	109

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19	Extension of the Cubic-Plus-Association Equation of State to Glycolâ^'Water Cross-Associating Systems. Industrial & Engineering Chemistry Research, 2003, 42, 1470-1477.	3.7	99
20	An electrolyte CPA equation of state for mixed solvent electrolytes. AICHE Journal, 2015, 61, 2933-2950.	3.6	92
21	Extended UNIQUAC model for thermodynamic modeling of CO2 absorption in aqueous alkanolamine solutions. Fluid Phase Equilibria, 2009, 282, 121-132.	2.5	91
22	Industrial Requirements for Thermodynamic and Transport Properties: 2020. Industrial & Engineering Chemistry Research, 2021, 60, 4987-5013.	3.7	90
23	Experimental validation of a rate-based model for CO2 capture using an AMP solution. Chemical Engineering Science, 2007, 62, 2397-2413.	3.8	88
24	Binary interaction parameters for nonpolar systems with cubic equations of state: a theoretical approach 1. CO2/hydrocarbons using SRK equation of state. Fluid Phase Equilibria, 1994, 102, 31-60.	2.5	86
25	Application of the CPA equation of state to glycol/hydrocarbons liquidâ€"liquid equilibria. Fluid Phase Equilibria, 2003, 209, 163-184.	2.5	85
26	Modeling Water Containing Systems with the Simplified PC-SAFT and CPA Equations of State. Industrial & Engineering Chemistry Research, 2014, 53, 14493-14507.	3.7	84
27	Equation of state modelling of systems with ionic liquids: Literature review and application with the Cubic Plus Association (CPA) model. Fluid Phase Equilibria, 2012, 332, 128-143.	2.5	82
28	Modeling phase equilibria of alkanols with the simplified PC-SAFT equation of state and generalized pure compound parameters. Fluid Phase Equilibria, 2007, 258, 83-94.	2.5	80
29	Comparison of the Debyeâ€"HÃ¼ckel and the Mean Spherical Approximation Theories for Electrolyte Solutions. Industrial & Engineering Chemistry Research, 2012, 51, 5353-5363.	3.7	77
30	Modeling of CO2 absorber using an AMP solution. AICHE Journal, 2006, 52, 3443-3451.	3.6	76
31	Data and prediction of water content of high pressure nitrogen, methane and natural gas. Fluid Phase Equilibria, 2007, 252, 162-174.	2.5	75
32	Evaluation of the Truncated Perturbed Chain-Polar Statistical Associating Fluid Theory for Complex Mixture Fluid Phase Equilibria. Industrial & Engineering Chemistry Research, 2006, 45, 6063-6074.	3.7	73
33	Comparison of Two Association Models (Elliottâ^'Sureshâ^'Donohue and Simplified PC-SAFT) for Complex Phase Equilibria of Hydrocarbonâ^'Water and Amine-Containing Mixtures. Industrial & Engineering Chemistry Research, 2006, 45, 8170-8179.	3.7	73
34	Modeling of Dielectric Properties of Aqueous Salt Solutions with an Equation of State. Journal of Physical Chemistry B, 2013, 117, 10523-10533.	2.6	73
35	A comprehensive framework for surfactant selection and design for emulsion based chemical product design. Fluid Phase Equilibria, 2014, 362, 288-299.	2.5	72
36	Evaluation of the CO2 behavior in binary mixtures with alkanes, alcohols, acids and esters using the Cubic-Plus-Association Equation of State. Journal of Supercritical Fluids, 2011, 55, 876-892.	3.2	71

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37	Preparation and structural characterisation of novel and versatile amphiphilic octenyl succinic anhydrideâ€“modified hyaluronic acid derivatives. Carbohydrate Polymers, 2010, 79, 597-605.	10.2	70
38	Application of the Cubic-Plus-Association Equation of State to Mixtures with Polar Chemicals and High Pressures. Industrial & Engineering Chemistry Research, 2006, 45, 1516-1526.	3.7	69
39	Correlation of liquid-liquid equilibria for mixtures using the CPA equation of state. Fluid Phase Equilibria, 1997, 132, 61-75.	2.5	68
40	Evaluation of the Nonrandom Hydrogen Bonding (NRHB) Theory and the Simplified Perturbed-Chainâ^'Statistical Associating Fluid Theory (sPC-SAFT). 1. Vaporâ^'Liquid Equilibria. Industrial & Engineering Chemistry Research, 2008, 47, 5636-5650.	3.7	68
