Jean Nol Jaubert

List of Publications by Year in Descending Order

182 papers	5,987 citations	46 h-index	70 g-index
188 ext. papers	6,706 ext. citations	3.4 avg, IF	6.15 L-index

#	Paper	IF	Citations
182	Fluid phase equilibria for the CO2 + 2,3-dimethylbutane binary system from 291.9 K to 373.1 K. *Journal of Supercritical Fluids*, **2022**, 179, 105387	4.2	2
181	The impressive impact of including enthalpy and heat capacity of mixing data when parameterising equations of state. Application to the development of the E-PPR78 (Enhanced-Predictive-Peng-Robinson-78) model.. *Fluid Phase Equilibria*, **2022**, 113456	2.5	0
180	High-Pressure Phase Equilibria Measurements of the Carbon Dioxide + Cycloheptane Binary System. *Journal of Chemical & Engineering Data*, **2022**, 67, 176-181	2.8	0
179	What Is the Optimal Activity Coefficient Model To Be Combined with the translated-Consistent Peng-Robinson Equation of State through Advanced Mixing Rules? Cross-Comparison and Grading of the Wilson, UNIQUAC, and NRTL aE Models against a Benchmark Database Involving 200 Binary Systems. *Industrial & Engineering Chemistry Research*, **2021**, 60, 17228-17247	3.9	3
178	SAFT and cubic EoS: Type of deviation from ideality naturally predicted in the absence of BIPs. Application to the modelling of athermal mixtures. *Fluid Phase Equilibria*, **2021**, 533, 112924	2.5	4
177	Assessment of the Perturbed Chain-Statistical Associating Fluid Theory Equation of State against a Benchmark Database of High-Quality Binary-System Data. *Industrial & Engineering Chemistry Research*, **2021**, 60, 8935-8946	3.9	5
176	Good Reporting Practice for Thermophysical and Thermochemical Property Measurements (IUPAC Technical Report).. *Pure and Applied Chemistry*, **2021**, 93,	2.1	14
175	Thermo-chemical engines: Unexploited high-potential energy converters. *Energy Conversion and Management*, **2021**, 229, 113685	10.6	1
174	Experimental determination and modelling of high-pressure phase behavior for the binary system CO2 + cyclooctane. *Journal of Supercritical Fluids*, **2021**, 174, 105249	4.2	2
173	Design of Promising Working Fluids for Emergent Combined Cooling, Heating, and Power (CCHP) Systems. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 11807-11824	8.3	1
172	Assessment of organic Rankine cycle configurations for solar polygeneration orientated to electricity production and desalination. *Applied Thermal Engineering*, **2021**, 195, 116983	5.8	4
171	Revisiting the Entropy-Scaling Concept for Shear-Viscosity Estimation from Cubic and SAFT Equations of State: Application to Pure Fluids in Gas, Liquid and Supercritical States. *Industrial & Engineering Chemistry Research*, **2021**, 60, 12719-12739	3.9	3
170	Phase equilibria of mixtures involving fatty acid ethyl esters and fat alcohols between 4 and 27 kPa for bioproduct production. *Fuel*, **2021**, 306, 121304	7.1	1
169	Accurate quantum-corrected cubic equations of state for helium, neon, hydrogen, deuterium and their mixtures. *Fluid Phase Equilibria*, **2020**, 524, 112790	2.5	4
168	Development and characterization of electrospun curcumin-loaded antimicrobial nanofibrous membranes. *Textile Reseach Journal*, **2020**, 004051752092551	1.7	4
167	A new technique for the synthesis of lanthanum substituted nickel cobaltite nanocomposites for the photo catalytic degradation of organic dyes in wastewater. *Arabian Journal of Chemistry*, **2020**, 13, 6341-6347	5.9	1
166	Vapor-Liquid Equilibria of the CH4 + CO2 + H2S Ternary System with Two Different Global Compositions: Experiments and Modeling. *Journal of Chemical & Engineering Data*, **2020**, 65, 1802-1813	2.8	4

