

Juan Ortega

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69
papers

1,513
citations

26
h-index

35
g-index

73
ext. papers

1,681
ext. citations

3.1
avg, IF

4.48
L-index

#	Paper	IF	Citations
69	Evaluation of VLEs for Binaries of Five Compounds Involved in the Production Processes of Cyclohexanone. <i>ChemEngineering</i> , 2022 , 6, 42	2.6	0
68	Suitable Experimentation-Modeling Binomial to Design the Extraction of an Alkanol with Water in Aqueous Ternary Solutions of Ester-Alkanol. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 13938-13949	3.9	
67	Methodology Based on the Theory of Information to Describe the Representation Ability of the DMC + Alkane Behavior. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 1036-1054	3.9	2
66	New Advances in the Modeling and Verification of Experimental Information for Ester-Alkane Solutions: Application to a Batch-Distillation Case. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8346-8360	3.9	1
65	Development of a method to model the mixing energy of solutions using COSMO molecular descriptors linked with a semi-empirical model using a combined ANN-QSPR methodology. <i>Chemical Engineering Science</i> , 2020 , 224, 115764	4.4	4
64	Further Advance to a Practical Methodology To Assess Vapor-Liquid Equilibrium Data: Influence on Binaries Rectification. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 3933-3944	2.8	0
63	Measurement and Prediction of Excess Properties of Binary Mixtures Methyl Decanoate + an Even-Numbered n-Alkane (C ₆ -C ₁₆) at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 2816-2825	2.8	2
62	Extension of the validation method for vapor-liquid equilibrium data to systems with nonvolatile components. <i>AIChE Journal</i> , 2019 , 65, e16628	3.6	1
61	The Parametrization Problem in the Modeling of the Thermodynamic Behavior of Solutions. An Approach Based on Information Theory Fundamentals. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 12876-12893	3.9	4
60	Design of the Distillation-Extraction Tandem to Separate Ethyl Propanoate from Heptane Solutions Using Pyridinium-Derived Organic Salts as Entrainers. Its Use as a Potential Bioactive Compound. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 973-983	3.9	3
59	Strategy for the Management of Thermodynamic Data with Application to Practical Cases of Systems Formed by Esters and Alkanes through Experimental Information, Checking-Modeling, and Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 3410-3429	3.9	6
58	Design and Characterization of Sugar-Based Deep Eutectic Solvents Using Conductor-like Screening Model for Real Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 10724-10734	8.3	65
57	Indirect assessment of the fusion properties of choline chloride from solid-liquid equilibria data. <i>Fluid Phase Equilibria</i> , 2017 , 448, 9-14	2.5	52
56	Characterization and Modeling of the Liquid Phase of Deep Eutectic Solvents Based on Fatty Acids/Alcohols and Choline Chloride. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 12192-12202	3.9	40
55	A rigorous method to evaluate the consistency of experimental data in phase equilibria. Application to VLE and VLLE. <i>AIChE Journal</i> , 2017 , 63, 5125-5148	3.6	12
54	Molecular interactions in methanoate/alkanol solutions. Computation of mixing properties and characterization by FTIR/ATR spectroscopy. <i>Journal of Molecular Liquids</i> , 2017 , 248, 725-737	6	
53	New computational tool to evaluate experimental VLE and VLLE data of multicomponent systems. <i>Computers and Chemical Engineering</i> , 2017 , 106, 437-463	4	5

