

Richard L Smith Jr

List of Publications by Citations

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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.

258
papers

10,130
citations

55
h-index

91
g-index

278
ext. papers

11,168
ext. citations

6.1
avg, IF

6.42
L-index

#	Paper	IF	Citations
258	Catalytic dehydration of fructose into 5-hydroxymethylfurfural by ion-exchange resin in mixed-aqueous system by microwave heating. <i>Green Chemistry</i> , 2008 , 10, 799	10	318
257	Reaction chemistry and phase behavior of lignin in high-temperature and supercritical water. <i>Bioresource Technology</i> , 2008 , 99, 3424-30	11	291
256	Efficient process for conversion of fructose to 5-hydroxymethylfurfural with ionic liquids. <i>Green Chemistry</i> , 2009 , 11, 1327	10	258
255	Ultrasound-enhanced conversion of biomass to biofuels. <i>Progress in Energy and Combustion Science</i> , 2014 , 41, 56-93	33.6	257
254	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. <i>Journal of Chemical & Engineering Data</i> , 1990 , 35, 63-66	2.8	246
253	Replacement of CH ₄ in the hydrate by use of liquid CO ₂ . <i>Energy Conversion and Management</i> , 2005 , 46, 1680-1691	10.6	234
252	Chemical reactions of C(1) compounds in near-critical and supercritical water. <i>Chemical Reviews</i> , 2004 , 104, 5803-21	68.1	229
251	Catalytical conversion of fructose and glucose into 5-hydroxymethylfurfural in hot compressed water by microwave heating. <i>Catalysis Communications</i> , 2008 , 9, 2244-2249	3.2	217
250	Solid acid mediated hydrolysis of biomass for producing biofuels. <i>Progress in Energy and Combustion Science</i> , 2012 , 38, 672-690	33.6	189
249	Efficient valorization of biomass to biofuels with bifunctional solid catalytic materials. <i>Progress in Energy and Combustion Science</i> , 2016 , 55, 98-194	33.6	181
248	Methane recovery from methane hydrate using pressurized CO ₂ . <i>Fluid Phase Equilibria</i> , 2005 , 228-229, 553-559	2.5	161
247	Sulfated zirconia as a solid acid catalyst for the dehydration of fructose to 5-hydroxymethylfurfural. <i>Catalysis Communications</i> , 2009 , 10, 1771-1775	3.2	158
246	Selective Conversion of D-Fructose to 5-Hydroxymethylfurfural by Ion-Exchange Resin in Acetone/Dimethyl sulfoxide Solvent Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 9234-9239	3.9	149
245	Microstructural Evolution and Magnetic Properties of NiFe ₂ O ₄ Nanocrystals Dispersed in Amorphous Silica. <i>Chemistry of Materials</i> , 2000 , 12, 3705-3714	9.6	144
244	Thermal and chemical methods for producing zinc silicate (willemite): A review. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2009 , 55, 98-124	3.5	138
243	Reactions of d-fructose in water at temperatures up to 400°C and pressures up to 100MPa. <i>Journal of Supercritical Fluids</i> , 2007 , 42, 110-119	4.2	137
242	Acid-catalyzed dehydration of fructose into 5-hydroxymethylfurfural by cellulose-derived amorphous carbon. <i>ChemSusChem</i> , 2012 , 5, 2215-20	8.3	136

