

De Sant'ana, H B

List of Publications by Year in descending order

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72
papers

1,564
citations

257101

24
h-index

360668

35
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76
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76
docs citations

76
times ranked

1483
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of a biosurfactant by <i>Bacillus subtilis</i> ICA56 aiming bioremediation of impacted soils. <i>Catalysis Today</i> , 2015, 255, 10-15.	2.2	83
2	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.	2.1	72
3	Stabilizing hyperactivated lecithase structures through physical treatment with ionic polymers. <i>Process Biochemistry</i> , 2014, 49, 1511-1515.	1.8	70
4	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.	1.7	69
5	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.	1.0	68
6	Improving the catalytic properties of immobilized Lecithase via physical coating with ionic polymers. <i>Enzyme and Microbial Technology</i> , 2014, 60, 1-8.	1.6	61
7	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.	1.0	56
8	Effects of nanoclay and nanocomposites on bitumen rheological properties. <i>Construction and Building Materials</i> , 2016, 125, 873-883.	3.2	50
9	Evaluation of an improved volume translation for the prediction of hydrocarbon volumetric properties. <i>Fluid Phase Equilibria</i> , 1999, 154, 193-204.	1.4	47
10	Microstructure, hardness and petroleum corrosion evaluation of 316L/AWS E309MoL-16 weld metal. <i>Materials Characterization</i> , 2009, 60, 346-352.	1.9	45
11	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.	5.1	45
12	Viscosity and Density of Binary Mixtures of Ethyl Alcohol with C_6 -Alkanes (C_6). <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 3909-3914.	1.0	39
13	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.	1.0	39
14	Performance of a biosurfactant produced by <i>Bacillus subtilis</i> LAM1005 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.	0.7	38
15	Evaluation of AISI 316L stainless steel welded plates in heavy petroleum environment. <i>Materials & Design</i> , 2009, 30, 1581-1587.	5.1	36
16	Synthesis and application of additives based on cardanol as demulsifier for water-in-oil emulsions. <i>Fuel</i> , 2019, 245, 21-28.	3.4	36
17	Liquid-Liquid equilibria of systems containing cottonseed biodiesel+glycerol+ethanol at 293.15, 313.15 and 333.15K. <i>Fluid Phase Equilibria</i> , 2012, 318, 51-55.	1.4	30
18	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.	1.0	29

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19	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.	0.5	29
20	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.	1.0	28
21	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.	3.4	27
22	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.	2.7	27
23	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> , 2022, 208, 109268.	2.1	27
24	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.	2.1	24
25	Development of a new model for biodiesel viscosity prediction based on the principle of corresponding state. <i>Fuel</i> , 2012, 92, 250-257.	3.4	24
26	Density, Excess Volumes, and Partial Volumes of Binary Mixtures of Soybean Biodiesel + Diesel and Soybean Biodiesel + <i>n</i> -Hexadecane at Different Temperatures and Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 153-157.	1.0	23
27	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.	1.0	22
28	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.	1.4	21
29	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.	3.4	20
30	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.	1.8	19
31	Viscosities and Densities of Ternary Blends of Diesel + Soybean Biodiesel + Soybean Oil. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 3233-3241.	1.0	18
32	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) <i>Tj ETQq0 0 0 rgBT /Overlook 10 Tf 50</i>	1.4	17
33	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.	2.8	16
34	Viscosities and viscosity deviations of binary mixtures of biodiesel + petrodiesel (or <i>n</i> -hexadecane) at different temperatures. <i>Brazilian Journal of Chemical Engineering</i> , 2012, 29, 653-664.	0.7	15
35	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.	1.0	15
36	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.	0.6	14