41	Evaluation of the Nonrandom Hydrogen Bonding (NRHB) Theory and the Simplified Perturbed-Chainâ^'Statistical Associating Fluid Theory (sPC-SAFT). 2. Liquidâ^'Liquid Equilibria and Prediction of Monomer Fraction in Hydrogen Bonding Systems. Industrial & Engineering Chemistry Research, 2008, 47, 5651-5659.	3.7	68
42	Thirty Years with EoS/G^E Modelsâ€"What Have We Learned?. Industrial & Engineering Chemistry Research, 2012, 51, 4119-4142.	3.7	68
43	Application of the van der Waals equation of state to polymers. Fluid Phase Equilibria, 1994, 96, 65-92.	2.5	64
44	Investigating Models for Associating Fluids Using Spectroscopy. Industrial & Engineering Chemistry Research, 2006, 45, 5368-5374.	3.7	62
45	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.	5.1	62
46	Application of COSMO-RS and UNIFAC for ionic liquids based gas separation. Chemical Engineering Science, 2018, 192, 816-828.	3.8	61
47	Modeling vaporâ€“liquid interfaces with the gradient theory in combination with the CPA equation of state. Fluid Phase Equilibria, 2005, 228-229, 479-485.	2.5	59
48	Group Contribution Based Estimation Method for Properties of Ionic Liquids. Industrial & Engineering Chemistry Research, 2019, 58, 4277-4292.	3.7	59
49	Application of the perturbed chain SAFT equation of state to complex polymer systems using simplified mixing rules. Fluid Phase Equilibria, 2004, 215, 71-78.	2.5	58
50	Applying Association Theories to Polar Fluids. Industrial & Engineering Chemistry Research, 2004, 43, 1803-1806.	3.7	58
51	Approach to Improve Speed of Sound Calculation within PC-SAFT Framework. Industrial & Engineering Chemistry Research, 2012, 51, 14903-14914.	3.7	58
52	A multi-layered view of chemical and biochemical engineering. Chemical Engineering Research and Design, 2020, 155, A133-A145.	5.6	58
53	Capabilities, limitations and challenges of a simplified PC-SAFT equation of state. Fluid Phase Equilibria, 2006, 241, 344-353.	2.5	56
54	High-pressure vaporâ€“liquid equilibria of systems containing ethylene glycol, water and methane. Fluid Phase Equilibria, 2007, 251, 52-58.	2.5	56

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55	Determination of asphaltene onset conditions using the cubic plus association equation of state. Fluid Phase Equilibria, 2015, 400, 8-19.	2.5	56
56	Application of the CPA equation of state to organic acids. Fluid Phase Equilibria, 2004, 225, 107-113.	2.5	55
57	Use of monomer fraction data in the parametrization of association theories. Fluid Phase Equilibria, 2010, 296, 219-229.	2.5	55
58	Novel Method for Estimating Pure-Component Parameters for Polymers:â€‰ Application to the PC-SAFT Equation of State. Industrial & Engineering Chemistry Research, 2004, 43, 2830-2838.	3.7	54
59	Liquidâ^'Liquid Equilibria for Glycols + Hydrocarbons:â€‰ Data and Correlation. Journal of Chemical & Engineering Data, 2002, 47, 169-173.	1.9	53
60	Vaporâ€“liquid, liquidâ€“liquid and vaporâ€“liquidâ€“liquid equilibrium of binary and multicomponent systems with MEG. Fluid Phase Equilibria, 2006, 249, 67-74.	2.5	53
61	Vaporâ€“Liquid Equilibrium of Methane with Water and Methanol. Measurements and Modeling. Journal of Chemical & Engineering Data, 2014, 59, 961-967.	1.9	53
62	Modeling of Dielectric Properties of Complex Fluids with an Equation of State. Journal of Physical Chemistry B, 2013, 117, 3389-3397.	2.6	52
63	Prediction of solidâ€“gas equilibria with the Pengâ€“Robinson equation of state. Journal of Supercritical Fluids, 2003, 25, 197-212.	3.2	50
64	Application of the CPA equation of state to reservoir fluids in presence of water and polar chemicals. Fluid Phase Equilibria, 2009, 276, 75-85.	2.5	50
65	Equations of state: From the ideas of van der Waals to association theories. Journal of Supercritical Fluids, 2010, 55, 421-437.	3.2	50
