De Sant´ana, H B

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.

68 papers	1,144 citations	21 h-index	31 g-index
76 ext. papers	1,336 ext. citations	3.8 avg, IF	4.52 L-index

#	Paper	IF	Citations
68	Electrochemical and theoretical investigation on the behavior of the Co ion in three eutectic solvents.. *Journal of Molecular Graphics and Modelling*, **2022**, 112, 108137	2.8	0
67	Thermodynamic Properties of Biodiesel and Petrodiesel Blends at High Pressure and High Temperature and a New Model for Density Prediction. *Journal of Chemical & Engineering Data*, **2022**, 67, 607-621	2.8	1
66	Cation effect on bis(trifluoromethylsulfonyl)imide-based ionic liquids with triethylsulfonium, 1,2-dimethyl-3-propylimidazolium, 1-methyl-1-propylpyrrolidinium, and 1-butyl-2,3-dimethylimidazolium density at high pressure. *Journal of Molecular Liquids*, **2022**, 354, 118851	6	
65	Analysis of the behavior of Sn2+ and In3+ ions in DES and in water: A theoretical approach. *Journal of Molecular Liquids*, **2022**, 353, 118774	6	
64	Low viscosity lactam-based ionic liquids with carboxylate anions: Application in the separation of systems toluene/heptane, cyclohexene/cyclohexane, and phenol/water. *Journal of Molecular Liquids*, **2021**, 117720	6	
63	Density and Volumetric Behavior of Ternary CO2 + n-Decane + cis-Decalin (or + trans-Decalin) Mixtures at High Pressure and High Temperature. *Journal of Chemical & Engineering Data*, **2021**, 66, 1684-1693	2.8	2
62	Influence of asphaltenes and resins on water/model oil interfacial tension and emulsion behavior: Comparison of extracted fractions from crude oils with different asphaltene stability. *Journal of Petroleum Science and Engineering*, **2021**, 109268	4.4	5
61	Experimental phase behavior and solubility parameter for crude oil + methane [T = 311.15−373.15 K] and crude oil + methane + CO2 mixtures [T = 343.15−383.15 K]. *Fuel*, **2021**, 288, 119675	7.1	2
60	Pressurized extraction of phycobiliproteins from Arthrospira platensis and evaluation of its effect on antioxidant and anticancer activities of these biomolecules. *Journal of Applied Phycology*, **2021**, 33, 929-938	3.2	3
59	Measurement of Fluid Phase Equilibria for High Gas Ratio Mixtures of Carbon Dioxide, Methane, and Brazilian Presalt Crude Oil. *Journal of Chemical & Engineering Data*, **2021**, 66, 1356-1366	2.8	2
58	Effects of electrodeposition parameters on corrosion resistance of ZnSn coatings on carbon steel obtained from eutectic mixture based on choline chloride and ethylene glycol. *Journal of Alloys and Compounds*, **2021**, 886, 161159	5.7	1
57	Density and Volumetric Behavior of Binary CO2 + n-Decane and Ternary CO2 + n-Decane + Naphthalene Systems at High Pressure and High Temperature. *Journal of Chemical & Engineering Data*, **2020**, 65, 3499-3509	2.8	5
56	Low viscosity lactam-based ionic liquids with carboxylate anions: Synthesis, characterization, thermophysical properties and mutual miscibility of ionic liquid with alcohol, water, and hydrocarbons. *Journal of Molecular Liquids*, **2020**, 313, 113586	6	3
55	Synthesis and application of castor oil maleate and castor oil maleate-styrene copolymers as demulsifier for water-in-oil emulsions. *Fuel*, **2020**, 269, 117429	7.1	15
54	Phase Behavior for Crude Oil and Methane Mixtures: Crude Oil Property Comparison. *Energy & Fuels*, **2020**, 34, 5188-5195	4.1	4
