Manuela Artal

List of Publications by Year
in descending order

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57	1,067	566801	500791
papers	citations	15 h-index	28 g-index

58	58	58	840
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermophysical characterization of the deep eutectic solvent choline chloride:ethylene glycol and one of its mixtures with water. Fluid Phase Equilibria, 2019, 492, 1-9.	1.4	93
2	The NADES glyceline as a potential Green Solvent: A comprehensive study of its thermophysical properties and effect of water inclusion. Journal of Chemical Thermodynamics, 2019, 128, 164-172.	1.0	87
3	NMR study of choline chloride-based deep eutectic solvents. Journal of Molecular Liquids, 2019, 290, 111236.	2.3	87
4	Experimental setup to measure critical properties of pure and binary mixtures and their densities at different pressures and temperatures. Journal of Supercritical Fluids, 2008, 44, 123-138.	1.6	48
5	Influence of Methane in CO₂ Transport and Storage for CCS Technology. Environmental Science & Technology, 2012, 46, 13016-13023.	4.6	43
6	Experimental determination of the critical loci for {n-C6H14 or CO2+ alkan-1-ol} mixtures. Evaluation of their critical and subcritical behavior using PC-SAFT EoS. Journal of Supercritical Fluids, 2012, 71, 26-44.	1.6	43
7	Hydrophobic eutectic solvents: Thermophysical study and application in removal of pharmaceutical products from water. Chemical Engineering Journal, 2021, 411, 128472.	6.6	29
8	Excess enthalpies of binary mixtures containing Î±,Ï‰-dibromoalkanes. Measurement and analysis in terms of group contributions (disquac). Fluid Phase Equilibria, 1991, 70, 267-274.	1.4	26
9	Excess enthalpies and molecular interactions in solutions of 1-fluoroalkanes in alkanes, benzene or tetrachloromethane. A group contribution (DISQUAC) study. Journal of Solution Chemistry, 1991, 20, 3-16.	0.6	26
10	Excess enthalpies of (a bromochloroalkane +ann-alkane or cyclohexane) at the temperature 298.15 K. Journal of Chemical Thermodynamics, 1995, 27, 191-196.	1.0	25
11	Isothermal Vaporâ"Liquid Equilibria of 1,3-Dioxolane or 1,4-Dioxane + Hexane or + Cyclohexane or + Ethanol Mixtures atT= 308.15 K. Journal of Chemical & Engineering Data, 1999, 44, 193-196.	1.0	24
12	Characterization of xylitol or citric acid:choline chloride:water mixtures: Structure, thermophysical properties, and quercetin solubility. Food Chemistry, 2020, 306, 125610.	4.2	24
13	Accurate Values of Some Thermodynamic Properties for Carbon Dioxide, Ethane, Propane, and Some Binary Mixtures. Journal of Physical Chemistry B, 2011, 115, 8216-8230.	1.2	23
14	Calorimetric study of nitrile-carbonyl group interactions. Comparison with DISQUAC predictions. Fluid Phase Equilibria, 1994, 98, 149-162.	1.4	21
15	Excess enthalpies of .alpha.,.omega.-dibromoalkane + n-hexane mixtures at 298.15 K and isothermal vapor-liquid equilibrium of 1,3-dibromopropane + n-nonane at 348.15 K. Journal of Chemical & Engineering Data, 1991, 36, 428-430.	1.0	20
16	Excess enthalpies of (N,N-dimethylformamide or N,N-dimethylacetamide + hexane or benzene or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	1.0	20
17	Dew points of binary carbon dioxide + water and ternary carbon dioxide + water + methanol mixtures Measurement and modelling. Fluid Phase Equilibria, 2004, 216, 85-93.	1.4	20
18	Discussion of the Influence of CO and CH₄ in CO₂ Transport, Injection, and Storage for CCS Technology. Environmental Science & Technology, 2014, 48, 10984-10992.	4.6	18