66	Liquidâ^'Liquid Equilibria for Binary and Ternary Systems Containing Glycols, Aromatic Hydrocarbons, and Water:â€‰ Experimental Measurements and Modeling with the CPA EoS. Journal of Chemical & Engineering Data, 2006, 51, 977-983.	1.9	49
67	Taking Another Look at the van der Waals Equation of Stateâ€“Almost 150 Years Later. Journal of Chemical & Engineering Data, 2019, 64, 4619-4637.	1.9	48
68	Thermodynamic Modeling of Acidic Gas Solubility in Aqueous Solutions of MEA, MDEA and MEAâ^'MDEA Blends. Industrial & Engineering Chemistry Research, 2006, 45, 5148-5154.	3.7	46
69	Modeling the Phase Behavior in Mixtures of Pharmaceuticals with Liquid or Supercritical Solvents. Journal of Physical Chemistry B, 2009, 113, 6446-6458.	2.6	46
70	Application of PC-SAFT to glycol containing systems â€“ PC-SAFT towards a predictive approach. Fluid Phase Equilibria, 2007, 261, 248-257.	2.5	45
71	Comparison of the SRK and CPA equations of state for physical properties of water and methanol. Fluid Phase Equilibria, 2006, 247, 149-157.	2.5	44
72	Prediction of Liquid-Liquid Equilibrium for Binary Polymer Solutions with Simple Activity Coefficient Models. Industrial & Engineering Chemistry Research, 1995, 34, 1823-1834.	3.7	43

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73	Prediction and Correlation of High-Pressure Gas Solubility in Polymers with Simplified PC-SAFT. Industrial & Engineering Chemistry Research, 2005, 44, 3330-3335.	3.7	43
74	Modeling Systems Containing Alkanolamines with the CPA Equation of State. Industrial & Engineering Chemistry Research, 2008, 47, 7441-7446.	3.7	43
75	Absorber Model for CO₂ Capture by Monoethanolamine. Industrial & Engineering Chemistry Research, 2010, 49, 3751-3759.	3.7	43
76	Critical constants and acentric factors for long-chain alkanes suitable for corresponding states applications. A critical review. Chemical Engineering Journal, 1997, 66, 35-49.	12.7	42
77	Recent applications of the cubic-plus-association (CPA) equation of state to industrially important systems. Fluid Phase Equilibria, 2005, 228-229, 121-126.	2.5	42
78	Extension of the Cubic-plus-Association (CPA) Equation of State to Amines. Industrial & Engineering Chemistry Research, 2005, 44, 4406-4413.	3.7	42
79	Prediction of the vaporâ€“liquid 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	42
80	Improved models for the prediction of activity coefficients in nearly athermal mixtures. Fluid Phase Equilibria, 1994, 92, 35-66.	2.5	40
81	Novel self-associative and multiphasic nanostructured soft carriers based on amphiphilic hyaluronic acid derivatives. Carbohydrate Polymers, 2012, 87, 444-451.	10.2	40
82	Capabilities and Limitations of Predictive Engineering Theories for Multicomponent Adsorption. Industrial & Engineering Chemistry Research, 2013, 52, 11552-11563.	3.7	39
83	Adsorption of Amylase Enzyme on Ultrafiltration Membranes. Langmuir, 2007, 23, 9341-9351.	3.5	38
84	Thermodynamics of Triethylene Glycol and Tetraethylene Glycol Containing Systems Described by the Cubic-Plus-Association Equation of State. Industrial & Engineering Chemistry Research, 2009, 48, 5472-5480.	3.7	38
85	Modeling of the Critical Micelle Concentration (CMC) of Nonionic Surfactants with an Extended Group-Contribution Method. Industrial & Engineering Chemistry Research, 2013, 52, 12236-12246.	3.7	38
86	On petroleum fluid characterization with the PC-SAFT equation of state. Fluid Phase Equilibria, 2014, 375, 254-268.	2.5	38
87	A density gradient theory based method for surface tension calculations. Fluid Phase Equilibria, 2016, 428, 153-163.	2.5	38
88	Application of the Simplified PC-SAFT Equation of State to the Vaporâ"Liquid Equilibria of Binary and Ternary Mixtures of Polyamide 6 with Several Solvents. Industrial & Engineering Chemistry Research, 2004, 43, 826-834.	3.7	36