53	Viscosity and Density of Binary Mixtures of Toluene + Igepal (CO-520, CO-630, CO-720, and CA-720) at T = 293.15−333.15 K and Atmospheric Pressure. *Journal of Chemical & Engineering Data*, **2020**, 65, 540-548	2.8	1
52	Study of Liquid−Liquid and Liquid−Liquid−Vapor Equilibria for Crude Oil Mixtures with Carbon Dioxide and Methane Using Short-Wave Infrared Imaging: Experimental and Thermodynamic Modeling. *Energy & Fuels*, **2020**, 34, 14109-14123	4.1	5

51	Viscosity and Density of Binary Mixtures of Ethanol + Igepal (CO-520, CO-630, CO-720, and CA-720). *Journal of Chemical & Engineering Data*, **2019**, 64, 594-602	2.8	6
50	Liquid Densities and Speed of Sound for Ionic Liquid (2-HEAA and 2-HDEAA) + Alcohol (1-Propanol and 2-Propanol) Mixtures at T = (293.15−323.15 K) and Atmospheric Pressure. *Journal of Chemical & Engineering Data*, **2019**, 64, 3316-3322	2.8	6
49	Effect of Temperature on Asphaltenes Precipitation: Direct and Indirect Analyses and Phase Equilibrium Study. *Energy & Fuels*, **2019**, 33, 6921-6928	4.1	8
48	Experimental study of the phase behavior of methane and crude oil mixtures. *Fuel*, **2019**, 255, 115850	7.1	7
47	Liquid−liquid Equilibrium Data for Ternary Systems Containing Alkanes (n-Pentane, n-Hexane, n-Heptane, and n-Octane) + Alcohol (Methanol and Ethanol) + Protic Ionic Liquid (2-HEAF). *Journal of Chemical & Engineering Data*, **2019**, 64, 5167-5173	2.8	1
46	Synthesis and application of additives based on cardanol as demulsifier for water-in-oil emulsions. *Fuel*, **2019**, 245, 21-28	7.1	20
45	Addition of Non-endogenous Paraffins in Brazilian Crude Oils and Their Effects on Emulsion Stability and Interfacial Properties. *Energy & Fuels*, **2019**, 33, 3673-3680	4.1	3
44	Paraffin effects on the stability and precipitation of crude oil asphaltenes: Experimental onset determination and phase behavior approach. *Fluid Phase Equilibria*, **2018**, 474, 116-125	2.5	15
43	Estimation of Physical Constants of Biodiesel-Related Fatty Acid Alkyl Esters: Normal Boiling Point, Critical Temperature, Critical Pressure, and Acentric Factor. *Industrial & Engineering Chemistry Research*, **2018**, 57, 8552-8565	3.9	8
42	Pore-expanded SBA-15 for the immobilization of a recombinant Candida antarctica lipase B: Application in esterification and hydrolysis as model reactions. *Chemical Engineering Research and Design*, **2018**, 129, 12-24	5.5	25
41	DENSITY, VISCOSITY AND EXCESS PROPERTIES OF BINARY MIXTURES OF PROTIC IONIC LIQUID (2-HDEAF, 2-HDEAA) + WATER AT DIFFERENT TEMPERATURES. *Brazilian Journal of Chemical Engineering*, **2018**, 35, 383-394	1.7	8
40	Estimation of Vapor Pressures and Enthalpies of Vaporization of Biodiesel-Related Fatty Acid Alkyl Esters. Part 1. Evaluation of Group Contribution and Corresponding States Methods. *Industrial & Engineering Chemistry Research*, **2017**, 56, 2298-2309	3.9	9
39	Immobilization of CALB on activated chitosan: Application to enzymatic synthesis in supercritical and near-critical carbon dioxide. *Biotechnology Reports (Amsterdam, Netherlands)*, **2017**, 14, 16-26	5.3	63
38	Estimation of Vapor Pressures and Enthalpies of Vaporization of Biodiesel-Related Fatty Acid Alkyl Esters. Part 2. New Parameters for Classic Vapor Pressure Correlations. *Industrial & Engineering Chemistry Research*, **2017**, 56, 8349-8357	3.9	4
37	Effects of nanoclay and nanocomposites on bitumen rheological properties. *Construction and Building Materials*, **2016**, 125, 873-883	6.7	35