165	Thermophysical properties of switchable-hydrophilicity solvent systems: N,N-Dipropyl-1-propanamine, water and carbon dioxide. *Journal of Chemical Thermodynamics*, **2020**, 143, 106049	2.9	1
164	Stationary gas turbines: an exergetic approach to part load operation. *Oil and Gas Science and Technology*, **2020**, 75, 10	1.9	
163	Modelling of multi-component droplet evaporation under cryogenic conditions. *Oil and Gas Science and Technology*, **2020**, 75, 81	1.9	3
162	4-Chloro-2-nitroaniline Solubility in Several Pure Solvents: Determination, Modeling, and Solvent Effect Analysis. *Journal of Chemical & Engineering Data*, **2020**, 65, 222-232	2.8	10
161	Benchmark Database Containing Binary-System-High-Quality-Certified Data for Cross-Comparing Thermodynamic Models and Assessing Their Accuracy. *Industrial & Engineering Chemistry Research*, **2020**, 59, 14981-15027	3.9	17
160	Parameterization of SAFT Models: Analysis of Different Parameter Estimation Strategies and Application to the Development of a Comprehensive Database of PC-SAFT Molecular Parameters. *Journal of Chemical & Engineering Data*, **2020**, 65, 5920-5932	2.8	6
159	Search for the optimal expression of the volumetric dependence of the attractive contribution in cubic equations of state. *Fluid Phase Equilibria*, **2020**, 522, 112750	2.5	10
158	Note on the inconsistent definition assigned in the literature to the heat capacity of the so-called Equilibrium hydrogen mixture. *Fluid Phase Equilibria*, **2020**, 504, 112325	2.5	1
157	Exergetic analysis of an LPG production plant using HYSYS software. *Energy Procedia*, **2019**, 157, 1385-1390	2.5	3
156	From ethyl biodiesel to biolubricants: Options for an Indian mustard integrated biorefinery toward a green and circular economy. *Industrial Crops and Products*, **2019**, 137, 597-614	5.9	16
155	Application of the Corresponding-State Law to the Parametrization of Statistical Associating Fluid Theory (SAFT)-Type Models: Generation and Use of Generalized Charts *Industrial & Engineering Chemistry Research*, **2019**, 58, 9127-9139	3.9	8
154	Can we safely predict solvation Gibbs energies of pure and mixed solutes with a cubic equation of state?. *Pure and Applied Chemistry*, **2019**, 91, 1295-1307	2.1	3
153	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
152	I-PC-SAFT: An Industrialized Version of the Volume-Translated PC-SAFT Equation of State for Pure Components, Resulting from Experience Acquired All through the Years on the Parameterization of SAFT-Type and Cubic Models. *Industrial & Engineering Chemistry Research*, **2019**, 58, 20815-20827	3.9	25
151	Updated versions of the generalized Soave Function suitable for the Redlich-Kwong and Peng-Robinson equations of state. *Fluid Phase Equilibria*, **2019**, 485, 264-269	2.5	40
150	A thermal and thermodynamic code for the computation of Boil-Off Gas Industrial applications of LNG carrier. *Cryogenics*, **2019**, 99, 105-113	1.8	19
149	The Impact of Thermodynamic Model Accuracy on Sizing and Operating CCS Purification and Compression Units **2018**, 317-359		
148	Sizing and operating units for the purification and compression of CO2-based streams: The impact of thermodynamic model accuracy. *Journal of Supercritical Fluids*, **2018**, 140, 336-347	4.2	7

147	Thermodynamic study of binary systems containing sulphur dioxide and nitric oxide: Measurements and modelling. *Fluid Phase Equilibria*, **2018**, 461, 84-100	2.5	3