52	A fresh look at the thermodynamic consistency of vapour-liquid equilibria data. <i>Journal of Chemical Thermodynamics</i> , 2017 , 105, 385-395	2.9	62
51	Contributions to the modeling and behavior of solutions containing ethanoates and hydrocarbons. New experimental data for binaries of butyl ester with alkanes (C5 to C10). <i>Fluid Phase Equilibria</i> , 2016 , 412, 79-93	2.5	7
50	A Study on Alkane + Ester + Ester Systems. Physicochemical Behavior of Binaries and Ternaries of Octane or Iso-octane with Methyl Esters (Ethanoate, Butanoate, Pentanoate). <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 1177-1191	2.8	5
49	Solutions of alkyl methanoates and alkanes: Simultaneous modeling of phase equilibria and mixing properties. Estimation of behavior by UNIFAC with recalculation of parameters. <i>Fluid Phase Equilibria</i> , 2015 , 402, 38-49	2.5	8
48	Mixing thermodynamic properties of ester-containing solutions: A study on the ternary (methyl alkanoate (pentanoate and methanoate) + methanol) and the corresponding binaries. New contributions to the (ester + ester) interactions. <i>Journal of Chemical Thermodynamics</i> , 2015 , 86, 80-89	2.9	3
47	Improvements in the Experimentation and the Representation of Thermodynamic Properties (iso-p VLE and yE) of Alkyl Propanoate + Alkane Binaries. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 125-142	2.8	20
46	Experimentation and thermodynamic representations of binaries containing compounds of low boiling points: Pentane and alkyl methanoates. <i>Fluid Phase Equilibria</i> , 2014 , 363, 167-179	2.5	10
45	Multiproperty Correlation of Experimental Data of the Binaries Propyl Ethanoate + Alkanes (Pentane to Decane). New Experimental Information for Vapor-Liquid Equilibrium and Mixing Properties. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 686-706	2.8	12
44	Multiproperty modeling for a set of binary systems. Evaluation of a model to correlate simultaneously several mixing properties of methyl ethanoate + alkanes and new experimental data. <i>Fluid Phase Equilibria</i> , 2013 , 341, 105-123	2.5	12
43	Binary Liquid-Liquid Equilibria for Systems of Mono- or Disubstituted Haloalkanes (Cl, Br) and Pyridinium-Based Ionic Liquids. Advances in the Experimentation and Interpretation of Results. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 11758-11766	3.9	5
42	Measurements and Correlations of the Isobaric Vapor-Liquid Equilibria of Binary Mixtures and Excess Properties for Mixtures Containing an Alkyl (Methyl, Ethyl) Butanoate with an Alkane (Heptane, Nonane) at 101.3 kPa. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3210-3224	2.8	22
41	Liquid-Liquid Equilibria in Binary Solutions Formed by [Pyridinium-Derived][F4B] Ionic Liquids and Alkanols: New Experimental Data and Validation of a Multiparametric Model for Correlating LLE Data. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 12259-12270	3.9	19
40	Thermodynamic behavior of the binaries 1-butylpyridinium tetrafluoroborate with water and alkanols: their interpretation using ¹ H NMR spectroscopy and quantum-chemistry calculations. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 8763-74	3.4	31
39	Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10). <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5519-5533	2.8	30
38	Advances in the Correlation of Thermodynamic Properties of Binary Systems Applied to Methanol Mixtures with Butyl Esters. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 9548-9558	3.9	20
37	New Parametric Model to Correlate the Gibbs Excess Function and Other Thermodynamic Properties of Multicomponent Systems. Application to Binary Systems. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 406-421	3.9	25
36	Excess properties and isobaric vapor-liquid equilibria for four binary systems of alkyl (methyl to butyl) methanoates with decane. <i>Fluid Phase Equilibria</i> , 2010 , 291, 18-31	2.5	11
35	Experimental Thermodynamic Properties of 1-Butyl-2-methylpyridinium Tetrafluoroborate [b2mpy][BF4] with Water and with Alkan-1-ol and Their Interpretation with the COSMO-RS Methodology. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 2678-2690	3.9	63

34	Description of Thermodynamic Behavior of the Systems Formed by Alkyl Ethanoates with 1-Chloroalkanes Using the COSMO-RS Methodology Contributing with New Experimental Information. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 3253-3264	3.9	17
33	Thermodynamic Properties of 1-Butyl-3-methylpyridinium Tetrafluoroborate and Its Mixtures with Water and Alkanols. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2269-2276	2.8	66
32	Isobaric Vapor-Liquid Equilibrium Data and Excess Properties of Binary Systems Comprised of Alkyl Methanoates + Hexane. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 215-225	2.8	25
31	Modeling and Experimental Evaluation of Thermodynamic Properties for Binary Mixtures of Dialkylcarbonate and Alkanes Using a Parametric Model. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 7353-7366	3.9	9
30	Correlation and Prediction of Excess Quantities and Vapor-Liquid Equilibria of Alkyl Esters + tert-Butyl Alcohol: Experimental Data for Propyl Esters + tert-Butyl Alcohol. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 730-742	2.8	13
29	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 444-454	2.8	30
28	Measurement and correlation of isobaric vapour-liquid equilibrium data and excess properties of ethyl methanoate with alkanes (hexane to decane). <i>Fluid Phase Equilibria</i> , 2004 , 215, 175-186	2.5	26
27	Densities and Excess Molar Properties of Dimethyl Carbonate with Alkanes (C6 to C10) and VLE of Dimethyl Carbonate with Alkanes (C9 to C10) at 101.3 kPa. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 86-93	2.8	28
26	Isobaric Vapor-Liquid Equilibria and Excess Properties for the Binary Systems of Methyl Esters + Heptane. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 1183-1190	2.8	48
25	A New Correlation Method for Vapor-Liquid Equilibria and Excess Enthalpies for Nonideal Solutions Using a Genetic Algorithm. Application to Ethanol + an n-Alkane Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 4978-4992	3.9	31
24	Vapor-Liquid Equilibria for Binary Systems Composed of a Propyl Ester (Ethanoate, Propanoate, Butanoate) + an n-Alkane (C7, C9). <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 904-912	2.8	33
23	Thermodynamic study on binary mixtures of propyl ethanoate and an alkan-1-ol (C2 to C4). Isobaric vapor-liquid equilibria and excess properties. <i>Fluid Phase Equilibria</i> , 2000 , 170, 87-111	2.5	42
22	Behaviour of binary mixtures of an alkyl methanoate + an n-alkane. New experimental values and an interpretation using the UNIFAC model. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 2967-2974	3.6	15
21	Experimental Determination of Densities and Isobaric Vapor-Liquid Equilibria of Binary Mixtures Formed by a Propyl Alkanoate (Methanoate to Butanoate) + An Alkan-2-ol (C3, C4). <i>Journal of Chemical & Engineering Data</i> , 1999 , 44, 772-783	2.8	30
20	Experimental VLE at 101.32 kPa in binary systems composed of ethyl methanoate and alkan-1-ols or alkan-2-ols and treatment of data using a correlation with temperature-dependent parameters. <i>Fluid Phase Equilibria</i> , 1998 , 146, 351-370	2.5	22
19	Densities and Vapor-Liquid Equilibrium Values for Binary Mixtures Composed of Methanol + an Ethyl Ester at 141.3 kPa with Application of an Extended Correlation Equation for Isobaric VLE Data. <i>Journal of Chemical & Engineering Data</i> , 1998 , 43, 638-645	2.8	38
18	Vapor-Liquid Equilibria and Densities for Ethyl Esters (Ethanoate to Butanoate) and Alkan-2-ol (C3 to C4) at 101.32 kPa. <i>Journal of Chemical & Engineering Data</i> , 1997 , 42, 1090-1100	2.8	34
17	Densities and Isobaric Vapor-Liquid Equilibria for the Mixtures Formed by Four Butyl Esters and 1-Butanol. <i>Journal of Chemical & Engineering Data</i> , 1996 , 41, 53-58	2.8	34