241	Fast transformation of glucose and di-/polysaccharides into 5-hydroxymethylfurfural by microwave heating in an ionic liquid/catalyst system. <i>ChemSusChem</i> , 2010 , 3, 1071-7	8.3	136
240	Synthesis of nanoscale Ce(1-x)Fe(x)O(2) solid solutions via a low-temperature approach. <i>Journal of the American Chemical Society</i> , 2001 , 123, 11091-2	16.4	133
239	Pressure-Volume-Temperature (PVT) measurements of ionic liquids ([bmim+][PF6], [bmim+][BF4], [bmim+][OCSO4]) and analysis with the Sanchez-Lacombe equation of state. <i>Fluid Phase Equilibria</i> , 2008 , 264, 147-155	2.5	125
238	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. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 22-27	2.8	124
237	Cellulose-derived superparamagnetic carbonaceous solid acid catalyst for cellulose hydrolysis in an ionic liquid or aqueous reaction system. <i>Green Chemistry</i> , 2013 , 15, 2167	10	116
236	Efficient catalytic conversion of fructose into 5-hydroxymethylfurfural in ionic liquids at room temperature. <i>ChemSusChem</i> , 2009 , 2, 944-6	8.3	113
235	Hydrolysis of cellulose over functionalized glucose-derived carbon catalyst in ionic liquid. <i>Bioresource Technology</i> , 2012 , 116, 355-9	11	112
234	Reaction kinetics of d-xylose in sub- and supercritical water. <i>Journal of Supercritical Fluids</i> , 2010 , 55, 208-216	4.16	111
233	High-yield reduction of carbon dioxide into formic acid by zero-valent metal/metal oxide redox cycles. <i>Energy and Environmental Science</i> , 2011 , 4, 881	35.4	110
232	Fatty acid production from a highly CO ₂ tolerant alga, <i>Chlorococcum littorale</i> , in the presence of inorganic carbon and nitrate. <i>Bioresource Technology</i> , 2009 , 100, 5237-42	11	106
231	Macro and microscopic CH ₄ -CO ₂ replacement in CH ₄ hydrate under pressurized CO ₂ . <i>AIChE Journal</i> , 2007 , 53, 2715-2721	3.6	106
230	Heavy oil upgrading in the presence of high density water: Basic study. <i>Journal of Supercritical Fluids</i> , 2010 , 53, 48-52	4.2	102
229	Black liquor-derived porous carbons from rice straw for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2017 , 316, 770-777	14.7	99
228	Characterization of the dispersion process for NiFe ₂ O ₄ nanocrystals in a silica matrix with infrared spectroscopy and electron paramagnetic resonance. <i>Journal of Molecular Structure</i> , 2001 , 560, 87-93	3.4	93
227	Green chemical processes with supercritical fluids: Properties, materials, separations and energy. <i>Journal of Supercritical Fluids</i> , 2011 , 60, 2-15	4.2	92
226	Catalytic conversion of cellulose into 5-hydroxymethylfurfural in high yields via a two-step process. <i>Cellulose</i> , 2011 , 18, 1327-1333	5.5	90
225	Solubility, swelling degree and crystallinity of carbon dioxide-polypropylene system. <i>Journal of Supercritical Fluids</i> , 2007 , 40, 452-461	4.2	88
224	Review of CO ₂ -CH ₄ clathrate hydrate replacement reaction laboratory studies [Properties and kinetics. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013 , 44, 517-537	5.3	87