146	Superstructure optimization (MINLP) within ProSimPlus Simulator. *Computer Aided Chemical Engineering*, **2018**, 767-772	0.6	1
145	Modelling the thermodynamics of air-component mixtures (N2, O2 and Ar): Comparison and performance analysis of available models. *Fluid Phase Equilibria*, **2018**, 458, 278-287	2.5	2
144	Densities, Apparent Molar Volume, Expansivities, Hepler Constant, and Isobaric Thermal Expansion Coefficients of the Binary Mixtures of Piperazine with Water, Methanol, and Acetone at T = 293.15 to 328.15 K. *International Journal of Chemical Engineering*, **2018**, 2018, 1-10	2.2	7
143	Inert and Reactive Working Fluids for Closed Power Cycles: Present Knowledge, Applications and Open Researches **2018**,		1
142	Analysis of the Combinations of Property Data That Are Suitable for a Safe Estimation of Consistent Twu Function Parameters: Updated Parameter Values for the Translated-Consistent tc-PR and tc-RK Cubic Equations of State. *Journal of Chemical & Engineering Data*, **2018**, 63, 3980-3988	2.8	29
141	Measurement and prediction of multi-property data of CO2-N2-O2-CH4 mixtures with the Peng-Robinson´+´residual Helmholtz energy-based model. *Fluid Phase Equilibria*, **2017**, 437, 166-180	2.5	11
140	Optimizing Thermodynamic Models: The Relevance of Molar Fraction Uncertainties. *Journal of Chemical & Engineering Data*, **2017**, 62, 825-832	2.8	8
139	Modeling the Thermodynamics of Fluids Treated by CO2 Capture Processes with Peng Robinson + Residual Helmholtz Energy-Based Mixing Rules. *Industrial & Engineering Chemistry Research*, **2017**, 56, 2259-2276	3.9	17
138	Phase equilibrium data and modeling of ethylic biodiesel, with application to a non-edible vegetable oil. *Fuel*, **2017**, 203, 633-641	7.1	6
137	On the imperative need to use a consistent function for the prediction of pure-compound supercritical properties with a cubic equation of state. *Fluid Phase Equilibria*, **2017**, 445, 45-53	2.5	59
136	Selection of a Proper Equation of State for the Modeling of a Supercritical CO2 Brayton Cycle: Consequences on the Process Design. *Industrial & Engineering Chemistry Research*, **2017**, 56, 6841-6853	3.9	13
135	E -PPR78: A proper cubic EoS for modelling fluids involved in the design and operation of carbon dioxide capture and storage (CCS) processes. *International Journal of Greenhouse Gas Control*, **2017**, 56, 126-154	4.2	35
134	Estimation of Solvation Quantities from Experimental Thermodynamic Data: Development of the Comprehensive CompSol Databank for Pure and Mixed Solutes. *Journal of Physical and Chemical Reference Data*, **2017**, 46, 033102	4.3	20
133	Simulations of the Impact of Co-injected Gases on CO2 Storage, the SIGARRR Project: Processes and Geochemical Approaches for Gas-water-Salt Interactions Modeling. *Energy Procedia*, **2017**, 114, 3322-3334	2.3	3
132	The design of CO 2 -based working fluids for high-temperature heat source power cycles. *Energy Procedia*, **2017**, 129, 947-954	2.3	6
131	Solubility and freezing point depression (FPD) measurements of Na-1-ethanethiolate, Na-1-propanethiolate, Na-2-propanethiolate, Na-1-butanethiolate, and Na-2-methyl-2-propanethiolate salts in pure water. *Chemical Engineering Communications*, **2017**, 204, 1225-1236	2.2	
130	Prediction of Thermodynamic Properties of Alkyne-Containing Mixtures with the E-PPR78 Model. *Industrial & Engineering Chemistry Research*, **2017**, 56, 8143-8157	3.9	16

129	Phase equilibrium of CCS mixtures: Equation of state modeling and Monte Carlo simulation. *Journal of Supercritical Fluids*, **2017**, 119, 169-202	4.2	23
