Richard L Smith Jr

List of Publications by Year
in descending order

270 papers	12,283 citations	22132 59 h-index	32815 100 g-index
278 all docs	278 docs citations	278 times ranked	10694 citing authors

#	Article	IF	Citations
1	Catalytic dehydration of fructose into 5-hydroxymethylfurfural by ion-exchange resin in mixed-aqueous system by microwave heating. Green Chemistry, 2008, 10, 799.	4.6	340
2	Reaction chemistry and phase behavior of lignin in high-temperature and supercritical water. Bioresource Technology, 2008, 99, 3424-3430.	4.8	333
3	Ultrasound-enhanced conversion of biomass to biofuels. Progress in Energy and Combustion Science, 2014, 41, 56-93.	15.8	319
4	Efficient process for conversion of fructose to 5-hydroxymethylfurfural with ionic liquids. Green Chemistry, 2009, 11, 1327.	4.6	275
5	Replacement of CH4 in the hydrate by use of liquid CO2. Energy Conversion and Management, 2005, 46, 1680-1691.	4.4	271
6	Isothermal vapor-liquid equilibrium data for binary systems at high pressures: carbon dioxide-methanol, carbon dioxide-ethanol, carbon dioxide-1-propanol, methane-ethanol, methane-1-propanol, ethane-ethanol, and ethane-1-propanol systems. Journal of Chemical & Engineering Data, 1990, 35, 63-66.	1.0	263
7	Chemical Reactions of C1 Compounds in Near-Critical and Supercritical Water. Chemical Reviews, 2004, 104, 5803-5822.	23.0	262
8	Principles of green chemistry: PRODUCTIVELY. Green Chemistry, 2005, 7, 761.	4.6	260
9	Catalytical conversion of fructose and glucose into 5-hydroxymethylfurfural in hot compressed water by microwave heating. Catalysis Communications, 2008, 9, 2244-2249.	1.6	245
10	Efficient valorization of biomass to biofuels with bifunctional solid catalytic materials. Progress in Energy and Combustion Science, 2016, 55, 98-194.	15.8	234
11	Solid acid mediated hydrolysis of biomass for producing biofuels. Progress in Energy and Combustion Science, 2012, 38, 672-690.	15.8	226
12	The 24 Principles of Green Engineering and Green Chemistry: â€œIMPROVEMENTS PRODUCTIVELYâ€. Green Chemistry, 2008, 10, 268.	4.6	205
13	Methane recovery from methane hydrate using pressurized CO2. Fluid Phase Equilibria, 2005, 228-229, 553-559.	1.4	196
14	Sulfated zirconia as a solid acid catalyst for the dehydration of fructose to 5-hydroxymethylfurfural. Catalysis Communications, 2009, 10, 1771-1775.	1.6	171
15	Selective Conversion of <scp>D</scp>-Fructose to 5-Hydroxymethylfurfural by Ion-Exchange Resin in Acetone/Dimethyl sulfoxide Solvent Mixtures. Industrial & Engineering Chemistry Research, 2008, 47, 9234-9239.	1.8	166
16	Microstructural Evolution and Magnetic Properties of NiFe2O4Nanocrystals Dispersed in Amorphous Silica. Chemistry of Materials, 2000, 12, 3705-3714.	3.2	165
17	Thermal and chemical methods for producing zinc silicate (willemite): A review. Progress in Crystal Growth and Characterization of Materials, 2009, 55, 98-124.	1.8	161
18	Fast Transformation of Glucose and Diâ€/Polysaccharides into 5â€Hydroxymethylfurfural by Microwave Heating in an Ionic Liquid/Catalyst System. ChemSusChem, 2010, 3, 1071-1077.	3.6	157

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19	Synthesis of Nanoscale Ce1-xFexO2Solid Solutions via a Low-Temperature Approach. Journal of the American Chemical Society, 2001, 123, 11091-11092.	6.6	152
20	Acidâ€Catalyzed Dehydration of Fructose into 5â€Hydroxymethylfurfural by Celluloseâ€Derived Amorphous Carbon. ChemSusChem, 2012, 5, 2215-2220.	3.6	152
