

De Sant'ana, H B

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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	Immobilization of CALB on activated chitosan: Application to enzymatic synthesis in supercritical and near-critical carbon dioxide. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2017 , 14, 16-26	5.3	63
67	Densities and Viscosities of Binary Mixtures of Babassu Biodiesel + Cotton Seed or Soybean Biodiesel at Different Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5305-5310	2.8	60
66	Production of a biosurfactant by <i>Bacillus subtilis</i> ICA56 aiming bioremediation of impacted soils. <i>Catalysis Today</i> , 2015 , 255, 10-15	5.3	59
65	Screening of biosurfactant-producing <i>Bacillus</i> strains using glycerol from the biodiesel synthesis as main carbon source. <i>Bioprocess and Biosystems Engineering</i> , 2012 , 35, 897-906	3.7	55
64	Viscosities and Densities of Binary Mixtures of Coconut + Colza and Coconut + Soybean Biodiesel at Various Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 3909-3914	2.8	53
63	Improving the catalytic properties of immobilized Lecitase via physical coating with ionic polymers. <i>Enzyme and Microbial Technology</i> , 2014 , 60, 1-8	3.8	47
62	Stabilizing hyperactivated lecitase structures through physical treatment with ionic polymers. <i>Process Biochemistry</i> , 2014 , 49, 1511-1515	4.8	43
61	Evaluation of an improved volume translation for the prediction of hydrocarbon volumetric properties. <i>Fluid Phase Equilibria</i> , 1999 , 154, 193-204	2.5	39
60	Microstructure, hardness and petroleum corrosion evaluation of 316L/AWS E309MoL-16 weld metal. <i>Materials Characterization</i> , 2009 , 60, 346-352	3.9	37
59	Effects of nanoclay and nanocomposites on bitumen rheological properties. <i>Construction and Building Materials</i> , 2016 , 125, 873-883	6.7	35
58	Liquid-Liquid Equilibrium for Ternary Mixtures of Biodiesel (Soybean or Sunflower) + Glycerol + Ethanol at Different Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 4061-4067	2.8	33
57	Austenitic and ferritic stainless steel dissimilar weld metal evaluation for the applications as-coating in the petroleum processing equipment. <i>Materials & Design</i> , 2013 , 47, 1-8		32
56	Performance of a biosurfactant produced by <i>Bacillus subtilis</i> LAMI005 on the formation of oil / biosurfactant / water emulsion: study of the phase behaviour of emulsified systems. <i>Brazilian Journal of Chemical Engineering</i> , 2014 , 31, 613-623	1.7	32
55	Evaluation of AISI 316L stainless steel welded plates in heavy petroleum environment. <i>Materials & Design</i> , 2009 , 30, 1581-1587		29
54	Viscosity and Density of Binary Mixtures of Ethyl Alcohol with n-Alkanes (C6, C8, and C10). <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 2957-2963	2.8	29
53	Liquid-Liquid equilibria of systems containing cottonseed biodiesel + glycerol + ethanol at 293.15, 313.15 and 333.15 K. <i>Fluid Phase Equilibria</i> , 2012 , 318, 51-55	2.5	26
52	Excess Volumes and Deviations of Viscosities of Binary Blends of Sunflower Biodiesel + Diesel and Fish Oil Biodiesel + Diesel at Various Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 3061-3067	2.8	26