128	Fluid-phase-equilibrium prediction of fluorocompound-containing binary systems with the predictive E-PPR78 model. *International Journal of Refrigeration*, **2017**, 73, 65-90	3.8	22
127	Incorporation of a volume translation in an equation of state for fluid mixtures: which combining rule? which effect on properties of mixing?. *Fluid Phase Equilibria*, **2016**, 427, 414-420	2.5	50
126	A consistency test for α-functions of cubic equations of state. *Fluid Phase Equilibria*, **2016**, 427, 513-538	2.5	98
125	Development of the translated-consistent tc-PR and tc-RK cubic equations of state for a safe and accurate prediction of volumetric, energetic and saturation properties of pure compounds in the sub- and super-critical domains. *Fluid Phase Equilibria*, **2016**, 429, 301-312	2.5	85
124	Application of PPR78 Thermodynamic Framework as a Fill Method with a Semiempirical Mixing Rule for Mixtures Involved in Gas Processing. *Journal of Chemical & Engineering Data*, **2016**, 61, 4164-4171	2.8	3
123	Improving Students' Understanding of the Connections between the Concepts of Real-Gas Mixtures, Gas Ideal-Solutions, and Perfect-Gas Mixtures. *Journal of Chemical Education*, **2016**, 93, 2040-2045	2.4	3
122	VLE properties of CO2 -Based binary systems containing N2, O2 and Ar: Experimental measurements and modelling results with advanced cubic equations of state. *Fluid Phase Equilibria*, **2016**, 428, 18-31	2.5	33
121	Integrating support vector regression with genetic algorithm for CO2-oil minimum miscibility pressure (MMP) in pure and impure CO2 streams. *Fuel*, **2016**, 182, 550-557	7.1	47
120	Design of Hybrid Fuels Using a Modeling Study of the Miscibility of Ethanol-Biodiesel-Hydrocarbon Systems. *International Journal of Thermophysics*, **2016**, 37, 1	2.1	1
119	A five-parameter empirical model for correlating the solubility of solid compounds in supercritical carbon dioxide. *Fluid Phase Equilibria*, **2016**, 411, 74-80	2.5	46
118	Note on the properties altered by application of a Péneloux-type volume translation to an equation of state. *Fluid Phase Equilibria*, **2016**, 419, 88-95	2.5	79
117	Teaching the Concept of Gibbs Energy Minimization through Its Application to Phase-Equilibrium Calculation. *Journal of Chemical Education*, **2016**, 93, 1569-1577	2.4	4
116	Editors' Preface for the Special Issue Dedicated to the 2015 JETC. *International Journal of Thermophysics*, **2016**, 37, 1	2.1	
115	Predicting Binary-Interaction Parameters of Cubic Equations of State for Petroleum Fluids Containing Pseudo-components. *Industrial & Engineering Chemistry Research*, **2015**, 54, 2816-2824	3.9	32
114	Extension of the E-PPR78 equation of state to predict fluid phase equilibria of natural gases containing carbon monoxide, helium-4 and argon. *Journal of Petroleum Science and Engineering*, **2015**, 133, 744-770	4.4	20
113	Addition of the Sulfur Dioxide Group (SO2), the Oxygen Group (O2), and the Nitric Oxide Group (NO) to the E-PPR78 Model. *Industrial & Engineering Chemistry Research*, **2015**, 54, 9494-9504	3.9	17
112	Analysis and prediction of the alpha-function parameters used in cubic equations of state. *Chemical Engineering Science*, **2015**, 126, 584-603	4.4	22

111	General reflection on critical negative azeotropy and upgrade of the Bancroft's rule with application to the acetone + chloroform binary system. *Journal of Supercritical Fluids*, **2014**, 94, 17-29	4.2	11
110	Editor? preface for the special issue ?omanian International Conference on Chemistry and Chemical Engineering? *Open Chemistry*, **2014**, 12, 747-748	1.6	