21	Reactions of d-fructose in water at temperatures up to 400Â°C and pressures up to 100MPa. Journal of Supercritical Fluids, 2007, 42, 110-119.	1.6	149
22	Black liquor-derived porous carbons from rice straw for high-performance supercapacitors. Chemical Engineering Journal, 2017, 316, 770-777.	6.6	148
23	High-yield reduction of carbon dioxide into formic acid by zero-valent metal/metal oxide redox cycles. Energy and Environmental Science, 2011, 4, 881.	15.6	138
24	High-Pressure Densities of 1-Alkyl-3-methylimidazolium Hexafluorophosphates and 1-Alkyl-3-methylimidazolium Tetrafluoroborates at Temperatures from (313 to 473) K and at Pressures up to 200 MPa. Journal of Chemical & Engineering Data, 2009, 54, 22-27.	1.0	134
25	Cellulose-derived superparamagnetic carbonaceous solid acid catalyst for cellulose hydrolysis in an ionic liquid or aqueous reaction system. Green Chemistry, 2013, 15, 2167.	4.6	133
26	Pressureâ€“volumeâ€“temperature (PVT) measurements of ionic liquids ([bmim+][PF6â^’], [bmim+][BF4â^’],) Tj ETQq0 0 0 rgBT /Overlo 2008, 264, 147-155.	1.4	131
27	Reaction kinetics of d-xylose in sub- and supercritical water. Journal of Supercritical Fluids, 2010, 55, 208-216.	1.6	129
28	Hydrolysis of cellulose over functionalized glucose-derived carbon catalyst in ionic liquid. Bioresource Technology, 2012, 116, 355-359.	4.8	126
29	Macro and microscopic CH₄â€“CO₂ replacement in CH₄ hydrate under pressurized CO₂. AIChE Journal, 2007, 53, 2715-2721.	1.8	123
30	Fatty acid production from a highly CO2 tolerant alga, Chlorocuccum littorale, in the presence of inorganic carbon and nitrate. Bioresource Technology, 2009, 100, 5237-5242.	4.8	123
31	Efficient Catalytic Conversion of Fructose into 5â€Hydroxymethylfurfural in Ionic Liquids at Room Temperature. ChemSusChem, 2009, 2, 944-946.	3.6	121
32	Heavy oil upgrading in the presence of high density water: Basic study. Journal of Supercritical Fluids, 2010, 53, 48-52.	1.6	119
33	Green chemical processes with supercritical fluids: Properties, materials, separations and energy. Journal of Supercritical Fluids, 2011, 60, 2-15.	1.6	110
34	Solubility, swelling degree and crystallinity of carbon dioxideâ€“polypropylene system. Journal of Supercritical Fluids, 2007, 40, 452-461.	1.6	103
35	Catalytic conversion of cellulose into 5-hydroxymethylfurfural in high yields via a two-step process. Cellulose, 2011, 18, 1327-1333.	2.4	103
36	Review of CO2â€“CH4 clathrate hydrate replacement reaction laboratory studies â€“ Properties and kinetics. Journal of the Taiwan Institute of Chemical Engineers, 2013, 44, 517-537.	2.7	100

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37	Cycloamination strategies for renewable N-heterocycles. Green Chemistry, 2020, 22, 582-611.	4.6	100
38	Characterization of the dispersion process for NiFe 2 O 4 nanocrystals in a silica matrix with infrared spectroscopy and electron paramagnetic resonance. Journal of Molecular Structure, 2001, 560, 87-93.	1.8	99
39	Eco-friendly Method for Efficient Conversion of Cellulose into Levulinic Acid in Pure Water with Cellulase-Mimetic Solid Acid Catalyst. ACS Sustainable Chemistry and Engineering, 2017, 5, 2421-2427.	3.2	98
40	Solubility of Lead(II) Oxide and Copper(II) Oxide in Subcritical and Supercritical Water. Journal of Chemical & Engineering Data, 1999, 44, 1422-1426.	1.0	97
41	Catalytic hydrothermal gasification of cellulose and glucose. International Journal of Hydrogen Energy, 2008, 33, 981-990.	3.8	97
