Gloria Costa

List of Publications by Year in descending order

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Version: 2024-02-01

36 papers	365 citations	759233 12 h-index	888059 17 g-index
37 all docs	37 docs citations	37 times ranked	391 citing authors

#	Article	IF	Citations
1	An improved method for calculating CO2 minimum miscibility pressure based on solubility parameter. Journal of Petroleum Science and Engineering, 2012, 98-99, 144-155.	4.2	24
2	Supercritical solvent impregnation/deposition of spilanthol-enriched extracts into a commercial collagen/cellulose-based wound dressing. Journal of Supercritical Fluids, 2018, 133, 503-511.	3.2	24
3	Solid pure component property effects on modeling upper crossover pressure for supercritical fluid process synthesis: A case study for the separation of Annatto pigments using SC-CO2. Journal of Supercritical Fluids, 2009, 49, 1-8.	3.2	22
4	Evaluation and Improvement of Screening Methods Applied to Asphaltene Precipitation. Energy & Fuels, 2017, 31, 3380-3391.	5.1	22
5	Modeling high-pressure vaporâ€“liquid equilibrium of limonene, linalool and carbon dioxide systems. Journal of Supercritical Fluids, 1999, 16, 107-117.	3.2	21
6	A comparative study of CPA and PC-SAFT equations of state to calculate the asphaltene onset pressure and phase envelope. Fluid Phase Equilibria, 2019, 494, 74-92.	2.5	21
7	A new approach to select solvents and operating conditions for supercritical antisolvent precipitation processes by using solubility parameter and group contribution methods. Journal of Supercritical Fluids, 2013, 81, 128-146.	3.2	20
8	Dynamic modeling and simulation of a water supply system with applications for improving energy efficiency. Energy Efficiency, 2015, 8, 417-432.	2.8	16
9	Modeling of solidâ€“liquid equilibria for polyethylene and polypropylene solutions with equations of state. Journal of Applied Polymer Science, 2011, 121, 1832-1849.	2.6	14
10	Modeling of the Asphaltene Onset Pressure from Few Experimental Data: A Comparative Evaluation of the Hirschberg Method and the Cubic-Plus-Association Equation of State. Energy & Fuels, 2019, 33, 3733-3742.	5.1	14
11	New method to detect asphaltene precipitation onset induced by CO2 injection. Fluid Phase Equilibria, 2014, 362, 355-364.	2.5	13
12	Prediction of vaporâ€“liquid and liquidâ€“liquid equilibria for polymer systems: Comparison of activity coefficient models. Fluid Phase Equilibria, 2008, 267, 140-149.	2.5	12
13	Simulation of Flash Separation in Polyethylene Industrial Processing: Comparison of SRK and SL Equations of State. Industrial & Engineering Chemistry Research, 2009, 48, 8613-8628.	3.7	12
14	Modeling and simulation of asphaltene precipitation by normal pressure depletion. Journal of Petroleum Science and Engineering, 2013, 109, 123-132.	4.2	11
15	Development of Tailor-Made Superabsorbent Polymers: Review of Key Aspects from Raw Material to Kinetic Model. Journal of Polymers and the Environment, 2019, 27, 1861-1877.	5.0	11
16	Modeling high pressure vaporâ€“liquid equilibrium of ternary systems containing supercritical CO2 and mixed organic solvents using Pengâ€“Robinson equation of state. Journal of Supercritical Fluids, 2014, 93, 82-90.	3.2	10
17	Improvement of the Expanded Fluid Viscosity Model for Crude Oils: Effects of the Plus-Fraction Characterization Method and Density. Energy & Fuels, 2018, 32, 1624-1633.	5.1	10
18	Low Salinity Water Injection in a Clastic Reservoir in Northeast Brazil: An Experimental Case Study. , 2018, , .		10

#	Article	IF	Citations
19	Calculation of Pressureâˆ'Temperature Diagrams and Distance for Phase Transition in Polyethylene Solutions. Industrial & Engineering Chemistry Research, 2010, 49, 12242-12253.	3.7	9
20	Effect of scCO2 sorption capacity on the total amount of borage oil loaded by scCO2 impregnation/deposition into a polyurethane-based wound dressing. Journal of Supercritical Fluids, 2016, 115, 1-9.	3.2	9
21	Assessment of the liquid mixture density effect on the prediction of supercritical carbon dioxide volume expansion of organic solvents by Peng-Robinson equation of state. Fluid Phase Equilibria, 2016, 425, 196-205.	2.5	8
22	Solubility of l-Dopa in supercritical carbon dioxide: prediction using a cubic equation of state. Journal of Supercritical Fluids, 2005, 34, 231-236.	3.2	7
23	A Survey of Equations of State for Polymers. , 0, , .		7
24	A novel method to predict the risk of asphaltene precipitation due to CO2 displacement in oil reservoirs. Journal of Petroleum Science and Engineering, 2019, 176, 1008-1017.	4.2	7
25	Modeling non-electrolyte hydrogel swelling using the adjusted parameters from liquid-liquid equilibrium data of the linear polymer. Fluid Phase Equilibria, 2017, 435, 1-14.	2.5	6
26	Measurement and modelling of binary (solid+liquid+vapour) equilibria involving lipids and CO2. Journal of Chemical Thermodynamics, 2014, 69, 172-178.	2.0	4
27	High-Pressure Modeling of Asphaltene Precipitation during Oil Depletion Based on the Solid Model. Energy & Fuels, 2017, 31, 7911-7918.	5.1	3
28	Modeling the Saturation Pressure of Systems Containing Crude Oils and CO2 Using the SRK Equation of State. Journal of Chemical & Engineering Data, 2019, 64, 2134-2142.	1.9	3
29	Computational Aspects for Optimization of High Pressure Phase Equilibrium for Polymer Industrial Systems. Computer Aided Chemical Engineering, 2009, 27, 405-410.	0.5	2
30	CO₂â€oil saturation pressure and onset asphaltene precipitation. Canadian Journal of Chemical Engineering, 2015, 93, 1697-1704.	1.7	2
31	Measurement and modelling of urea solubility in aqueous propane-1,2,3-triol and prop-2-enoic acid solutions. Journal of Chemical Thermodynamics, 2016, 103, 142-151.	2.0	2
32	Jouleâ€"Thomson Effect in Mixtures Containing Polymers and Copolymers. Industrial & Engineering Chemistry Research, 2016, 55, 1117-1125.	3.7	2
33	Evaluation of Nonelectrolyte Hydrogel Swelling and Its Pressure Effects with Simple Equation of State and Mechanical Models Using Liquidâ€"Liquid Equilibrium Data. Industrial & Engineering Chemistry Research, 2020, 59, 21969-21981.	3.7	2
34	Phase-dependent binary interaction parameters in industrial low-density polyethylene separators. Journal of Applied Polymer Science, 2013, 130, 2106-2117.	2.6	1
35	Prediction of Thermodynamic Properties of CO2 by Cubic and Multiparameter Equations of State for Fluid Dynamics Applications. Journal of Chemical & Engineering Data, 2019, 64, 1746-1759.	1.9	1
36	Calculation of Bubble Pressure for Crude Oils: The Effect of q-Weibull Distribution for Splitting the Heavy Fraction. Journal of Chemical & Engineering Data, 2019, 64, 1885-1897.	1.9	1