89	Predicting enhanced absorption of light gases in polyethylene using simplified PC-SAFT and SAFT-VR. Fluid Phase Equilibria, 2006, 243, 74-91.	2.5	36
90	Modelling of associating mixtures for applications in the oil & gas and chemical industries. Fluid Phase Equilibria, 2007, 261, 205-211.	2.5	36

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91	Integrated ionic liquid and process design involving azeotropic separation processes. Chemical Engineering Science, 2019, 203, 402-414.	3.8	36
92	Measurement and modelling of hydrogen bonding in 1-alkanol+n-alkane binary mixtures. Fluid Phase Equilibria, 2007, 261, 272-280.	2.5	35
93	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	35
94	Application of the LCVM model to systems containing organic compounds and supercritical carbon dioxide. Journal of Supercritical Fluids, 1996, 9, 88-98.	3.2	34
95	Modeling the solidâ€“liquid equilibrium in pharmaceuticalâ€solvent mixtures: Systems with complex hydrogen bonding behavior. AICHE Journal, 2009, 55, 756-770.	3.6	34
96	Association theories for complex thermodynamics. Chemical Engineering Research and Design, 2013, 91, 1840-1858.	5.6	34
97	Structure optimization of tailored ionic liquids and process simulation for shale gas separation. AICHE Journal, 2020, 66, e16794.	3.6	34
98	Liquidâ^'Liquid Equilibria for Binary and Ternary Polymer Solutions with PC-SAFT. Industrial & Engineering Chemistry Research, 2004, 43, 1125-1132.	3.7	33
99	Investigation of the Gas Injection Effect on Asphaltene Onset Precipitation Using the Cubic-Plus-Association Equation of State. Energy & Fuels, 2016, 30, 3560-3574.	5.1	33
100	Hydrate equilibrium data for the CO2Â+ÂN2 system with the use of tetra-n-butylammonium bromide (TBAB), cyclopentane (CP) and their mixture. Fluid Phase Equilibria, 2016, 408, 240-247.	2.5	33
101	An interpretation of the behavior of EoS/GE models for asymmetric systems. Chemical Engineering Science, 2000, 55, 2351-2358.	3.8	32
102	A novel approach to liquidâ€“liquid equilibrium in polymer systems with application to simplified PC-SAFT. Fluid Phase Equilibria, 2004, 222-223, 87-93.	2.5	32
103	Phase equilibria modeling of methanol-containing systems with the CPA and sPC-SAFT equations of state. Fluid Phase Equilibria, 2010, 288, 128-138.	2.5	32
104	Pitfalls of using the geometric-mean combining rule in the density gradient theory. Fluid Phase Equilibria, 2016, 415, 75-83.	2.5	32
105	Application of the van der Waals equation of state to polymers. Fluid Phase Equilibria, 1994, 96, 93-117.	2.5	31
106	Phase Equilibrium Modelling for Mixtures with Acetic Acid Using an Association Equation of State. Industrial & Engineering Chemistry Research, 2008, 47, 5660-5668.	3.7	31
107	Gas Adsorption and Interfacial Tension with Classical Density Functional Theory. Industrial & Engineering Chemistry Research, 2019, 58, 5650-5664.	3.7	31
108	Application of sPC-SAFT and group contribution sPC-SAFT to polymer systemsâ€”Capabilities and limitations. Fluid Phase Equilibria, 2009, 281, 70-77.	2.5	30

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109	Gas Solubility in Ionic Liquids: UNIFAC-IL Model Extension. Industrial & Engineering Chemistry Research, 2020, 59, 16805-16821.	3.7	30
110	Dimerization of Carboxylic Acids: An Equation of State Approach. Journal of Physical Chemistry B, 2017, 121, 2153-2163.	2.6	29
111	Equations of state and activity coefficient models for vapor-liquid equilibria of polymer solutions. AICHE Journal, 1994, 40, 1711-1727.	3.6	28
112	Improved models for the prediction of activity coefficients in nearly athermal mixtures Part II. A theoretically-based GE-model based on the van der Waals partition function. Fluid Phase Equilibria, 1997, 127, 103-121.	2.5	28
113	An improved entropic expression for polymer solutions. Fluid Phase Equilibria, 2002, 202, 325-335.	2.5	28