16	Densities and Vapor-Liquid Equilibria in Binary Mixtures Formed by Propyl Methanoate + Ethanol, +Propan-1-ol, and +Butan-1-ol at 160.0 kPa. <i>Journal of Chemical & Engineering Data</i> , 1996 , 41, 859-864	2.8	10
15	Excess Molar Volumes of Binary Mixtures Containing a Methyl Ester (Ethanoate to Tetradecanoate) with Odd n-Alkanes at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 1995 , 40, 283-289	2.8	31
14	Vapor-Liquid Equilibria and Densities for Propyl Butanoate + Normal Alcohols at 101.32 kPa. <i>Journal of Chemical & Engineering Data</i> , 1995 , 40, 699-703	2.8	20
13	Densities and Isobaric Vapor-Liquid Equilibria of Butyl Esters (Methanoate to Butanoate) with Ethanol at 101.32 kPa. <i>Journal of Chemical & Engineering Data</i> , 1995 , 40, 1178-1183	2.8	33
12	Vapor-Liquid Equilibria for Mixtures of Several Butyl Esters (Methanoate to Butanoate) and 1-Propanol at 101.32kPa.. <i>Journal of Chemical Engineering of Japan</i> , 1995 , 28, 765-771	0.8	9
11	Application of the UNIFAC and Nitta-Chao models to describing the behavior of methyl ester/alkane mixtures, and experimental data for (methyl n-alkanoates + n-heptadecane) binary mixtures. <i>Fluid Phase Equilibria</i> , 1994 , 95, 175-214	2.5	30
10	Vapor-Liquid Equilibria of Propyl Propanoate with 1-Alkanols at 101.32 kPa of Pressure. <i>Journal of Chemical & Engineering Data</i> , 1994 , 39, 907-910	2.8	17
9	Vapor-liquid equilibria of methyl or ethyl acetate with 1-chloropentane or 1-chlorohexane at 101.32kPa pressure.. <i>Journal of Chemical Engineering of Japan</i> , 1994 , 27, 351-356	0.8	4
8	Isobaric vapor-liquid equilibria for propyl methanoate+(n-alkanes, C7,C8,C9) or n-alkanols(C2,C3,C4).. <i>Journal of Chemical Engineering of Japan</i> , 1994 , 27, 529-534	0.8	21
7	Revision of interaction parameters for estimating the enthalpies of mixtures of benzyl ethanoate + n-alkanes or 1-chloroalkanes using the UNIFAC model with presentation of new experimental data. <i>Fluid Phase Equilibria</i> , 1993 , 86, 251-273	2.5	15
6	Determination and algebraic representation of volumes of mixing at 298.15 K of methyl n-alkanoates (from ethanoate to n-pentadecanoate) with n-pentadecane. <i>Fluid Phase Equilibria</i> , 1992 , 71, 49-62	2.5	30
5	Excess Enthalpies of Alkyl Formates + (n-Alkanes or 1-Chloroalkanes). Experimental Data and their Analysis in Terms of the UNIFAC Model. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1989 , 93, 730-735		34
4	The excess molar volumes, V_m^E , of mixtures containing ethyl propanoate or ethyl butanoate with 1-chloroalkanes. <i>Journal of Chemical & Engineering Data</i> , 1988 , 33, 260-262	2.8	25
3	Excess molar volumes of (ethyl formate or ethyl acetate + 1-chloroalkane) at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 1987 , 32, 464-466	2.8	59
2	Isobaric vapor-liquid equilibria of ethyl acetate + ethanol mixtures at 760 \pm 0.5 mmHg. <i>Journal of Chemical & Engineering Data</i> , 1986 , 31, 339-342	2.8	55
1	Excess molar volumes of binary mixtures of butyl formate with normal alcohols at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 1985 , 30, 465-467	2.8	17