36	Liquid−liquid Equilibrium for Cottonseed Biodiesel + Water + Alcohol (Methanol/Ethanol) Systems at (293.15 and 313.15) K: Experimental Data and Thermodynamic Modeling. *Journal of Chemical & Engineering Data*, **2015**, 60, 707-713	2.8	6
35	Production of a biosurfactant by Bacillus subtilis ICA56 aiming bioremediation of impacted soils. *Catalysis Today*, **2015**, 255, 10-15	5.3	59
34	Evaluation of Optimal Methods for Critical Properties and Acentric Factor of Biodiesel Compounds with Their Application on Soave−Redlich−Kwong and Peng−Robinson Equations of State. *Journal of Chemical & Engineering Data*, **2015**, 60, 3358-3381	2.8	10

33	Measurement of phase equilibria data for the extraction of toluene from alkane using different solvents. *Fluid Phase Equilibria*, **2015**, 404, 49-54	2.5	12
32	Density and Viscosity of Binary Systems Containing (Linseed or Corn) Oil, (Linseed or Corn) Biodiesel and Diesel. *Journal of Chemical & Engineering Data*, **2015**, 60, 3120-3131	2.8	11
31	Removal of aromatic hydrocarbons from hydrocarbon mixture using glycols at 303.15 K and 333.15 K and atmospheric pressure: Experimental and calculated data by NRTL and UNIQUAC models. *Fluid Phase Equilibria*, **2015**, 387, 135-142	2.5	9
30	Optimization of the methylic biodiesel purification process by intermediate of liquid□quid equilibrium data for ternary systems containing methanol+water+(soybean, corn or brown shell of coconut) biodiesel. *Fluid Phase Equilibria*, **2014**, 361, 30-36	2.5	11
29	Development of a New Group Contribution Method Based on GCVOL Model for the Estimation of Pure Ionic Liquid Density over a Wide Range of Temperature and Pressure. *Industrial & Engineering Chemistry Research*, **2014**, 53, 9506-9512	3.9	12
28	Improving the catalytic properties of immobilized Lecitase via physical coating with ionic polymers. *Enzyme and Microbial Technology*, **2014**, 60, 1-8	3.8	47
27	Density, Viscosities, and Excess Properties for Binary Mixtures of Sulfolane + Alcohols and Sulfolane + Glycols at Different Temperatures. *Journal of Chemical & Engineering Data*, **2014**, 59, 2196-2206	2.8	20
26	Stabilizing hyperactivated lecitase structures through physical treatment with ionic polymers. *Process Biochemistry*, **2014**, 49, 1511-1515	4.8	43
25	Experimental density data and excess molar volumes of coconut biodiesel + n-hexadecane and coconut biodiesel + diesel at different temperatures. *Brazilian Journal of Chemical Engineering*, **2014**, 31, 543-551	1.7	7
24	Performance of a biosurfactant produced by Bacillus subtilis LAMI005 on the formation of oil / biosurfactant / water emulsion: study of the phase behaviour of emulsified systems. *Brazilian Journal of Chemical Engineering*, **2014**, 31, 613-623	1.7	32
23	Crude glycerol from biodiesel industry as substrate for biosurfactant production by Bacillus subtilis ATCC 6633. *Brazilian Archives of Biology and Technology*, **2014**, 57, 295-301	1.8	20
22	Evaluation of optimal activity coefficient models for modeling and simulation of liquid□quid equilibrium of biodiesel + glycerol + alcohol systems. *Fuel*, **2014**, 125, 57-65	7.1	23
21	Ab□iesel: Liquid□quid equilibrium and volumetric transport properties. *Fuel*, **2014**, 119, 292-300	7.1	7
20	Austenitic and ferritic stainless steel dissimilar weld metal evaluation for the applications as-coating in the petroleum processing equipment. *Materials & Design*, **2013**, 47, 1-8		32