223	Catalytic hydrothermal gasification of cellulose and glucose. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 981-990	6.7	87
222	Solubility of Lead(II) Oxide and Copper(II) Oxide in Subcritical and Supercritical Water. <i>Journal of Chemical & Engineering Data</i> , 1999 , 44, 1422-1426	2.8	87
221	Water gas shift reaction kinetics under noncatalytic conditions in supercritical water. <i>Journal of Supercritical Fluids</i> , 2004 , 29, 113-119	4.2	84
220	Eco-friendly Method for Efficient Conversion of Cellulose into Levulinic Acid in Pure Water with Cellulase-Mimetic Solid Acid Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2421-2427	8.3	81
219	Adsorption of 1-butyl-3-methylimidazolium chloride ionic liquid by functional carbon microspheres from hydrothermal carbonization of cellulose. <i>Environmental Science & Technology</i> , 2013 , 47, 2792-8 ^{10.3}	10.3	80
218	Synergistic conversion of glucose into 5-hydroxymethylfurfural in ionic liquid-water mixtures. <i>Bioresource Technology</i> , 2012 , 109, 224-8	11	71
217	Direct observation of cellulose dissolution in subcritical and supercritical water over a wide range of water densities (550-1000 kg/m ³). <i>Cellulose</i> , 2005 , 12, 595-606	5.5	67
216	Depolymerization of sodium alginate under hydrothermal conditions. <i>Carbohydrate Polymers</i> , 2010 , 80, 296-302	10.3	66
215	Dehydration of lactic acid to acrylic acid in high temperature water at high pressures. <i>Journal of Supercritical Fluids</i> , 2009 , 50, 257-264	4.2	65
214	Efficient conversion of fructose into 5-ethoxymethylfurfural with hydrogen sulfate ionic liquids as co-solvent and catalyst. <i>Chemical Engineering Journal</i> , 2017 , 314, 508-514	14.7	64
213	Rapid separation of shikimic acid from Chinese star anise (<i>Illicium verum</i> Hook. f.) with hot water extraction. <i>Separation and Purification Technology</i> , 2009 , 69, 102-108	8.3	63
212	Catalytic decarboxylation of acetic acid with zirconia catalyst in supercritical water. <i>Applied Catalysis A: General</i> , 2001 , 219, 149-156	5.1	61
211	Measurement and Correlation of High Pressure Densities of Ionic Liquids, 1-Ethyl-3-methylimidazolium L-Lactate ([emim][Lactate]), 2-Hydroxyethyl-trimethylammonium L-Lactate ([[(C ₂ H ₄ OH)(CH ₃) ₃ N][Lactate]], and 1-Butyl-3-methylimidazolium Chloride ([bmim][Cl]). <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 923-928	2.8	58
210	Decentralized chemical processes with supercritical fluid technology for sustainable society. <i>Journal of Supercritical Fluids</i> , 2009 , 47, 628-636	4.2	58
209	Efficient one-pot production of 5-hydroxymethylfurfural from inulin in ionic liquids. <i>Green Chemistry</i> , 2010 , 12, 1855	10	57
208	Separation of cashew (<i>Anacardium occidentale</i> L.) nut shell liquid with supercritical carbon dioxide. <i>Bioresource Technology</i> , 2003 , 88, 1-7	11	56
207	Quantitative chemocatalytic production of lactic acid from glucose under anaerobic conditions at room temperature. <i>Green Chemistry</i> , 2017 , 19, 76-81	10	56
206	Preparation of Highly Active, Low Au-Loaded, Au/CeO ₂ Nanoparticle Catalysts That Promote CO Oxidation at Ambient Temperatures. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 793-798	3.8	55

