

MarÃ-a Dolores Bermejo

List of Publications by Year in descending order

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69
papers

2,356
citations

172457

29
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214800

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all docs

69
docs citations

69
times ranked

1764
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermal CO ₂ Reduction by Glucose as Reducing Agent and Metals and Metal Oxides as Catalysts. <i>Molecules</i> , 2022, 27, 1652.	3.8	8
2	Catalytic hydrothermal conversion of CO ₂ captured by ammonia into formate using aluminum-sourced hydrogen at mild reaction conditions. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 97, 539-548.	5.8	7
3	A Bio-Based Alginate Aerogel as an Ionic Liquid Support for the Efficient Synthesis of Cyclic Carbonates from CO ₂ and Epoxides. <i>Catalysts</i> , 2021, 11, 872.	3.5	7
4	Analysis of the Energy Flow in a Municipal Wastewater Treatment Plant Based on a Supercritical Water Oxidation Reactor Coupled to a Gas Turbine. <i>Processes</i> , 2021, 9, 1237.	2.8	5
5	Energy and Economic Analysis of the Hydrothermal Reduction of CO ₂ into Formate. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 14038-14050.	3.7	4
6	Density and viscosity measurements of (piperazine+water) and (piperazine+2-dimethylaminoethanol+water) at high pressures. <i>Journal of Chemical Thermodynamics</i> , 2020, 141, 105960.		4
7	Solubility of CO ₂ in three cellulose-dissolving ionic liquids. <i>AIChE Journal</i> , 2020, 66, e16228.	3.6	6
8	Density and Melting Points for the Binary Mixtures Dimethyl Sulfoxide (DMSO) + 1-Ethyl-3-methylimidazolium Acetate and DMSO + Choline Acetate. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 2923-2928.	1.9	2
9	GC-EoS extension to alkylphosphate imidazolium ionic liquids. <i>Fluid Phase Equilibria</i> , 2019, 479, 25-32.	2.5	3
10	Determination of Density and Viscosity of Binary Mixtures of Water and Dimethyl Sulfoxide with 1-Ethyl-3-methylimidazolium Diethylphosphate [EtMelm] ⁺ [Et ₂ PO ₄] ⁻ at Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 1053-1064.	1.9	13
11	Effect of scCO ₂ on the kinetics of acetylation of cellulose using 1-allyl-3-methylimidazolium chloride as solvent. Experimental study and modeling. <i>Journal of Supercritical Fluids</i> , 2018, 141, 97-103.	3.2	3
12	Applications of supercritical technologies to CO ₂ reduction: Catalyst development and process intensification. <i>Journal of Supercritical Fluids</i> , 2018, 134, 141-149.	3.2	6
13	Vapor-liquid equilibria and excess enthalpies of the binary systems 1-pentanol or 2-pentanol and 1-hexene or 1,2,4-trimethylbenzene for the development of biofuels. <i>Fluid Phase Equilibria</i> , 2018, 460, 85-94.	2.5	5
14	2Hydrothermal CO ₂ conversion using zinc as reductant: Batch reaction, modeling and parametric analysis of the process. <i>Journal of Supercritical Fluids</i> , 2018, 140, 320-328.	3.2	17
15	Determination of density, viscosity and vapor pressures of mixtures of dimethyl sulfoxide+1-allyl-3-methylimidazolium chloride at atmospheric pressure. <i>Journal of Chemical Thermodynamics</i> , 2018, 123, 185-194.	2.0	12
16	Preparation of cellulose aerogels from ionic liquid solutions for supercritical impregnation of phytol. <i>Journal of Supercritical Fluids</i> , 2017, 130, 17-22.	3.2	24
17	Determination of density and excess molar volume of dimethyl sulfoxide + 1-allyl-3-methylimidazolium chloride mixtures at high pressure. <i>Journal of Supercritical Fluids</i> , 2017, 130, 76-83.	3.2	3
18	Ionic Liquid as Reaction Media for the Production of Cellulose-Derived Polymers from Cellulosic Biomass. <i>ChemEngineering</i> , 2017, 1, 10.	2.4	28