42	Depolymerization of sodium alginate under hydrothermal conditions. Carbohydrate Polymers, 2010, 80, 296-302.	5.1	89
43	Adsorption of 1-Butyl-3-Methylimidazolium Chloride Ionic Liquid by Functional Carbon Microspheres from Hydrothermal Carbonization of Cellulose. Environmental Science & Technology, 2013, 47, 2792-2798.	4.6	88
44	Water gas shift reaction kinetics under noncatalytic conditions in supercritical water. Journal of Supercritical Fluids, 2004, 29, 113-119.	1.6	87
45	Efficient conversion of fructose into 5-ethoxymethylfurfural with hydrogen sulfate ionic liquids as co-solvent and catalyst. Chemical Engineering Journal, 2017, 314, 508-514.	6.6	84
46	Direct observation of cellulose dissolution in subcritical and supercritical water over a wide range of water densities (550â€“1000Âkg/m3). Cellulose, 2005, 12, 595-606.	2.4	81
47	Synergistic conversion of glucose into 5-hydroxymethylfurfural in ionic liquidâ€“water mixtures. Bioresource Technology, 2012, 109, 224-228.	4.8	80
48	Quantitative chemocatalytic production of lactic acid from glucose under anaerobic conditions at room temperature. Green Chemistry, 2017, 19, 76-81.	4.6	79
49	Black liquor-derived calcium-activated biochar for recovery of phosphate from aqueous solutions. Bioresource Technology, 2019, 294, 122198.	4.8	76
50	Dehydration of lactic acid to acrylic acid in high temperature water at high pressures. Journal of Supercritical Fluids, 2009, 50, 257-264.	1.6	73
51	Rapid separation of shikimic acid from Chinese star anise (Illicium verum Hook. f.) with hot water extraction. Separation and Purification Technology, 2009, 69, 102-108.	3.9	71
52	One-step preparation of carbonaceous solid acid catalysts by hydrothermal carbonization of glucose for cellulose hydrolysis. Catalysis Communications, 2014, 57, 50-54.	1.6	69
53	N-formyl-stabilizing quasi-catalytic species afford rapid and selective solvent-free amination of biomass-derived feedstocks. Nature Communications, 2019, 10, 699.	5.8	69
54	Catalytic decarboxylation of acetic acid with zirconia catalyst in supercritical water. Applied Catalysis A: General, 2001, 219, 149-156.	2.2	68

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55	Efficient catalytic transfer hydrogenation of biomass-based furfural to furfuryl alcohol with recycable Hf-phenylphosphonate nanohybrids. Catalysis Today, 2019, 319, 84-92.	2.2	68
56	Efficient one-pot production of 5-hydroxymethylfurfural from inulin in ionic liquids. Green Chemistry, 2010, 12, 1855.	4.6	66
57	Decentralized chemical processes with supercritical fluid technology for sustainable society. Journal of Supercritical Fluids, 2009, 47, 628-636.	1.6	64
58	Separation of cashew (Anacardium occidentaleL.) nut shell liquid with supercritical carbon dioxide. Bioresource Technology, 2003, 88, 1-7.	4.8	62
59	Phase behavior and reaction of polyethylene terephthalateâ€"water systems at pressures up to 173 MPa and temperatures up to 490Â°C. Journal of Supercritical Fluids, 1999, 15, 229-243.	1.6	61
60	Measurement and Correlation of High Pressure Densities of Ionic Liquids, 1-Ethyl-3-methylimidazolium <scp>l</scp>-Lactate ([emim][Lactate]), 2-Hydroxyethyl-trimethylammonium <scp>l</scp>-Lactate ([(C₂H₄OH)(CH₃)₃N][Lactate]), and 1-Butyl-3-methylimidazolium Chloride ([bmim][Cl]). Journal of Chemical & Engineering Data, 2011, 56, 923-928.	1.0	61
61	Binary hydrogenâ€tetrahydrofuran clathrate hydrate formation kinetics and models. AICHE Journal, 2008, 54, 3007-3016.	1.8	60