205	One-step preparation of carbonaceous solid acid catalysts by hydrothermal carbonization of glucose for cellulose hydrolysis. <i>Catalysis Communications</i> , 2014 , 57, 50-54	3.2	54
204	Phase behavior and reaction of polyethylene terephthalate-water systems at pressures up to 173 MPa and temperatures up to 490°C. <i>Journal of Supercritical Fluids</i> , 1999 , 15, 229-243	4.2	51
203	Cycloamination strategies for renewable N-heterocycles. <i>Green Chemistry</i> , 2020 , 22, 582-611	10	51
202	Supercritical carbon dioxide (SC-CO ₂) extraction and fractionation of palm kernel oil from palm kernel as cocoa butter replacers blend. <i>Journal of Food Engineering</i> , 2006 , 73, 210-216	6	50
201	Techniques, applications and future prospects of diamond anvil cells for studying supercritical water systems. <i>Journal of Supercritical Fluids</i> , 2009 , 47, 431-446	4.2	49
200	Supercritical carbon dioxide (SC-CO ₂) extraction of palm kernel oil from palm kernel. <i>Journal of Food Engineering</i> , 2007 , 79, 1007-1014	6	47
199	Binary hydrogen-tetrahydrofuran clathrate hydrate formation kinetics and models. <i>AIChE Journal</i> , 2008 , 54, 3007-3016	3.6	47
198	Performance of a natural convection circulation system for supercritical fluids. <i>Journal of Supercritical Fluids</i> , 2005 , 36, 70-80	4.2	47
197	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	2.8	46
196	Bis(trifluoromethylsulfonyl)imide. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 876-885 Measurement of High-Pressure Densities and Atmospheric Viscosities of Ionic Liquids: 1-Hexyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide and 1-Hexyl-3-methylimidazolium Chloride. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 709-717	2.8	44
195	Efficient catalytic transfer hydrogenation of biomass-based furfural to furfuryl alcohol with recycable Hf-phenylphosphonate nanohybrids. <i>Catalysis Today</i> , 2019 , 319, 84-92	5.3	44
194	Removal of hydrophilic ionic liquids from aqueous solutions by adsorption onto high surface area oxygenated carbonaceous material. <i>Chemical Engineering Journal</i> , 2014 , 256, 407-414	14.7	43
193	Interfacial tension between water and high pressure CO ₂ in the presence of hydrocarbon surfactants. <i>Fluid Phase Equilibria</i> , 2007 , 257, 163-168	2.5	41
192	Formation mechanism and luminescence appearance of Mn-doped zinc silicate particles synthesized in supercritical water. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 1307-1313	3.3	40
191	Phase behavior and reaction of polyethylene in supercritical water at pressures up to 2.6 GPa and temperatures up to 670°C. <i>Journal of Supercritical Fluids</i> , 2000 , 16, 207-216	4.2	39
190	Effects of light intensity and temperature on photoautotrophic growth of a green microalga,. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015 , 7, 24-29	5.3	38
189	N-formyl-stabilizing quasi-catalytic species afford rapid and selective solvent-free amination of biomass-derived feedstocks. <i>Nature Communications</i> , 2019 , 10, 699	17.4	37
188	Replacement of Hazardous Chemicals Used in Engineering Plastics with Safe and Renewable Hydrogen-Bond Donor and Acceptor Solvent-Pair Mixtures. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1881-1889	8.3	37

- 187 Black liquor-derived calcium-activated biochar for recovery of phosphate from aqueous solutions. *Bioresource Technology*, **2019**, 294, 122198 11 37
- 186 Carotenoid production from *Chlorococcum littorale* in photoautotrophic cultures with downstream supercritical fluid processing. *Journal of Separation Science*, **2009**, 32, 2327-35 3-4 37
- 185 Continuous supercritical hydrothermal synthesis of dispersible zero-valent copper nanoparticles for ink applications in printed electronics. *Journal of Supercritical Fluids*, **2014**, 86, 33-40 4-2 36
- 184 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 4-2 36
- 183 Isomerization of glucose at hydrothermal condition with TiO₂, ZrO₂, CaO-doped ZrO₂ or TiO₂-doped ZrO₂. *Catalysis Today*, **2016**, 274, 67-72 5-3 35
- 182 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 6 35
- 181 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 14-7 34
- 180 Dissolution of mechanically milled chitin in high temperature water. *Carbohydrate Polymers*, **2014**, 106, 172-8 10-3 34
- 179 Production of organic acids from alginate in high temperature water. *Journal of Supercritical Fluids*, **2012**, 65, 39-44 4-2 34
- 178 Dissolution and recovery of cellulose from 1-butyl-3-methylimidazolium chloride in presence of water. *Carbohydrate Polymers*, **2013**, 92, 651-8 10-3 34
- 177 Destruction of deca-chlorobiphenyl in supercritical water under oxidizing conditions with and without Na₂CO₃. *Journal of Supercritical Fluids*, **2005**, 33, 247-258 4-2 34
- 176 Nutrient recovery from municipal sludge for microalgae cultivation with two-step hydrothermal liquefaction. *Algal Research*, **2016**, 18, 61-68 5 33
- 175 Measurement and correlation of infinite dilution partition coefficients of aromatic compounds in the ionic liquid 1-butyl-3-methyl-imidazolium hexafluorophosphate ([bmim][PF₆])/CO₂ system at temperatures from 313 to 353K and at pressures up to 16MPa. *Journal of Supercritical Fluids*, **2008**, 43, 430-437 4-2 33
- 174 Analysis of the Cybotactic Region of Two Renewable Lactone-Water Mixed-Solvent Systems that Exhibit Synergistic Kamlet-Taft Basicity. *Journal of Physical Chemistry B*, **2016**, 120, 4467-81 3-4 33
- 173 Phase Equilibrium Measurements of Hydrogen/Tetrahydrofuran and Hydrogen/Cyclopentane Binary Clathrate Hydrate Systems. *Journal of Chemical & Engineering Data*, **2010**, 55, 2214-2218 2.8 32
- 172 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 3-9 31
- 171 Simple modification of the temperature dependence of the Sanchez-Lacombe equation of state. *Fluid Phase Equilibria*, **2010**, 297, 205-209 2.5 31
- 170 Separation of palm kernel oil from palm kernel with supercritical carbon dioxide using pressure swing technique. *Journal of Food Engineering*, **2007**, 81, 419-428 6 31