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19	Characterizing second generation biofuels: Excess enthalpies and vapour-liquid equilibria of the binary mixtures containing 1-pentanol or 2-pentanol and n-hexane. <i>Fluid Phase Equilibria</i> , 2016, 425, 177-182.	2.5	5
20	Experimental determination of viscosities and densities of mixtures carbon dioxide+1-allyl-3-methylimidazolium chloride. Viscosity correlation. <i>Journal of Supercritical Fluids</i> , 2016, 111, 91-96.	3.2	18
21	Melting point depression effect with CO ₂ in high melting temperature cellulose dissolving ionic liquids. Modeling with group contribution equation of state. <i>Journal of Supercritical Fluids</i> , 2016, 107, 590-604.	3.2	18
22	Kinetics of hydrogen release from dissolutions of ammonia borane in different ionic liquids. <i>Energy</i> , 2015, 91, 742-750.	8.8	14
23	Pressure and temperature effect on cellulose hydrolysis in pressurized water. <i>Chemical Engineering Journal</i> , 2015, 276, 145-154.	12.7	61
24	Energy recovery from effluents of supercritical water oxidation reactors. <i>Journal of Supercritical Fluids</i> , 2015, 104, 1-9.	3.2	20
25	Transformation of glucose into added value compounds in a hydrothermal reaction media. <i>Journal of Supercritical Fluids</i> , 2015, 98, 204-210.	3.2	33
26	Governing Chemistry of Cellulose Hydrolysis in Supercritical Water. <i>ChemSusChem</i> , 2015, 8, 1026-1033.	6.8	72
27	Influence of water concentration in the viscosities and densities of cellulose dissolving ionic liquids. Correlation of viscosity data. <i>Journal of Chemical Thermodynamics</i> , 2015, 91, 8-16.	2.0	22
28	Supercritical water oxidation for energy production by hydrothermal flame as internal heat source. Experimental results and energetic study. <i>Energy</i> , 2015, 90, 1584-1594.	8.8	38
29	Selective transformation of fructose and high fructose content biomass into lactic acid in supercritical water. <i>Catalysis Today</i> , 2015, 255, 80-86.	4.4	19
30	Energetic approach of biomass hydrolysis in supercritical water. <i>Bioresource Technology</i> , 2015, 179, 136-143.	9.6	33
31	Supercritical water oxidation with hydrothermal flame as internal heat source: Efficient and clean energy production from waste. <i>Journal of Supercritical Fluids</i> , 2015, 96, 103-113.	3.2	65
32	Reaction engineering for process intensification of supercritical water biomass refining. <i>Journal of Supercritical Fluids</i> , 2015, 96, 21-35.	3.2	60
33	Simultaneous and selective recovery of cellulose and hemicellulose fractions from wheat bran by supercritical water hydrolysis. <i>Green Chemistry</i> , 2015, 17, 610-618.	9.0	72
34	Supercritical Water Oxidation (SCWO) of Solid, Liquid and Gaseous Fuels for Energy Generation. <i>Biofuels and Biorefineries</i> , 2014, , 401-426.	0.5	1
35	Reactors for Supercritical Water Oxidation Processes. <i>Biofuels and Biorefineries</i> , 2014, , 179-205.	0.5	0
36	Co-oxidation of ammonia and isopropanol in supercritical water in a tubular reactor. <i>Chemical Engineering Research and Design</i> , 2014, 92, 2568-2574.	5.6	35

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37	Numerical study of the influence of geometrical and operational parameters in the behavior of a hydrothermal flame in vessel reactors. <i>Chemical Engineering Science</i> , 2014, 112, 47-55.	3.8	16
38	Kinetic model for isopropanol oxidation in supercritical water in hydrothermal flame regime and analysis. <i>Journal of Supercritical Fluids</i> , 2013, 76, 41-47.	3.2	22
39	High glucose selectivity in pressurized water hydrolysis of cellulose using ultra-fast reactors. <i>Bioresource Technology</i> , 2013, 135, 697-703.	9.6	74
40	Kinetic analysis of cellulose depolymerization reactions in near critical water. <i>Journal of Supercritical Fluids</i> , 2013, 75, 48-57.	3.2	91
41	Solubility of gases in 1-alkyl-3-methylimidazolium alkyl sulfate ionic liquids: Experimental determination and modeling. <i>Journal of Chemical Thermodynamics</i> , 2013, 58, 237-244.	2.0	50
42	Patents Review on Lignocellulosic Biomass Processing Using Ionic Liquids. <i>Recent Patents on Engineering</i> , 2012, 6, 159-181.	0.4	7
43	Activity Coefficients at Infinite Dilution in Methylimidazolium Nitrate Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 517-520.	1.9	26
44	Experimental study of the supercritical water oxidation of recalcitrant compounds under hydrothermal flames using tubular reactors. <i>Water Research</i> , 2011, 45, 2485-2495.	11.3	63
45	Experimental study of hydrothermal flames formation using a tubular injector in a refrigerated reaction chamber. Influence of the operational and geometrical parameters. <i>Journal of Supercritical Fluids</i> , 2011, 59, 140-148.	3.2	32
46	Teaching advanced equations of state in applied thermodynamics courses using open source programs. <i>Education for Chemical Engineers</i> , 2011, 6, e114-e121.	4.8	28
47	Analysis of the scale up of a transpiring wall reactor with a hydrothermal flame as a heat source for the supercritical water oxidation. <i>Journal of Supercritical Fluids</i> , 2011, 56, 21-32.	3.2	68
48	Recent Developments of Supercritical Water Oxidation: A Patents Review. <i>Recent Patents on Chemical Engineering</i> , 2011, 4, 219-230.	0.5	10
49	Recent Developments of Supercritical Water Oxidation: A Patents Review. <i>Recent Patents on Chemical Engineering</i> , 2011, 4, 219-230.	0.5	1
50	Application of a group contribution equation of state for the thermodynamic modeling of binary systems (gas + ionic liquids) with bis[(trifluoromethyl)sulfonyl]imide anion. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 524-529.	2.0	24
51	Thermodynamic analysis of absorption refrigeration cycles using ionic liquid+supercritical CO ₂ pairs. <i>Journal of Supercritical Fluids</i> , 2010, 55, 852-859.	3.2	80
52	Computational fluid dynamics simulation of a transpiring wall reactor for supercritical water oxidation. <i>Chemical Engineering Journal</i> , 2010, 158, 431-440.	12.7	40
53	Application of a Group Contribution Equation of State for the Thermodynamic Modeling of Gas + Ionic Liquid Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 4966-4973.	3.7	16
54	Application of a group contribution equation of state for the thermodynamic modeling of the binary systems CO ₂ +1-butyl-3-methyl imidazolium nitrate and CO ₂ +1-hydroxy-1-propyl-3-methyl imidazolium nitrate. <i>Journal of Supercritical Fluids</i> , 2009, 50, 112-117.	3.2	33