114	Potential Theory of Adsorption for Associating Mixtures: Possibilities and Limitations. Industrial & Engineering Chemistry Research, 2013, 52, 2672-2684.	3.7	28
115	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	28
116	Application of the van der Waals equation of state to polymers III. Correlation and prediction of upper critical solution temperatures for polymer solutions. Fluid Phase Equilibria, 1994, 100, 63-102.	2.5	27
117	Application of the van der Waals equation of state to polymers IV. Correlation and prediction of lower critical solution temperatures for polymer solutions. Fluid Phase Equilibria, 1996, 115, 73-93.	2.5	27
118	Thermodynamics of paint-related systems with engineering models. AICHE Journal, 2001, 47, 2573-2584.	3.6	27
119	Approach Suitable for Screening Estimation Methods for Critical Properties of Heavy Compounds. Industrial & Engineering Chemistry Research, 2006, 45, 476-480.	3.7	27
120	Analysis and applications of a group contribution sPC-SAFT equation of state. Fluid Phase Equilibria, 2009, 281, 60-69.	2.5	27
121	eCPA: An ion-specific approach to parametrization. Fluid Phase Equilibria, 2018, 470, 176-187.	2.5	27
122	Analysis of Some Electrolyte Models Including Their Ability to Predict the Activity Coefficients of Individual Ions. Industrial & Engineering Chemistry Research, 2020, 59, 11790-11809.	3.7	27
123	On the estimation of water pure compound parameters in association theories. Molecular Physics, 2007, 105, 1797-1801.	1.7	26
124	Adhesion between coating layers based on epoxy and silicone. Journal of Colloid and Interface Science, 2007, 316, 678-686.	9.4	26
125	Modeling of the Thermodynamics of the Acetic Acidâ^'Water Mixture Using the Cubic-Plus-Association Equation of State. Industrial & Engineering Chemistry Research, 2011, 50, 5795-5805.	3.7	26
126	Experimental study and phase equilibrium modeling of systems containing acid gas and glycol. Fluid Phase Equilibria, 2012, 318, 40-50.	2.5	26

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127	A novel method for investigating the repulsive and attractive parts of cubic equations of state and the combining rules used with the vdW-1f theory. Chemical Engineering Science, 1998, 53, 541-552.	3.8	25
128	General Form of the Cross-Energy Parameter of Equations of State. Industrial & Engineering Chemistry Research, 2000, 39, 3076-3082.	3.7	25
129	Modeling the vaporâ€“liquid equilibria of polymerâ€“solvent mixtures: Systems with complex hydrogen bonding behavior. Fluid Phase Equilibria, 2009, 280, 100-109.	2.5	25
130	Computer-aided design of ionic liquids for hybrid process schemes. Computers and Chemical Engineering, 2019, 130, 106556.	3.8	25
131	Separation of NH3/CO2 from melamine tail gas with ionic liquid: Process evaluation and thermodynamic properties modelling. Separation and Purification Technology, 2021, 274, 119007.	7.9	25
132	Intramolecular association within the SAFT framework. Molecular Physics, 2011, 109, 1759-1769.	1.7	24
133	Thermodynamic Modeling of Natural Gas Systems Containing Water. Industrial & Engineering Chemistry Research, 2013, 52, 3499-3513.	3.7	24
134	Modeling of Asphaltene Precipitation from Crude Oil with the Cubic Plus Association Equation of State. Energy & Fuels, 2017, 31, 2063-2075.	5.1	24
135	Good reporting practice for thermophysical and thermochemical property measurements (IUPAC) Tj ETQq1 1 0.784314 rgBT /Overloc	1.9	24
136	Water structure, properties and some applications â€“ A review. Chemical Thermodynamics and Thermal Analysis, 2022, 6, 100053.	1.5	24
137	Modeling the Liquidâ^'Liquid Equilibria of Water + Fluorocarbons with the Cubic-Plus-Association Equation of State. Industrial & Engineering Chemistry Research, 2007, 46, 1415-1420.	3.7	23
138	Towards predictive association theories. Fluid Phase Equilibria, 2011, 301, 244-256.	2.5	23
139	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.	3.7	23