62	Densities at Pressures up to 200 MPa and Atmospheric Pressure Viscosities of Ionic Liquids 1-Ethyl-3-methylimidazolium Methylphosphate, 1-Ethyl-3-methylimidazolium Diethylphosphate, 1-Butyl-3-methylimidazolium Acetate, and 1-Butyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide. Journal of Chemical & Engineering Data, 2015, 60, 876-885.	1.0	59
63	Supercritical carbon dioxide (SC-CO2) extraction and fractionation of palm kernel oil from palm kernel as cocoa butter replacers blend. Journal of Food Engineering, 2006, 73, 210-216.	2.7	58
64	Supercritical carbon dioxide (SC-CO2) extraction of palm kernel oil from palm kernel. Journal of Food Engineering, 2007, 79, 1007-1014.	2.7	58
65	Preparation of Highly Active, Low Au-Loaded, Au/CeO2 Nanoparticle Catalysts That Promote CO Oxidation at Ambient Temperatures. Journal of Physical Chemistry C, 2010, 114, 793-798.	1.5	58
66	Techniques, applications and future prospects of diamond anvil cells for studying supercritical water systems. Journal of Supercritical Fluids, 2009, 47, 431-446.	1.6	54
67	Mg-coordinated self-assembly of MgO-doped ordered mesoporous carbons for selective recovery of phosphorus from aqueous solutions. Chemical Engineering Journal, 2021, 406, 126748.	6.6	54
68	Performance of a natural convection circulation system for supercritical fluids. Journal of Supercritical Fluids, 2005, 36, 70-80.	1.6	53
69	Measurement of High-Pressure Densities and Atmospheric Viscosities of Ionic Liquids: 1-Hexyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide and 1-Hexyl-3-methylimidazolium Chloride. Journal of Chemical & Engineering Data, 2014, 59, 709-717.	1.0	52
70	Isomerization of glucose at hydrothermal condition with TiO 2 , ZrO 2 , CaO-doped ZrO 2 or TiO 2 -doped ZrO 2. Catalysis Today, 2016, 274, 67-72.	2.2	51
71	Interfacial tension between water and high pressure CO2 in the presence of hydrocarbon surfactants. Fluid Phase Equilibria, 2007, 257, 163-168.	1.4	50
72	Effects of light intensity and temperature on photoautotrophic growth of a green microalga, Chlorococcum littorale. Biotechnology Reports (Amsterdam, Netherlands), 2015, 7, 24-29.	2.1	50

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73	Direct observation of polyvinylchloride degradation in water at temperatures up to 500Â°C and at pressures up to 700 MPa. Journal of Applied Polymer Science, 2007, 106, 1075-1086.	1.3	47
74	Blending of supercritical carbon dioxide (SC-CO2) extracted palm kernel oil fractions and palm oil to obtain cocoa butter replacers. Journal of Food Engineering, 2007, 78, 1397-1409.	2.7	47
75	Phase Equilibrium Measurements of Hydrogenâˆ’Tetrahydrofuran and Hydrogenâˆ’Cyclopentane Binary Clathrate Hydrate Systems. Journal of Chemical & Engineering Data, 2010, 55, 2214-2218.	1.0	47
76	Removal of hydrophilic ionic liquids from aqueous solutions by adsorption onto high surface area oxygenated carbonaceous material. Chemical Engineering Journal, 2014, 256, 407-414.	6.6	47
77	Perfect recycle and mechanistic role of hydrogen sulfate ionic liquids as additive in ethanol for efficient conversion of carbohydrates into 5-ethoxymethylfurfural. Chemical Engineering Journal, 2017, 323, 287-294.	6.6	47
78	Continuous supercritical hydrothermal synthesis of dispersible zero-valent copper nanoparticles for ink applications in printed electronics. Journal of Supercritical Fluids, 2014, 86, 33-40.	1.6	45