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55	Experimental study of hydrothermal flames initiation using different static mixer configurations. <i>Journal of Supercritical Fluids</i> , 2009, 50, 240-249.	3.2	38
56	Experimental Performance and Modeling of a New Cooled-Wall Reactor for the Supercritical Water Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 6262-6272.	3.7	31
57	Influence of the enzyme concentration on the phase behaviour for developing a homogeneous enzymatic reaction in ionic liquidâ€“CO ₂ media. <i>Green Chemistry</i> , 2008, 10, 1049.	9.0	31
58	Equation of state modeling of the phase equilibria of ionic liquid mixtures at low and high pressure. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6160.	2.8	44
59	Liquidâ€“Vapor Equilibrium of the Systems Butylmethylimidazolium Nitrateâ€“CO ₂ and Hydroxypropylmethylimidazolium Nitrateâ€“CO ₂ at High Pressure: Influence of Water on the Phase Behavior. <i>Journal of Physical Chemistry B</i> , 2008, 112, 13532-13541.	2.6	55
60	Application of the Anderkoâ€“Pitzer EoS to the calculation of thermodynamical properties of systems involved in the supercritical water oxidation process. <i>Journal of Supercritical Fluids</i> , 2007, 42, 27-35.	3.2	18
61	Bubble points of the systems isopropanolâ€“water, isopropanolâ€“waterâ€“sodium acetate and isopropanolâ€“waterâ€“sodium oleate at high pressure. <i>Fluid Phase Equilibria</i> , 2006, 244, 78-85.	2.5	4
62	Destruction of an industrial wastewater by supercritical water oxidation in a transpiring wall reactor. <i>Journal of Hazardous Materials</i> , 2006, 137, 965-971.	12.4	64
63	Experimental study of the operational parameters of a transpiring wall reactor for supercritical water oxidation. <i>Journal of Supercritical Fluids</i> , 2006, 39, 70-79.	3.2	58
64	Effect of the Transpiring Wall on the Behavior of a Supercritical Water Oxidation Reactor: Modeling and Experimental Results. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 3438-3446.	3.7	60
65	Supercritical water oxidation: A technical review. <i>AIChE Journal</i> , 2006, 52, 3933-3951.	3.6	349
66	Experimental and theoretical study of the influence of pressure on SCWO. <i>AIChE Journal</i> , 2006, 52, 3958-3966.	3.6	10
67	Modeling of a Transpiring Wall Reactor for the Supercritical Water Oxidation Using Simple Flow Patterns: A Comparison to Experimental Results. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 3835-3845.	3.7	37
68	The influence of Na ₂ SO ₄ on the CO ₂ solubility in water at high pressure. <i>Fluid Phase Equilibria</i> , 2005, 238, 220-228.	2.5	57
69	A process for generating power from the oxidation of coal in supercritical water. <i>Fuel</i> , 2004, 83, 195-204.	6.4	76