51	Pore-expanded SBA-15 for the immobilization of a recombinant <i>Candida antarctica</i> lipase B: Application in esterification and hydrolysis as model reactions. <i>Chemical Engineering Research and Design</i> , 2018 , 129, 12-24	5.5	25
50	Evaluation of optimal activity coefficient models for modeling and simulation of liquid-liquid equilibrium of biodiesel + glycerol + alcohol systems. <i>Fuel</i> , 2014 , 125, 57-65	7.1	23
49	Development of a new model for biodiesel viscosity prediction based on the principle of corresponding state. <i>Fuel</i> , 2012 , 92, 250-257	7.1	22
48	High-temperature hydrogen sulfide corrosion on the heat-affected zone of the AISI 444 stainless steel caused by Venezuelan heavy petroleum. <i>Journal of Petroleum Science and Engineering</i> , 2007 , 59, 219-225	4.4	21
47	Density, Viscosities, and Excess Properties for Binary Mixtures of Sulfolane + Alcohols and Sulfolane + Glycols at Different Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 2196-2206	2.8	20
46	Crude glycerol from biodiesel industry as substrate for biosurfactant production by <i>Bacillus subtilis</i> ATCC 6633. <i>Brazilian Archives of Biology and Technology</i> , 2014 , 57, 295-301	1.8	20
45	Density, Excess Volumes, and Partial Volumes of Binary Mixtures of Soybean Biodiesel + Diesel and Soybean Biodiesel + n-Hexadecane at Different Temperatures and Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 153-157	2.8	20
44	Synthesis and application of additives based on cardanol as demulsifier for water-in-oil emulsions. <i>Fuel</i> , 2019 , 245, 21-28	7.1	20
43	Liquid-Liquid Equilibrium for the Glycerol + Alcohol + Coconut Biodiesel System at Different Temperatures and Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3557-3562	2.8	17
42	Synthesis and application of castor oil maleate and castor oil maleate-styrene copolymers as demulsifier for water-in-oil emulsions. <i>Fuel</i> , 2020 , 269, 117429	7.1	15
41	Paraffin effects on the stability and precipitation of crude oil asphaltenes: Experimental onset determination and phase behavior approach. <i>Fluid Phase Equilibria</i> , 2018 , 474, 116-125	2.5	15
40	Viscosities and Densities of Ternary Blends of Diesel + Soybean Biodiesel + Soybean Oil. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3233-3241	2.8	14
39	Viscosities and viscosity deviations of binary mixtures of biodiesel + petrodiesel (or n-hexadecane) at different temperatures. <i>Brazilian Journal of Chemical Engineering</i> , 2012 , 29, 653-664	1.7	14
38	Measurement of phase equilibria data for the extraction of toluene from alkane using different solvents. <i>Fluid Phase Equilibria</i> , 2015 , 404, 49-54	2.5	12
37	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. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 9506-9512	3.9	12
36	Density and Viscosity of Binary Systems Containing (Linseed or Corn) Oil, (Linseed or Corn) Biodiesel and Diesel. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 3120-3131	2.8	11
35	Optimization of the methylic biodiesel purification process by intermediate of liquid-liquid equilibrium data for ternary systems containing methanol+water+(soybean, corn or brown shell of coconut) biodiesel. <i>Fluid Phase Equilibria</i> , 2014 , 361, 30-36	2.5	11
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. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 3358-3381	2.8	10

33	Effect of temperature on the level of corrosion caused by heavy petroleum on AISI 304 and AISI 444 stainless steel. <i>Materials Research</i> , 2006 , 9, 137-142	1.5	10
32	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. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 2298-2309	3.9	9
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. <i>Fluid Phase Equilibria</i> , 2015 , 387, 135-142	2.5	9
30	Estimation of Physical Constants of Biodiesel-Related Fatty Acid Alkyl Esters: Normal Boiling Point, Critical Temperature, Critical Pressure, and Acentric Factor. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 8552-8565	3.9	8
29	Effect of Temperature on Asphaltenes Precipitation: Direct and Indirect Analyses and Phase Equilibrium Study. <i>Energy & Fuels</i> , 2019 , 33, 6921-6928	4.1	8
28	DENSITY, VISCOSITY AND EXCESS PROPERTIES OF BINARY MIXTURES OF PROTIC IONIC LIQUID (2-HDEAF, 2-HDEAA) + WATER AT DIFFERENT TEMPERATURES. <i>Brazilian Journal of Chemical Engineering</i> , 2018 , 35, 383-394	1.7	8
27	Experimental study of the phase behavior of methane and crude oil mixtures. <i>Fuel</i> , 2019 , 255, 115850	7.1	7
26	Experimental density data and excess molar volumes of coconut biodiesel + n-hexadecane and coconut biodiesel + diesel at different temperatures. <i>Brazilian Journal of Chemical Engineering</i> , 2014 , 31, 543-551	1.7	7
25	Abdiesel: Liquid-Liquid equilibrium and volumetric transport properties. <i>Fuel</i> , 2014 , 119, 292-300	7.1	7
24	Viscosity and Density of Binary Mixtures of Ethanol + Igepal (CO-520, CO-630, CO-720, and CA-720). <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 594-602	2.8	6
23	Liquid-Liquid Equilibrium for Cottonseed Biodiesel + Water + Alcohol (Methanol/Ethanol) Systems at (293.15 and 313.15) K: Experimental Data and Thermodynamic Modeling. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 707-713	2.8	6
22	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. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 3316-3322	2.8	6
21	Density and Volumetric Behavior of Binary CO ₂ + n-Decane and Ternary CO ₂ + n-Decane + Naphthalene Systems at High Pressure and High Temperature. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 3499-3509	2.8	5
20	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. <i>Energy & Fuels</i> , 2020 , 34, 14109-14123	4.1	5
19	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. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 109268	4.4	5
18	Estimation of Vapor Pressures and Enthalpies of Vaporization of Biodiesel-Related Fatty Acid Alkyl Esters. Part 2. New Parameters for Classic Vapor Pressure Correlations. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 8349-8357	3.9	4
17	Phase Behavior for Crude Oil and Methane Mixtures: Crude Oil Property Comparison. <i>Energy & Fuels</i> , 2020 , 34, 5188-5195	4.1	4
16	Low viscosity lactam-based ionic liquids with carboxylate anions: Synthesis, characterization, thermophysical properties and mutual miscibility of ionic liquid with alcohol, water, and hydrocarbons. <i>Journal of Molecular Liquids</i> , 2020 , 313, 113586	6	3

