Pedro Arce

List of Publications by Year
in descending order

31 papers	319 citations	932766 10 h-index	940134 16 g-index
31 all docs	31 docs citations	31 times ranked	280 citing authors

#	Article	IF	Citations
1	Aqueous viscosity of carbohydrates: Experimental data, activity coefficient modeling, and prediction with artificial neural network-molecular descriptors. Journal of Molecular Liquids, 2021, 322, 114932.	2.3	3
2	Experimental data and thermodynamics modeling (PC-SAFT EoS) of the {CO2 + chloroform + PHBV} system at high pressures. Journal of Supercritical Fluids, 2021, 170, 105140.	1.6	2
3	Liquidâ€“Liquid Equilibrium Measurement and Thermodynamic Modeling of the {Sterculia striata Biodiesel + Glycerol + Ethanol} System. Journal of Chemical & Engineering Data, 2021, 66, 3293-3299.	1.0	3
4	Sequestration of light hydrocarbons in Ionic Liquids at high-pressures: Consistency and thermodynamic modeling. Fluid Phase Equilibria, 2021, 546, 113119.	1.4	5
5	Xylitol solubility in DMFÂ+ ethylene glycol or 1,2-propylene glycol: Measurement and modeling with PC-SAFT and CPA equations of state and UNIFAC activity coefficient model. Fluid Phase Equilibria, 2020, 519, 112651.	1.4	4
6	Thermodynamic Behavior of the Phase Equilibrium of Ethyl Acetate + Ethanol + Water Systems at Atmospheric Pressure: Experiment and Modeling. Journal of Chemical & Engineering Data, 2020, 65, 1402-1410.	1.0	10
7	Solubility and Pseudo Polymorphic Behavior of Nicotinic Acid in Alcoholic Solutions: Experimental Data and Phase Equilibrium Modeling. Industrial & Engineering Chemistry Research, 2020, 59, 1319-1326.	1.8	8
8	Experimental data and prediction of the physical and chemical properties of biodiesel. Chemical Engineering Communications, 2019, 206, 1273-1285.	1.5	9
9	Phase Equilibrium Involving Xylose, Water, and Ethylene Glycol or 1,2-Propylene Glycol at Different Temperatures. Journal of Chemical & Engineering Data, 2019, 64, 2163-2169.	1.0	2
10	Experimental Data and Thermodynamics Modeling (PC-SAFT EoS) of the {CO₂ + Acetone + Pluronic F-127} System at High Pressures. Journal of Chemical & Engineering Data, 2019, 64, 2186-2192.	1.0	11
11	Experimental measurements and simulation of the fouling phenomena of natural proteins. International Journal of Heat and Mass Transfer, 2019, 129, 1075-1085.	2.5	4
12	Thermodynamic Modeling and Simulation of Biodiesel Systems at Supercritical Conditions. Industrial & Engineering Chemistry Research, 2018, 57, 751-767.	1.8	16
13	Experimental study and modeling of citric acid solubility in alcohol mixtures. Journal of Food Engineering, 2018, 237, 96-102.	2.7	14
14	Phase Equilibrium Involving Xylitol, Water, and Ethylene Glycol or 1,2-Propylene Glycol: Experimental Data, Activity Coefficient Modeling, and Prediction with Artificial Neural Network-Molecular Descriptors. Industrial & Engineering Chemistry Research, 2018, 57, 10675-10683.	1.8	8
15	Experimental study and thermodynamic modeling of xylitol and sorbitol solubility in mixtures of methanol and ethanol at different temperatures. Journal of Molecular Liquids, 2017, 248, 509-514.	2.3	10
16	Modeling the melting temperature depression of ionic liquids caused by supercritical carbon dioxide. Fluid Phase Equilibria, 2013, 341, 1-6.	1.4	3
17	Melting temperature depression caused by high pressure gases. Effect of the gas on organic substances and on ionic liquids. Journal of Supercritical Fluids, 2013, 82, 151-157.	1.6	4
18	Modeling of high-pressure vaporâ€“liquid equilibrium in ionic liquids + gas systems using the PRSV equation of state. Fluid Phase Equilibria, 2010, 295, 9-16.	1.4	34

#	Article	IF	Citations
19	Thermodynamic modeling of liquidâ€“fluid phase equilibrium in supercritical ethylene+copolymer+co-solvent systems using the PC-SAFT equation of state. Journal of Supercritical Fluids, 2010, 52, 18-29.	1.6	17
20	Modeling the phase behavior in binary mixtures involving blowing agents and thermoplastic resins. Polymer Engineering and Science, 2010, 50, 365-372.	1.5	1
21	Modeling of thermodynamic behavior of PVT properties and cloud point temperatures of polymer blends and polymer blend + carbon dioxide systems using non-cubic equations of state. Fluid Phase Equilibria, 2009, 286, 17-27.	1.4	13
22	Computation and modeling of tricritical phenomena in ternary and quaternary mixtures using the Perturbed Chainâ€”Statistical Associating Fluid Theory equation of state. Journal of Supercritical Fluids, 2009, 49, 135-142.	1.6	5
23	Fluid phase behavior modeling of CO₂ + molten polymer systems using cubic and theoretically based equations of state. Polymer Engineering and Science, 2008, 48, 1157-1167.	1.5	6
24	Computation and modeling of critical phenomena with the perturbed chain-statistical associating fluid theory equation of state. Journal of Supercritical Fluids, 2008, 43, 408-420.	1.6	10
25	Modeling of phase equilibrium of binary mixtures composed by polystyrene and chlorofluorocarbons, hydrochlorofluorocarbons, hydrofluorocarbons and supercritical fluids using cubic and non-cubic equations of state. Journal of Supercritical Fluids, 2008, 45, 134-145.	1.6	17
26	Modeling of critical lines and regions for binary and ternary mixtures using non-cubic and cubic equations of state. Journal of Supercritical Fluids, 2007, 42, 1-26.	1.6	26
27	Modeling the thermodynamic behavior of poly(lactide-co-glycolide)+supercritical fluid mixtures with equations of state. Fluid Phase Equilibria, 2006, 244, 16-25.	1.4	19
28	Vaporâ€“liquid equilibrium of copolymer+solvent mixtures: Thermodynamic modeling by two theoretical equations of state. Fluid Phase Equilibria, 2006, 246, 52-63.	1.4	8
29	Phase behavior of polypropylene + n-pentane and polypropylene + n-pentane + carbon dioxide: modeling with cubic and non-cubic equations of state. Journal of Supercritical Fluids, 2005, 34, 177-182.	1.6	14
30	Modeling the phase behavior of commercial biodegradable polymers and copolymer in supercritical fluids. Fluid Phase Equilibria, 2005, 238, 242-253.	1.4	26
31	Vapourâ€”liquid equilibrium of H₂Sâ€Hydrocarbon mixtures using a generalized cubic equation of state. Canadian Journal of Chemical Engineering, 1999, 77, 1239-1243.	0.9	7