109	Development of a Predictive Equation of State for CO2 + Ethyl Ester Mixtures Based on Critical Points Measurements. *Journal of Chemical & Engineering Data*, **2014**, 59, 3205-3219	2.8	23
108	Experimental Measurement and Modeling of Phase Diagrams of Binary Systems Encountered in the Gasoline Desulfurization Process Using Ionic Liquids. *Journal of Chemical & Engineering Data*, **2014**, 59, 603-612	2.8	22
107	Predicting the Phase Equilibria of Carbon Dioxide Containing Mixtures Involved in CCS Processes Using the PPR78 Model **2014**,		3
106	Simulations of the Impact of Co-injected Gases on CO2 Storage, the SIGARRR Project: First Results on Water-gas Interactions Modeling. *Energy Procedia*, **2014**, 63, 3160-3171	2.3	9
105	Experimental measurements and correlation of vapor?iquid equilibrium and critical data for the CO2 + R1234yf and CO2 + R1234ze(E) binary mixtures. *International Journal of Refrigeration*, **2014**, 47, 141-152	3.8	46
104	Solubility of carbon dioxide, nitrous oxide and methane in ionic liquids at pressures close to atmospheric. *Fluid Phase Equilibria*, **2014**, 372, 26-33	2.5	35
103	Comments on ?omputational procedure for thermodynamic minimum miscibility pressure of reservoir oil? *Fuel*, **2013**, 107, 882-883	7.1	1
102	Novel Methodology for Analysis and Evaluation of SAFT-Type Equations of State. *Industrial & Engineering Chemistry Research*, **2013**, 52, 13875-13885	3.9	43
101	Classification of global fluid-phase equilibrium behaviors in binary systems. *Chemical Engineering Research and Design*, **2013**, 91, 1807-1839	5.5	111
100	Solubility of CO2 in 1-butyl-3-methylimidazolium diethylene-glycolmonomethylethersulfate and trihexyl(tetradecyl)phosphonium dodecyl-benzenesulfonate. *Fluid Phase Equilibria*, **2013**, 354, 191-198	2.5	15
99	Predicting the Phase Equilibria, Critical Phenomena, and Mixing Enthalpies of Binary Aqueous Systems Containing Alkanes, Cycloalkanes, Aromatics, Alkenes, and Gases (N2, CO2, H2S, H2) with the PPR78 Equation of State. *Industrial & Engineering Chemistry Research*, **2013**, 52, 16457-16490	3.9	76
98	Enthalpy and Heat Capacity Changes on Mixing: Fundamental Aspects and Prediction by Means of the PPR78 Cubic Equation of State. *Energy & Fuels*, **2013**, 27, 7150-7178	4.1	45
97	A simple and unified algorithm to solve fluid phase equilibria using either the gamma?hi or the phi?hi approach for binary and ternary mixtures. *Computers and Chemical Engineering*, **2013**, 50, 139-151	4	18
96	Reliability of the correlation allowing the kij to switch from an alpha function to another one in hydrogen-containing systems. *Fluid Phase Equilibria*, **2013**, 338, 23-29	2.5	15
95	Role of Impurities on CO2 Injection: Experimental and Numerical Simulations of Thermodynamic Properties of Water-salt-gas Mixtures (CO2 + Co-injected Gases) Under Geological Storage Conditions. *Energy Procedia*, **2013**, 37, 3638-3645	2.3	14
94	Prediction of the phase behavior of alkene-containing binary systems with the PPR78 model. *Fluid Phase Equilibria*, **2013**, 354, 212-235	2.5	35

93	Quest for an efficient binary working mixture for an absorption-demixing heat transformer. *Energy*, **2013**, 55, 594-609	7.9	7
92	Validation of a New Apparatus Using the Dynamic Method for Determining the Critical Properties of Binary Gas/Gas Mixtures. *Journal of Chemical & Engineering Data*, **2013**, 58, 671-676	2.8	21
91	The thermodynamics of alcohols-hydrocarbons mixtures. *MATEC Web of Conferences*, **2013**, 3, 01018	0.3	