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37	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.	1.0	13
38	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.	1.8	13
39	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.	1.8	13
40	Effect of Temperature on Asphaltenes Precipitation: Direct and Indirect Analyses and Phase Equilibrium Study. <i>Energy & Fuels</i> , 2019, 33, 6921-6928.	2.5	13
41	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.	1.5	13
42	Measurement of phase equilibria data for the extraction of toluene from alkane using different solvents. <i>Fluid Phase Equilibria</i> , 2015, 404, 49-54.	1.4	12
43	Experimental study of the phase behavior of methane and crude oil mixtures. <i>Fuel</i> , 2019, 255, 115850.	3.4	12
44	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.	1.0	12
45	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.	0.7	10
46	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.	1.4	10
47	Phase Behavior for Crude Oil and Methane Mixtures: Crude Oil Property Comparison. <i>Energy & Fuels</i> , 2020, 34, 5188-5195.	2.5	10
48	DENSITY, VISCOSITY AND EXCESS PROPERTIES OF BINARY MIXTURES OF PROTIC IONIC LIQUID (2-HDEAF), Tj ETQq0 0 0 rgBT /Overlock 383-394.	0.7	9
49	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.	1.0	9
50	Liquid Densities and Speed of Sound for Ionic Liquid (2-HEAA and 2-HDEAA) + Alcohol (1-Propanol and) Tj ETQq0 0 0 rgBT /Overlock & Engineering Data, 2019, 64, 3316-3322.	1.0	8
51	Study of Liquid-Liquid and 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.	2.5	8
52	Ab-diesel: Liquid-liquid equilibrium and volumetric transport properties. <i>Fuel</i> , 2014, 119, 292-300.	3.4	7
53	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.	1.0	7
54	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.	2.5	7

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55	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.	2.3	7
56	Experimental phase behavior and solubility parameter for crude oil+Methane [$T=311.15\text{--}373.15\text{K}$] and crude oil+Methane+CO ₂ mixtures [$T=343.15\text{--}383.15\text{K}$]. <i>Fuel</i> , 2021, 288, 119675.	3.4	7
57	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.	1.0	7
58	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.	1.0	5
59	Density and Volumetric Behavior of Ternary CO ₂ + n-Decane + cis-Decalin (or) Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 387 <i>Engineering Data</i> , 2021, 66, 1684-1693.	1.0	5
60	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> , 2021, 35, 18504-18517.	2.5	5
61	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.	1.8	4
62	Electrochemical and theoretical investigation on the behavior of the Co ²⁺ ion in three eutectic solvents. <i>Journal of Molecular Graphics and Modelling</i> , 2022, 112, 108137.	1.3	4
63	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.	2.3	4
64	Liquid-Liquid Equilibrium Data for Ternary Systems Containing Alkanes (n-Pentane,) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 387 Ionic Liquid (2-HEAF). <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 5167-5173.	1.0	3
65	Viscosity and Density of Binary Mixtures of Toluene + Igepal (CO-520, CO-630, CO-720, and CA-720) at $T = 293.15\text{--}333.15\text{K}$ and Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 540-548.	1.0	3
66	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> , 2022, 346, 117720.	2.3	3
67	Binary Mixture of Double Protic Ionic Liquid: Density, Viscosity, Refractive Index, Surface Tension, and Derivative Properties. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 4309-4325.	1.0	3
68	Density and Volumetric Behavior of Ternary CO ₂ + n-Decane + n-Butylcyclohexane Mixtures at High Pressure and High Temperature. <i>Journal of Chemical & Engineering Data</i> , 2022, 67, 1397-1405.	1.0	3
69	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.	2.3	2
70	Particle size distribution modeling in the object oriented simulation of gas-solid flow. <i>Chemical Engineering Journal</i> , 2006, 122, 141-147.	6.6	1
71	CHROMATOGRAPHIC, RHEOLOGICAL AND CYTOCHEMISTRY EVALUATION OF α -BACURI-PULP (Platonia) Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 387	0.2	1
72	High-Pressure and High-Temperature Density Data, Derivative Properties, and Group Contribution Models Applied for 1-Methyl-3-octylimidazolium Trifluoromethanesulfonate, 1-Butyl-1-methylpyrrolidinium Dicyanamide, and 1-Ethyl-3-methylimidazolium Acetate Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2022, 67, 1078-1088.	1.0	1