#	Article	IF	Citations
19	Influence of SO₂ on CO₂ Transport by Pipeline for Carbon Capture and Storage Technology: Evaluation of CO₂/SO₂ Cocapture. Energy & Fuels, 2018, 32, 8641-8657.	2.5	18
20	Critical Properties and High-Pressure Volumetric Behavior of the Carbon Dioxide + Propane System at T = 308.15 K. Krichevskii Function and Related Thermodynamic Properties. Journal of Physical Chemistry B, 2009, 113, 7243-7256.	1.2	17
21	L-menthol-based eutectic solvents: Characterization and application in the removal of drugs from water. Journal of Molecular Liquids, 2022, 352, 118754.	2.3	17
22	Excess volumes of (bromochloromethane or 1-bromo-2-chloroethane + heptane or cyclohexane or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1995, 27, 475-480.	1.0	16
23	Temperature and pressure dependence of the volumetric properties of binary liquid mixtures containing 1-propanol and dihaloalkanes. Physics and Chemistry of Liquids, 2005, 43, 523-533.	0.4	16
24	Structure and properties of two glucose-based deep eutectic systems. Food Chemistry, 2021, 336, 127717.	4.2	16
25	Excess volumes of (1-chlorobutane or 1,2-dichloroethane or tetrachloromethane or) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 50	1.0	15
26	Excess enthalpies of (a bromochloroalkane + tetrachloromethane or benzene) at the temperature	1.0	15
27	Isothermal Vapor-Liquid Equilibria and Excess Volumes of Propanenitrile or Butanenitrile + Heptane or + Benzene Mixtures. Journal of Chemical & Engineering Data, 1995, 40, 1154-1157.	1.0	15
28	Influence of methane and carbon monoxide in the volumetric behaviour of the anthropogenic CO2: Experimental data and modelling in the critical region. International Journal of Greenhouse Gas Control, 2013, 18, 264-276.	2.3	15
29	Excess enthalpies of dibromoalkane + benzene binary mixtures at 298.15 K. Journal of Chemical & Engineering Data, 1993, 38, 587-588.	1.0	14
30	Influence of SO2 on CO2 storage for CCS technology: Evaluation of CO2/SO2 co-capture. Applied Energy, 2017, 206, 172-180.	5.1	14
31	Solubilities of 1-Nonanol, 1-Undecanol, 1-Tridecanol, and 1-Pentadecanol in Supercritical Carbon Dioxide at$T$= 323.15 K. Journal of Chemical & Engineering Data, 1998, 43, 983-985.	1.0	13
32	Volumetric Behavior of the {CO2 (1) + C2H6 (2)} System in the Subcritical (T = 293.15 K), Critical, and Supercritical (T = 308.15 K) Regions. Journal of Physical Chemistry B, 2010, 114, 5447-5469.	1.2	13
33	Thermophysical study of 2-acetylthiophene: Experimental and modelled results. Fluid Phase Equilibria, 2017, 433, 126-134.	1.4	12
34	Excess enthalpies and excess volumes of (1-bromobutane or 1-iodobutane + 1-chloropropane or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1 Journal of Chemical Thermodynamics, 1994, 26, 609-615.	1.0	11
35	Isothermal vaporâ€“liquid equilibria of bromochloromethane or 1-bromo-2-chloroethane+tetrachloromethane or benzene. Experimental measurements and analysis in terms of group contributions. Fluid Phase Equilibria, 1999, 154, 223-239.	1.4	11
36	(Vapour+liquid) equilibria for the binary mixtures (1-propanol+dibromomethane,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (or+bromo Chemical Thermodynamics, 2005, 37, 7-12.	1.0	11