79	Porous carbonaceous materials from hydrothermal carbonization and KOH activation of corn stover for highly efficient CO₂ capture. Chemical Engineering Communications, 2018, 205, 423-431.	1.5	44
80	Phase behavior and reaction of polyethylene in supercritical water at pressures up to 2.6 GPa and temperatures up to 670Â°C. Journal of Supercritical Fluids, 2000, 16, 207-216.	1.6	43
81	Formation mechanism and luminescence appearance of Mn-doped zinc silicate particles synthesized in supercritical water. Journal of Solid State Chemistry, 2008, 181, 1307-1313.	1.4	42
82	Methodology for Replacing Dipolar Aprotic Solvents Used in API Processing with Safe Hydrogen-Bond Donor and Acceptor Solvent-Pair Mixtures. Organic Process Research and Development, 2017, 21, 114-124.	1.3	42
83	Critical assessment of reaction pathways for conversion of agricultural waste biomass into formic acid. Green Chemistry, 2021, 23, 1536-1561.	4.6	42
84	Dissolution of mechanically milled chitin in high temperature water. Carbohydrate Polymers, 2014, 106, 172-178.	5.1	41
85	Replacement of Hazardous Chemicals Used in Engineering Plastics with Safe and Renewable Hydrogen-Bond Donor and Acceptor Solvent-Pair Mixtures. ACS Sustainable Chemistry and Engineering, 2015, 3, 1881-1889.	3.2	41
86	Highâ€Performance Supercapacitor Electrode Materials from Chitosan via Hydrothermal Carbonization and Potassium Hydroxide Activation. Energy Technology, 2017, 5, 452-460.	1.8	41
87	Mechanistic role of protonated polar additives in ethanol for selective transformation of biomass-related compounds. Applied Catalysis B: Environmental, 2020, 264, 118509.	10.8	40
88	Carotenoid production from <i>Chlorococcum littorale</i> in photoautotrophic cultures with downstream supercritical fluid processing. Journal of Separation Science, 2009, 32, 2327-2335.	1.3	39
89	Nutrient recovery from municipal sludge for microalgae cultivation with two-step hydrothermal liquefaction. Algal Research, 2016, 18, 61-68.	2.4	39
90	Volumetric behavior of ethyl acetate, ethyl octanoate, ethyl laurate, ethyl linoleate, and fish oil ethyl esters in the presence of supercritical CO2. Journal of Supercritical Fluids, 1998, 13, 29-36.	1.6	38

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91	Production of organic acids from alginate in high temperature water. Journal of Supercritical Fluids, 2012, 65, 39-44.	1.6	38
92	Dissolution and recovery of cellulose from 1-butyl-3-methylimidazolium chloride in presence of water. Carbohydrate Polymers, 2013, 92, 651-658.	5.1	38
93	Analysis of the Cybotactic Region of Two Renewable Lactoneâ€"Water Mixed-Solvent Systems that Exhibit Synergistic Kamletâ€"Taft Basicity. Journal of Physical Chemistry B, 2016, 120, 4467-4481.	1.2	38
94	Synthesis of ethyl levulinate over amino-sulfonated functional carbon materials. Renewable Energy, 2020, 157, 951-958.	4.3	38
95	Destruction of deca-chlorobiphenyl in supercritical water under oxidizing conditions with and without Na2CO3. Journal of Supercritical Fluids, 2005, 33, 247-258.	1.6	37
96	Separation of palm kernel oil from palm kernel with supercritical carbon dioxide using pressure swing technique. Journal of Food Engineering, 2007, 81, 419-428.	2.7	37
97	Analysis of the density effect on partial oxidation of methane in supercritical water. Journal of Supercritical Fluids, 2004, 28, 69-77.	1.6	34