90	Experimental determination of the critical locus of binary systems containing CO2and an ethyl ester. *MATEC Web of Conferences*, **2013**, 3, 01020	0.3	
89	Phase equilibria in hydrogen-containing binary systems modeled with the PengRobinson equation of state and temperature-dependent binary interaction parameters calculated through a group-contribution method. *Journal of Supercritical Fluids*, **2013**, 75, 58-71	4.2	56
88	Modeling phase diagrams of systems containing ionic liquids used in different applications. *MATEC Web of Conferences*, **2013**, 3, 01014	0.3	
87	Validation of a new apparatus using the dynamic and static methods for determining the critical properties of pure components and mixtures. *Journal of Supercritical Fluids*, **2012**, 68, 25-30	4.2	15
86	Discussion around the paradigm of ideal mixtures with emphasis on the definition of the property changes on mixing. *Chemical Engineering Science*, **2012**, 82, 319-333	4.4	24
85	Addition of the sulfhydryl group (SH) to the PPR78 model: Estimation of missing group-interaction parameters for systems containing mercaptans and carbon dioxide or nitrogen or methane, from newly published data. *Fluid Phase Equilibria*, **2012**, 334, 197-203	2.5	27
84	Fluid Phase Equilibria Correlation for Carbon Dioxide +1-Heptanol System with Cubic Equations of State. *Industrial & Engineering Chemistry Research*, **2012**, 51, 11284-11293	3.9	14
83	Testing the ability of various equations of state to reproduce high-pressure isotherm crossings in the (P) plane. *Fluid Phase Equilibria*, **2012**, 327, 45-57	2.5	7
82	Modeling the solubility of carbon dioxide in imidazolium-based ionic liquids with the PC-SAFT equation of state. *Journal of Physical Chemistry B*, **2012**, 116, 14375-88	3.4	92
81	Thermodynamic Models for the Prediction of Petroleum-Fluid Phase Behaviour **2012**,		3
80	Are safe results obtained when SAFT equations are applied to ordinary chemicals? Part 2: Study of solidquid equilibria in binary systems. *Fluid Phase Equilibria*, **2012**, 318, 61-76	2.5	35
79	Validation of a new apparatus using the dynamic method for determining the critical properties of binary mixtures containing CO2 and a n-alkane. *Fluid Phase Equilibria*, **2012**, 325, 66-70	2.5	15
78	Comments on PVTxy properties of CO2 mixtures relevant for CO2 capture, transport and storage: Review of available experimental data and theoretical models*Applied Energy*, **2012**, 93, 750-752	10.7	0
77	An improved crude oil atmospheric distillation process for energy integration: Part I: Energy and exergy analyses of the process when a flash is installed in the preheating train. *Applied Thermal Engineering*, **2012**, 32, 125-131	5.8	26
76	An improved crude oil atmospheric distillation process for energy integration: Part II: New approach for energy saving by use of residual heat. *Applied Thermal Engineering*, **2012**, 40, 132-144	5.8	15

75	Extraction of Thiophene or Pyridine from n-Heptane Using Ionic Liquids. Gasoline and Diesel Desulfurization. *Industrial & Engineering Chemistry Research*, **2011**, 50, 2296-2306	3.9	177
74	Extraction of n-Alcohols from n-Heptane Using Ionic Liquids.. *Journal of Chemical & Engineering Data*, **2011**, 56, 3873-3880	2.8	35
73	Péneloux's mixing rules: 25 years ago and now. *Fluid Phase Equilibria*, **2011**, 308, 164-167	2.5	8
72	Activity Coefficients at Infinite Dilution of Organic Compounds in Four New Imidazolium-Based Ionic Liquids. *Journal of Chemical & Engineering Data*, **2011**, 56, 3106-3114	2.8	72