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37	High-pressure speed of sound in pure CO 2 and in CO 2 with SO 2 as an impurity using methanol as a doping agent. International Journal of Greenhouse Gas Control, 2016, 54, 737-751.	2.3	11
38	Excess enthalpies and excess volumes of (iodomethane + 1-fluoropentane or 1-chloropropane or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 temperature 298.15 K. Journal of Chemical Thermodynamics, 1994, 26, 703-708.	1.0	10
39	Thermophysical properties of two binary aqueous mixtures containing a pyridinium-based ionic liquid. Journal of Chemical Thermodynamics, 2016, 99, 116-123.	1.0	10
40	Temperature and pressure dependence of the volumetric properties of binary mixtures containing polyhaloalkanes. Canadian Journal of Chemistry, 1999, 77, 2046-2052.	0.6	9
41	Experimental and modeled volumetric behavior of linear and branched ethers. Fluid Phase Equilibria, 2016, 417, 7-18.	1.4	9
42	Isothermal Vaporâ"Liquid Equilibria of Ethyl Acetate + Dibromomethane or + Bromochloromethane or + 1,2-Dichloroethane or +1-Bromo-2-chloroethane atT= 313.15 K. Journal of Chemical & Engineering Data, 2004, 49, 1574-1576.	1.0	8
43	Molar excess enthalpies of n-monohaloalkanes + n-monohaloalkanes mixtures. Estimation of DISQUAC interchange energy parameters. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1996, 100, 1752-1758.	0.9	7
44	Thermophysical properties of oxygenated thiophene derivatives: Experimental data and modelling. Journal of Chemical Thermodynamics, 2017, 113, 330-339.	1.0	7
45	Volumetric and acoustic behaviour of myo-inositol in aqueous Natural Deep Eutectic Solvent solutions. Journal of Molecular Liquids, 2018, 258, 106-113.	2.3	7
46	Isothermal vapor-liquid equilibria of bromochloroalkanes with heptane or cyclohexane: Measurement and analysis in terms of group contributions. Journal of Solution Chemistry, 1997, 26, 355-368.	0.6	6
47	Excess enthalpies and isothermal (vapour+liquid) equilibria of (1-methyl-2-pyrrolidone+1-chloroalkane) Tj ETQq1 1 0.784314 rgBT /Over	1.0	6
48	Thermophysical Characterization of Furfuryl Esters: Experimental and Modeling. Energy & Fuels, 2017, 31, 4143-4154.	2.5	6
49	Analysis of {Î±,Ï‰-Dichloroalkane or Î±,Ï‰-Dibromoalkane] + Benzene and Î±,Ï‰-Dichloroalkane + Tetrachloromethane} Mixtures in Terms of Group Contributions. Physics and Chemistry of Liquids, 2000, 38, 537-551.	0.4	5
50	Excess Volumes of Ternary Mixtures 2,2,4-Trimethylpentane + Diisopropyl Ether or Methyl tert-Butyl Ether + Methanol, Ethanol, or 1-Propanol at 298.15 K. Journal of Chemical & Engineering Data, 2012, 57, 1139-1145.	1.0	5
51	Volumetric Behavior and Vaporâ€"Liquid Equilibrium of Dimethyl Disulfideâ€‰+â€‰n-Alkanol Binary Mixtures. Journal of Solution Chemistry, 2019, 48, 1-14.	0.6	5
52	Representation for binary mixtures of n-alcohols + sub and supercritical CO2 by a group-contribution method. Fluid Phase Equilibria, 2001, 178, 119-130.	1.4	4
53	Vapourâ€"liquid equilibrium at T=308.15K for binary systems: Dibromomethane+n-heptane, bromotrichloromethane+n-heptane, bromotrichloromethane+dibromomethane, bromotrichloromethane+bromochloromethane and dibromomethane+bromochloromethane. Experimental data and modelling. Fluid Phase Equilibria, 2015, 395, 1-8.	1.4	4
54	Thermodynamic properties of a CO2 â€" rich mixture (CO2+CH3OH) in conditions of interest for carbon dioxide capture and storage technology and other applications. Journal of Chemical Thermodynamics, 2016, 98, 272-281.	1.0	4

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55	Viscometric study of myo-inositol in aqueous deep eutectic solvent solutions. Fluid Phase Equilibria, 2018, 473, 236-244.	1.4	4
56	Thermophysical characterization of choline chloride: Resorcinol and its mixtures with water. Fluid Phase Equilibria, 2022, 557, 113435.	1.4	3
57	The hydration behavior of d-glucose in the choline chloride: Urea:water mixtures. Journal of Molecular Liquids, 2020, 314, 113649.	2.3	1