98	Measurement and correlation of infinite dilution partition coefficients of aromatic compounds in the ionic liquid 1-butyl-3-methyl-imidazolium hexafluorophosphate ([bmim][PF6])â€"CO2 system at temperatures from 313 to 353K and at pressures up to 16MPa. Journal of Supercritical Fluids, 2008, 43, 430-437.	1.6	34
99	Pressure profile separation of phenolic liquid compounds from cashew (Anacardium occidentale) shell with supercritical carbon dioxide and aspects of its phase equilibria. Journal of Supercritical Fluids, 2009, 48, 203-210.	1.6	34
100	Mechanism of Glucose Conversion into 5-Ethoxymethylfurfural in Ethanol with Hydrogen Sulfate Ionic Liquid Additives and a Lewis Acid Catalyst. Energy & Fuels, 2018, 32, 8411-8419.	2.5	33
101	Microencapsulation of red palm oil as an oil-in-water emulsion with supercritical carbon dioxide solution-enhanced dispersion. Journal of Food Engineering, 2018, 222, 100-109.	2.7	32
102	Direct one-pot synthesis of ordered mesoporous carbons from lignin with metal coordinated self-assembly. Green Chemistry, 2021, 23, 8632-8642.	4.6	32
103	Direct observation of channel-tee mixing of high-temperature and high-pressure water. Journal of Supercritical Fluids, 2007, 43, 222-227.	1.6	31
104	Effect of inorganic carbon on photoautotrophic growth of microalga <i>Chlorococcum littorale</i>. Biotechnology Progress, 2009, 25, 492-498.	1.3	31
105	Simple modification of the temperature dependence of the Sanchezâ€"Lacombe equation of state. Fluid Phase Equilibria, 2010, 297, 205-209.	1.4	31
106	Adsorption equilibria of rhodium acetylacetonate with MCM-41, MSU-H, and HMS silica substrates in supercritical carbon dioxide for preparing catalytic mesoporous materials. Journal of Supercritical Fluids, 2017, 120, 240-248.	1.6	31
107	Measurement of static dielectric constants of supercritical fluid solvents and cosolvents: Carbon dioxide and argon, carbon dioxide, and methanol at 323 K and pressures to 25 MPa. Journal of Supercritical Fluids, 1990, 3, 162-168.	1.6	30
108	Spectroscopic Analysis of Binary Mixed-Solvent-Polyimide Precursor Systems with the Preferential Solvation Model for Determining Solute-Centric Kamletâ€"Taft Solvatochromic Parameters. Journal of Physical Chemistry B, 2015, 119, 14738-14749.	1.2	30

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109	Nutrient recycle from defatted microalgae (Aurantiochytrium) with hydrothermal treatment for microalgae cultivation. Bioresource Technology, 2017, 228, 186-192.	4.8	30
110	Ferromagnetic Lignin-Derived Ordered Mesoporous Carbon for Catalytic Hydrogenation of Furfural to Furfuryl Alcohol. ACS Sustainable Chemistry and Engineering, 2020, 8, 18157-18166.	3.2	30
111	Measurements of vaporâ€“liquid equilibrium in both binary carbon dioxideâ€“ethanol and ternary carbon dioxideâ€“ethanolâ€“water systems with a newly developed flow-type apparatus. Fluid Phase Equilibria, 2015, 405, 96-100.	1.4	29
112	Antioxidation Properties and Surface Interactions of Polyvinylpyrrolidone-Capped Zerovalent Copper Nanoparticles Synthesized in Supercritical Water. ACS Applied Materials & Interfaces, 2016, 8, 1627-1634.	4.0	28
113	Solvent Polarity of Cyclic Ketone (Cyclopentanone, Cyclohexanone): Alcohol (Methanol, Ethanol) Renewable Mixed-Solvent Systems for Applications in Pharmaceutical and Chemical Processing. Industrial & Engineering Chemistry Research, 2018, 57, 7331-7344.	1.8	28
114	Effects of nitrate and oxygen on photoautotrophic lipid production from Chlorococcum littorale. Bioresource Technology, 2011, 102, 3286-3292.	4.8	27