169	High-Performance Supercapacitor Electrode Materials from Chitosan via Hydrothermal Carbonization and Potassium Hydroxide Activation. <i>Energy Technology</i> , 2017 , 5, 452-460	3.5	30
168	Pressure profile separation of phenolic liquid compounds from cashew (<i>Anacardium occidentale</i>) shell with supercritical carbon dioxide and aspects of its phase equilibria. <i>Journal of Supercritical Fluids</i> , 2009 , 48, 203-210	4.2	30
167	Effect of inorganic carbon on photoautotrophic growth of microalga <i>Chlorococcum littorale</i> . <i>Biotechnology Progress</i> , 2009 , 25, 492-8	2.8	29
166	Direct observation of polyvinylchloride degradation in water at temperatures up to 500°C and at pressures up to 700 MPa. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 1075-1086	2.9	28
165	Porous carbonaceous materials from hydrothermal carbonization and KOH activation of corn stover for highly efficient CO ₂ capture. <i>Chemical Engineering Communications</i> , 2018 , 205, 423-431	2.2	27
164	Direct observation of channel-tee mixing of high-temperature and high-pressure water. <i>Journal of Supercritical Fluids</i> , 2007 , 43, 222-227	4.2	27
163	Analysis of the density effect on partial oxidation of methane in supercritical water. <i>Journal of Supercritical Fluids</i> , 2004 , 28, 69-77	4.2	27
162	Effects of nitrate and oxygen on photoautotrophic lipid production from <i>Chlorococcum littorale</i> . <i>Bioresource Technology</i> , 2011 , 102, 3286-92	11	26
161	Antioxidation Properties and Surface Interactions of Polyvinylpyrrolidone-Capped Zerovalent Copper Nanoparticles Synthesized in Supercritical Water. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1627-34	9.5	25
160	Mechanism of Glucose Conversion into 5-Ethoxymethylfurfural in Ethanol with Hydrogen Sulfate Ionic Liquid Additives and a Lewis Acid Catalyst. <i>Energy & Fuels</i> , 2018 , 32, 8411-8419	4.1	24
159	Phase formation of Mn-doped zinc silicate in water at high-temperatures and high-pressures. <i>Journal of Supercritical Fluids</i> , 2007 , 43, 214-221	4.2	24
158	Spectroscopic Analysis of Binary Mixed-Solvent-Polyimide Precursor Systems with the Preferential Solvation Model for Determining Solute-Centric Kamlet-Taft Solvatochromic Parameters. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 14738-49	3.4	23
157	Destruction of Decachlorobiphenyl Using Supercritical Water Oxidation. <i>Energy & Fuels</i> , 2004 , 18, 1257-1265	4.1	23
156	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. <i>Journal of Supercritical Fluids</i> , 1990 , 3, 162-168	4.2	23
155	Measurements of vapor-liquid equilibrium in both binary carbon dioxide-ethanol and ternary carbon dioxide-ethanol-water systems with a newly developed flow-type apparatus. <i>Fluid Phase Equilibria</i> , 2015 , 405, 96-100	2.5	22
154	Preparation and magnetization of hematite nanocrystals with amorphous iron oxide layers by hydrothermal conditions. <i>Materials Research Bulletin</i> , 2002 , 37, 949-955	5.1	22
153	Control of methanol oxidation by ionic behavior in supercritical water. <i>Chemical Communications</i> , 2001 , 2270-1	5.8	22
152	Mechanistic role of protonated polar additives in ethanol for selective transformation of biomass-related compounds. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118509	21.8	22