140	Modeling systems relevant to the biodiesel production using the CPA equation of state. Fluid Phase Equilibria, 2016, 430, 75-92.	2.5	23
141	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	23
142	Modeling of Gas Solubility Using the Electrolyte Cubic Plus Association Equation of State. Industrial & Engineering Chemistry Research, 2019, 58, 17555-17567.	3.7	23
143	Miscibility of polymer blends with engineering models. AICHE Journal, 1996, 42, 3170-3180.	3.6	22
144	Modeling of multicomponent vaporâ€“liquid equilibria for polymerâ€“solvent systems. Fluid Phase Equilibria, 2004, 220, 11-20.	2.5	22

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145	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.	3.7	22
146	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.	1.9	22
147	Modeling the liquidâ€“liquid 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	22
148	A group contribution-based prediction method for the electrical conductivity of ionic liquids. Fluid Phase Equilibria, 2020, 509, 112462.	2.5	22
149	Application of Simplified PC-SAFT to Glycol Ethers. Industrial & Engineering Chemistry Research, 2012, 51, 547-555.	3.7	21
150	Process Design of Industrial Triethylene Glycol Processes Using the Cubic-Plus-Association (CPA) Equation of State. Industrial & Engineering Chemistry Research, 2014, 53, 11766-11778.	3.7	21
151	Sustainable solutions by integrating process synthesis-intensification. Computers and Chemical Engineering, 2019, 126, 499-519.	3.8	21
152	Assessment of Activity Coefficient Models for Predicting Solidâ^'Liquid Equilibria of Asymmetric Binary Alkane Systems. Industrial & Engineering Chemistry Research, 1999, 38, 316-323.	3.7	20
153	Prediction of Micelle Formation for Aqueous Polyoxyethylene Alcohol Solutions with the UNIFAC Model. Industrial & Engineering Chemistry Research, 2002, 41, 892-898.	3.7	20
154	Modelling of phase equilibria of glycol ethers mixtures using an association model. Fluid Phase Equilibria, 2008, 273, 11-20.	2.5	20
155	Phase Equilibria of Mixtures Containing Glycol and n-Alkane: Experimental Study of Infinite Dilution Activity Coefficients and Modeling Using the Cubic-Plus-Association Equation of State. Industrial & Engineering Chemistry Research, 2009, 48, 11202-11210.	3.7	20
156	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	20
157	A comment on waterâ€™s structure using monomer fraction data and theories. Fluid Phase Equilibria, 2016, 407, 2-6.	2.5	20
158	Predicting activity coefficients with the <scp>Debyeâ€“HÃ¼ckel</scp> theory using concentration dependent static permittivity. AICHE Journal, 2020, 66, e16651.	3.6	20
159	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.	3.2	19
160	A collocation method for surface tension calculations with the density gradient theory. Fluid Phase Equilibria, 2016, 408, 170-179.	2.5	19
161	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.	5.1	19
162	A review of computer-aided design of paints and coatings. Current Opinion in Chemical Engineering, 2020, 27, 107-120.	7.8	19

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163	Modeling of Gas Solubility in Aqueous Electrolyte Solutions with the eSAFT-VR Mie Equation of State. Industrial & Engineering Chemistry Research, 2021, 60, 15327-15342.	3.7	19
164	Importance of the Relative Static Permittivity in electrolyte SAFT-VR Mie Equations of State. Fluid Phase Equilibria, 2022, 551, 113256.	2.5	19
165	Application of Group Contribution Models to the Calculation of the Octanolâ^'Water Partition Coefficient. Industrial & Engineering Chemistry Research, 2001, 40, 434-443.	3.7	18
166	An Explanation of the Selective Plating of Laser Machined Surfaces Using Surface Tension Components. Journal of Adhesion Science and Technology, 2011, 25, 2101-2111.	2.6	18
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