115	Phase formation of Mn-doped zinc silicate in water at high-temperatures and high-pressures. Journal of Supercritical Fluids, 2007, 43, 214-221.	1.6	26
116	Hydrothermal separation of lignin from bark of Japanese cedar. Journal of Supercritical Fluids, 2018, 133, 696-703.	1.6	26
117	Hydrogen gas-free processes for single-step preparation of transition-metal bifunctional catalysts and one-pot Î³-valerolactone synthesis in supercritical CO2-ionic liquid systems. Journal of Supercritical Fluids, 2019, 147, 263-270.	1.6	26
118	Destruction of Decachlorobiphenyl Using Supercritical Water Oxidation. Energy & Fuels, 2004, 18, 1257-1265.	2.5	25
119	Measurement of pure hydrogen and pure carbon dioxide adsorption equilibria for THF clathrate hydrate and tetra-n-butyl ammonium bromide semi-clathrate hydrate. Fluid Phase Equilibria, 2013, 357, 80-85.	1.4	25
120	Preparation and magnetization of hematite nanocrystals with amorphous iron oxide layers by hydrothermal conditions. Materials Research Bulletin, 2002, 37, 949-955.	2.7	24
121	Formation of Î±- and Î²-phase Mn-doped zinc silicate in supercritical water and its luminescence properties at Si/(Zn+Mn) ratios from 0.25 to 1.25. Journal of Crystal Growth, 2008, 310, 4185-4189.	0.7	24
122	Measurement and modeling of CO2 solubility in [bmim]Cl â€“ [bmim][Tf2N] mixed-ionic liquids for design of versatile reaction solvents. Journal of Supercritical Fluids, 2018, 132, 42-50.	1.6	24
123	Control of methanol oxidation by ionic behavior in supercritical water. Chemical Communications, 2001, , 2270-2271.	2.2	23
124	Formation of zinc silicate in supercritical water followed with in situ synchrotron radiation X-ray diffraction. Journal of Supercritical Fluids, 2009, 49, 351-355.	1.6	23
125	A Digital Variable-Angle Rolling-Ball Viscometer for Measurement of Viscosity, Density, and Bubble-Point Pressure of CO2 and Organic Liquid Mixtures. International Journal of Thermophysics, 2010, 31, 1896-1903.	1.0	23
126	The 13 Principles of Green Chemistry and Engineering for a Greener Africa. Green Chemistry, 2011, 13, 1059.	4.6	23

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127	Viscosity reduction of celluloseÂ+Â1-butyl-3-methylimidazolium acetate in the presence of CO2. Cellulose, 2013, 20, 1353-1367.	2.4	23
128	Continuous synthesis of Zn2SiO4:Mn2+ fine particles in supercritical water at temperatures of 400â€"500Â°C and pressures of 30â€"35MPa. Journal of Supercritical Fluids, 2010, 54, 266-271.	1.6	21
129	Decomposition kinetics and recycle of binary hydrogenâ€tetrahydrofuran clathrate hydrate. AIChE Journal, 2011, 57, 265-272.	1.8	21
130	Reaction of d-glucose in water at high temperatures (410Â°C) and pressures (180MPa) for the production of dyes and nano-particles. Journal of Supercritical Fluids, 2011, 56, 41-47.	1.6	21
131	Strategies for using hydrogen-bond donor/acceptor solvent pairs in developing green chemical processes with supercritical fluids. Journal of Supercritical Fluids, 2018, 141, 182-197.	1.6	21
132	Hydrogen and carbon dioxide adsorption with tetraâ€<i>n</i>â€butyl ammonium semiâ€clathrate hydrates for gas separations. AIChE Journal, 2015, 61, 992-1003.	1.8	20
133	High pressure densities for mixed ionic liquids having different functionalities: 1-butyl-3-methylimidazolium chloride and 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. Journal of Chemical Thermodynamics, 2017, 108, 7-17.	1.0	20