19	Liquid□iquid Equilibrium for the Glycerol + Alcohol + Coconut Biodiesel System at Different Temperatures and Atmospheric Pressure. *Journal of Chemical & Engineering Data*, **2012**, 57, 3557-3562	2.8	17
18	Viscosities and Densities of Ternary Blends of Diesel + Soybean Biodiesel + Soybean Oil. *Journal of Chemical & Engineering Data*, **2012**, 57, 3233-3241	2.8	14
17	Viscosities and viscosity deviations of binary mixtures of biodiesel + petrodiesel (or n-hexadecane) at different temperatures. *Brazilian Journal of Chemical Engineering*, **2012**, 29, 653-664	1.7	14
16	Screening of biosurfactant-producing Bacillus strains using glycerol from the biodiesel synthesis as main carbon source. *Bioprocess and Biosystems Engineering*, **2012**, 35, 897-906	3.7	55

15	Liquid–liquid equilibria of systems containing cottonseed biodiesel + glycerol + ethanol at 293.15, 313.15 and 333.15 K. *Fluid Phase Equilibria*, **2012**, 318, 51-55	2.5	26
14	Development of a new model for biodiesel viscosity prediction based on the principle of corresponding state. *Fuel*, **2012**, 92, 250-257	7.1	22
13	Density, Excess Volumes, and Partial Volumes of Binary Mixtures of Soybean Biodiesel + Diesel and Soybean Biodiesel + n-Hexadecane at Different Temperatures and Atmospheric Pressure. *Journal of Chemical & Engineering Data*, **2011**, 56, 153-157	2.8	20
12	Liquid–liquid Equilibrium for Ternary Mixtures of Biodiesel (Soybean or Sunflower) + Glycerol + Ethanol at Different Temperatures. *Journal of Chemical & Engineering Data*, **2011**, 56, 4061-4067	2.8	33
11	Excess Volumes and Deviations of Viscosities of Binary Blends of Sunflower Biodiesel + Diesel and Fish Oil Biodiesel + Diesel at Various Temperatures. *Journal of Chemical & Engineering Data*, **2011**, 56, 3061-3067	2.8	26
10	Densities and Viscosities of Binary Mixtures of Babassu Biodiesel + Cotton Seed or Soybean Biodiesel at Different Temperatures. *Journal of Chemical & Engineering Data*, **2010**, 55, 5305-5310	2.8	60
9	Viscosities and Densities of Binary Mixtures of Coconut + Colza and Coconut + Soybean Biodiesel at Various Temperatures. *Journal of Chemical & Engineering Data*, **2010**, 55, 3909-3914	2.8	53
8	Microstructure, hardness and petroleum corrosion evaluation of 316L/AWS E309MoL-16 weld metal. *Materials Characterization*, **2009**, 60, 346-352	3.9	37
7	Evaluation of AISI 316L stainless steel welded plates in heavy petroleum environment. *Materials & Design*, **2009**, 30, 1581-1587		29
6	Viscosity and Density of Binary Mixtures of Ethyl Alcohol with n-Alkanes (C6, C8, and C10). *Journal of Chemical & Engineering Data*, **2009**, 54, 2957-2963	2.8	29
5	High-temperature hydrogen sulfide corrosion on the heat-affected zone of the AISI 444 stainless steel caused by Venezuelan heavy petroleum. *Journal of Petroleum Science and Engineering*, **2007**, 59, 219-225	4.4	21
4	Particle size distribution modeling in the object oriented simulation of gas–solid flow. *Chemical Engineering Journal*, **2006**, 122, 141-147	14.7	1
3	Effect of temperature on the level of corrosion caused by heavy petroleum on AISI 304 and AISI 444 stainless steel. *Materials Research*, **2006**, 9, 137-142	1.5	10
2	Evaluation of an improved volume translation for the prediction of hydrocarbon volumetric properties. *Fluid Phase Equilibria*, **1999**, 154, 193-204	2.5	39
1	Phase Behavior Investigation of a Live Presalt Crude Oil from Short-Wave Infrared Observation, Acoustic Wave Sensing, and Equation of State Modeling. *Energy & Fuels*,	4.1	1