71	Deep Fuels Desulfurization and Denitrogenation Using 1-Butyl-3-methylimidazolium Trifluoromethanesulfonate. *Energy & Fuels*, **2011**, 25, 1559-1565	4.1	77
70	Prediction of Partition Coefficients of Organic Compounds in Ionic Liquids Using a Temperature-Dependent Linear Solvation Energy Relationship with Parameters Calculated through a Group Contribution Method. *Journal of Chemical & Engineering Data*, **2011**, 56, 3598-3606	2.8	29
69	Life Cycle Assessment Applied to Naphtha Catalytic Reforming. *Oil and Gas Science and Technology*, **2010**, 65, 793-805	1.9	13
68	Study of Ether-, Alcohol-, or Cyano-Functionalized Ionic Liquids Using Inverse Gas Chromatography. *Journal of Chemical & Engineering Data*, **2010**, 55, 2434-2443	2.8	75
67	Prediction of Partition Coefficients of Organic Compounds in Ionic Liquids: Use of a Linear Solvation Energy Relationship with Parameters Calculated through a Group Contribution Method. *Industrial & Engineering Chemistry Research*, **2010**, 49, 3883-3892	3.9	59
66	Reducing of nitrous oxide emissions using ionic liquids. *Journal of Physical Chemistry B*, **2010**, 114, 8199-206	3.4	43
65	Extraction of benzene or thiophene from n-heptane using ionic liquids. NMR and thermodynamic study. *Journal of Physical Chemistry B*, **2010**, 114, 4600-8	3.4	120
64	High carbon dioxide solubilities in imidazolium-based ionic liquids and in poly(ethylene glycol) dimethyl ether. *Journal of Physical Chemistry B*, **2010**, 114, 12908-13	3.4	107
63	Ethanol-Hydrocarbon Blend Vapor Prediction. *Journal of Engineering for Gas Turbines and Power*, **2010**, 132,	1.7	5
62	Partition Coefficients of Organic Compounds in New Imidazolium and Tetralkylammonium Based Ionic Liquids Using Inverse Gas Chromatography. *Journal of Chemical & Engineering Data*, **2010**, 55, 234-242	2.8	136
61	Relationship between the binary interaction parameters (kij) of the Peng–Robinson and those of the Soave–Redlich–Kwong equations of state: Application to the definition of the PR2SRK model. *Fluid Phase Equilibria*, **2010**, 295, 26-37	2.5	121
60	Are safe results obtained when the PC-SAFT equation of state is applied to ordinary pure chemicals?. *Fluid Phase Equilibria*, **2010**, 295, 76-92	2.5	109
59	Predicting the phase equilibria of synthetic petroleum fluids with the PPR78 approach. *AICHE Journal*, **2010**, 56, 3225-3235	3.6	144
58	Estimation of the environmental impact of a petrochemical process using coupled LCA and exergy analysis. *Resources, Conservation and Recycling*, **2010**, 54, 291-298	11.9	36

57	(Vapor + liquid) equilibria of binary mixtures containing light alcohols and ionic liquids. *Journal of Chemical Thermodynamics*, **2010**, 42, 177-181	2.9	20
56	Comments on "Application of predictive equations of state in calculating natural gas phase envelopes and critical points". *Journal of Natural Gas Science and Engineering*, **2010**, 2, 150-151	4.6	8
55	Partition coefficients of organic compounds in new imidazolium based ionic liquids using inverse gas chromatography. *Journal of Chromatography A*, **2009**, 1216, 4775-86	4.5	73
54	Can cubic equations of state be recast in the virial form?. *Fluid Phase Equilibria*, **2009**, 282, 38-50	2.5	12
53	Activity Coefficients at Infinite Dilution of Organic Compounds in 1-Butyl-3-methylimidazolium Tetrafluoroborate Using Inverse Gas Chromatography. *Journal of Chemical & Engineering Data*, **2009**, 54, 90-101	2.8	76
52	Ethanol-Hydrocarbon Blend Vapor Prediction **2009**,		1