15	Addition of Non-endogenous Paraffins in Brazilian Crude Oils and Their Effects on Emulsion Stability and Interfacial Properties. <i>Energy & Fuels</i> , 2019 , 33, 3673-3680	4.1	3
14	Pressurized extraction of phycobiliproteins from <i>Arthrospira platensis</i> and evaluation of its effect on antioxidant and anticancer activities of these biomolecules. <i>Journal of Applied Phycology</i> , 2021 , 33, 929-938	3.2	3
13	Density and Volumetric Behavior of Ternary CO ₂ + n-Decane + cis-Decalin (or + trans-Decalin) Mixtures at High Pressure and High Temperature. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 1684-1693	2.8	2
12	Experimental phase behavior and solubility parameter for crude oil+methane [T=311.15-373.15K] and crude oil+methane+CO ₂ mixtures [T=343.15-383.15K]. <i>Fuel</i> , 2021 , 288, 119675	7.1	2
11	Measurement of Fluid Phase Equilibria for High Gas Ratio Mixtures of Carbon Dioxide, Methane, and Brazilian Presalt Crude Oil. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 1356-1366	2.8	2
10	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). <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 5167-5173	2.8	1
9	Particle size distribution modeling in the object oriented simulation of gas-solid flow. <i>Chemical Engineering Journal</i> , 2006 , 122, 141-147	14.7	1
8	Phase Behavior Investigation of a Live Presalt Crude Oil from Short-Wave Infrared Observation, Acoustic Wave Sensing, and Equation of State Modeling. <i>Energy & Fuels</i> ,	4.1	1
7	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. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 540-548	2.8	1
6	Effects of electrodeposition parameters on corrosion resistance of ZnSn coatings on carbon steel obtained from eutectic mixture based on choline chloride and ethylene glycol. <i>Journal of Alloys and Compounds</i> , 2021 , 886, 161159	5.7	1
5	Thermodynamic Properties of Biodiesel and Petrodiesel Blends at High Pressure and High Temperature and a New Model for Density Prediction. <i>Journal of Chemical & Engineering Data</i> , 2022 , 67, 607-621	2.8	1
4	Electrochemical and theoretical investigation on the behavior of the Co ion in three eutectic solvents.. <i>Journal of Molecular Graphics and Modelling</i> , 2022 , 112, 108137	2.8	0
3	Low viscosity lactam-based ionic liquids with carboxylate anions: Application in the separation of systems toluene/heptane, cyclohexene/cyclohexane, and phenol/water. <i>Journal of Molecular Liquids</i> , 2021 , 117720	6	
2	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. <i>Journal of Molecular Liquids</i> , 2022 , 354, 118851	6	
1	Analysis of the behavior of Sn ²⁺ and In ³⁺ ions in DES and in water: A theoretical approach. <i>Journal of Molecular Liquids</i> , 2022 , 353, 118774	6	