134	Controlled Conversion of Proteins into High-Molecular-Weight Peptides without Additives with High-Temperature Water and Fast Heating Rates. ACS Sustainable Chemistry and Engineering, 2017, 5, 7709-7715.	3.2	20
135	Perfluorocarboxylic acid counter ion enhanced extraction of aqueous alkali metal ions with supercritical carbon dioxide. Analyst, The, 1999, 124, 1507-1511.	1.7	19
136	Coaxial probe and apparatus for measuring the dielectric spectra of high pressure liquids and supercritical fluid mixtures. Review of Scientific Instruments, 2000, 71, 4226.	0.6	19
137	Properties and phase equilibria of fluid mixtures as the basis for developing green chemical processes. Fluid Phase Equilibria, 2011, 302, 65-73.	1.4	19
138	Manganese oxide as an alternative to vanadium-based catalysts for effective conversion of glucose to formic acid in water. Green Chemistry, 2022, 24, 315-324.	4.6	19
139	Production of virgin coconut oil microcapsules from oil-in-water emulsion with supercritical carbon dioxide spray drying. Journal of Supercritical Fluids, 2017, 130, 118-124.	1.6	18
140	Bifunctional carbon Ni/NiO nanofiber catalyst based on 5-sulfosalicylic acid for conversion of C5/C6 carbohydrates into ethyl levulinate. Reaction Chemistry and Engineering, 2020, 5, 1759-1767.	1.9	18
141	Hydrothermal Leaching of LiCoO₂ with Sulfuric Acid, Nitric Acid, and Citric Acid. Kagaku Kogaku Ronbunshu, 2017, 43, 313-318.	0.1	18
142	Analysis of ionic liquid PVT behavior with a Modified Cell Model. Fluid Phase Equilibria, 2009, 281, 127-132.	1.4	17
143	Solid molar volumes of interest to supercritical extraction at 298 K: atropine, berberine hydrochloride hydrate, brucine dihydrate, capsaicin, ergotamine tartrate dihydrate, naphthalene, penicillin V, piperine, quinine, strychnine, theobromine, theophylline, and yohimbine hydrochloride. Journal of Chemical & Engineering Data, 1993, 38, 125-127.	1.0	16
144	Densities of Carbon Dioxide + Methanol Mixtures at Temperatures from 313.2 to 323.2 K and at Pressures from 10 to 20 MPa. Journal of Chemical & Engineering Data, 2002, 47, 608-612.	1.0	16

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145	Regioselectivity of phenol alkylation in supercritical water. Green Chemistry, 2002, 4, 449-451.	4.6	16
146	Copolymerization of carbon dioxide and ethyl vinyl ether at subcritical and supercritical conditions. Journal of Applied Polymer Science, 2003, 89, 3167-3174.	1.3	16
147	Preparation and Transport Properties of New Oxide Ion Conductors KNb1-xMgxO3-Î´by High Temperature and Pressure. Chemistry of Materials, 2003, 15, 889-898.	3.2	16
148	Ionic liquid structural effects on solute partitioning in biphasic ionic liquid and supercritical carbon dioxide systems. Fluid Phase Equilibria, 2010, 294, 114-120.	1.4	16
149	Solubility of flavone, 6-methoxyflavone and anthracene in supercritical CO2 with/without a co-solvent of ethanol correlated by using a newly proposed entropy-based solubility parameter. Fluid Phase Equilibria, 2016, 425, 65-71.	1.4	16
150	Solvents take control. Nature Catalysis, 2018, 1, 176-177.	16.1	16
151	A method for the calculation of gas-liquid critical temperatures and pressures of multicomponent mixtures. Industrial & Engineering Chemistry Process Design and Development, 1983, 22, 672-676.	0.6	15
152	An Effective Technique for Reading Research Articles - The Japanese KENSHU Method. Journal of Chemical Education, 1997, 74, 186.	1.1	15
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