51	Addition of the Hydrogen Sulfide Group to the PPR78 Model (Predictive 1978, Peng Robinson Equation of State with Temperature Dependent kij Calculated through a Group Contribution Method). *Industrial & Engineering Chemistry Research*, **2008**, 47, 10041-10052	3.9	66
50	Activity coefficients at infinite dilution of organic compounds in 1-(meth)acryloyloxyalkyl-3-methylimidazolium bromide using inverse gas chromatography. *Journal of Physical Chemistry B*, **2008**, 112, 3773-85	3.4	76
49	Use of the PPR78 Model To Predict New Equilibrium Data of Binary Systems Involving Hydrocarbons and Nitrogen. Comparison with Other GCEOS. *Industrial & Engineering Chemistry Research*, **2008**, 47, 7483-7489	3.9	59
48	Comments on "Solubility of CO2, N2, and CO2 + N2 Gas Mixtures in Isooctane" (Zhang, J. S.; Lee, S.; Lee, J. W. J. Chem. Eng. Data2008, 53, 1321−1324). *Journal of Chemical & Engineering Data*, **2008**, 53, 2001-2001	2.8	2
47	Addition of the Nitrogen Group to the PPR78 Model (Predictive 1978, Peng Robinson EOS with Temperature-Dependent kij Calculated through a Group Contribution Method). *Industrial & Engineering Chemistry Research*, **2008**, 47, 2033-2048	3.9	71
46	High-pressure phase behaviour of the binary system {CO2 + cis-decalin} from (292.75 to 373.75) K. *Journal of Chemical Thermodynamics*, **2008**, 40, 1358-1363	2.9	14
45	Addition of the sulfhydryl group (SH) to the PPR78 model (predictive 1978, Peng Robinson EOS with temperature dependent kij calculated through a group contribution method). *Journal of Chemical Thermodynamics*, **2008**, 40, 1331-1341	2.9	55
44	Phase equilibria measurements of CO2+methyl cyclopentane and CO2+isopropyl cyclohexane binary mixtures at elevated pressures. *Journal of Supercritical Fluids*, **2008**, 44, 155-163	4.2	35
43	Predicting the phase equilibria of CO2 + hydrocarbon systems with the PPR78 model (PR EOS and kij calculated through a group contribution method). *Journal of Supercritical Fluids*, **2008**, 45, 1-26	4.2	173
42	Bubble and Dew Points of Carbon Dioxide + a Five-Component Synthetic Mixture: Experimental Data and Modeling with the PPR78 Model. *Journal of Chemical & Engineering Data*, **2007**, 52, 1851-1855	2.8	23
41	Measurement of activity coefficients at infinite dilution in 1-hexadecyl-3-methylimidazolium tetrafluoroborate ionic liquid. *Journal of Chemical Thermodynamics*, **2007**, 39, 1144-1150	2.9	88
40	Thermodynamic Properties of Mixtures Containing Ionic Liquids: Activity Coefficients at Infinite Dilution of Organic Compounds in 1-Propyl Boronic Acid-3-Alkylimidazolium Bromide and 1-Propenyl-3-alkylimidazolium Bromide Using Inverse Gas Chromatography. *Journal of Chemical & Engineering Data*, **2006**, 51, 1274-1279	2.8	57

39	Possible Existence of a Negative (Positive) Homogeneous Azeotrope When the Binary Mixture Exhibits Positive (Negative) Deviations from Ideal Solution Behavior (That is, When gE is Positive (Negative)). *Industrial & Engineering Chemistry Research*, **2006**, 45, 8217-8222	3.9	10
38	Extension of the PPR78 model (Predictive 1978, Peng□Robinson EOS with temperature dependent kij calculated through a group contribution method) to systems containing naphtenic compounds. *Fluid Phase Equilibria*, **2006**, 243, 9-28	2.5	84
37	Accurate measurements of thermodynamic properties of solutes in ionic liquids using inverse gas chromatography. *Journal of Chromatography A*, **2006**, 1102, 256-67	4.5	124
36	Application of Inverse Gas Chromatography and Regular Solution Theory for Characterization of Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2005**, 44, 4120-4127	3.9	106
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