151	Formation of zinc silicate in supercritical water followed with in situ synchrotron radiation X-ray diffraction. <i>Journal of Supercritical Fluids</i> , 2009 , 49, 351-355	4.2	21
150	Formation of β and β' phase Mn-doped zinc silicate in supercritical water and its luminescence properties at Si/(Zn+Mn) ratios from 0.25 to 1.25. <i>Journal of Crystal Growth</i> , 2008 , 310, 4185-4189	1.6	21
149	Nutrient recycle from defatted microalgae (<i>Aurantiochytrium</i>) with hydrothermal treatment for microalgae cultivation. <i>Bioresource Technology</i> , 2017 , 228, 186-192	11	20
148	Viscosity reduction of cellulose + 1-butyl-3-methylimidazolium acetate in the presence of CO ₂ . <i>Cellulose</i> , 2013 , 20, 1353-1367	5.5	20
147	Adsorption equilibria of rhodium acetylacetonate with MCM-41, MSU-H, and HMS silica substrates in supercritical carbon dioxide for preparing catalytic mesoporous materials. <i>Journal of Supercritical Fluids</i> , 2017 , 120, 240-248	4.2	20
146	A Digital Variable-Angle Rolling-Ball Viscometer for Measurement of Viscosity, Density, and Bubble-Point Pressure of CO ₂ and Organic Liquid Mixtures. <i>International Journal of Thermophysics</i> , 2010 , 31, 1896-1903	2.1	20
145	Continuous synthesis of Zn ₂ SiO ₄ :Mn ²⁺ fine particles in supercritical water at temperatures of 400-500°C and pressures of 30-5 MPa. <i>Journal of Supercritical Fluids</i> , 2010 , 54, 266-271	4.2	20
144	Synthesis of ethyl levulinate over amino-sulfonated functional carbon materials. <i>Renewable Energy</i> , 2020 , 157, 951-958	8.1	19
143	Measurement of pure hydrogen and pure carbon dioxide adsorption equilibria for THF clathrate hydrate and tetra-n-butyl ammonium bromide semi-clathrate hydrate. <i>Fluid Phase Equilibria</i> , 2013 , 357, 80-85	2.5	19
142	Properties and phase equilibria of fluid mixtures as the basis for developing green chemical processes. <i>Fluid Phase Equilibria</i> , 2011 , 302, 65-73	2.5	19
141	Microencapsulation of red palm oil as an oil-in-water emulsion with supercritical carbon dioxide solution-enhanced dispersion. <i>Journal of Food Engineering</i> , 2018 , 222, 100-109	6	19
140	Solvent Polarity of Cyclic Ketone (Cyclopentanone, Cyclohexanone): Alcohol (Methanol, Ethanol) Renewable Mixed-Solvent Systems for Applications in Pharmaceutical and Chemical Processing. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 7331-7344	3.9	19
139	Measurement and modeling of CO ₂ solubility in [bmim]Cl [bmim][Tf ₂ N] mixed-ionic liquids for design of versatile reaction solvents. <i>Journal of Supercritical Fluids</i> , 2018 , 132, 42-50	4.2	18
138	Hydrothermal separation of lignin from bark of Japanese cedar. <i>Journal of Supercritical Fluids</i> , 2018 , 133, 696-703	4.2	17
137	Analysis of ionic liquid PVT behavior with a Modified Cell Model. <i>Fluid Phase Equilibria</i> , 2009 , 281, 127-132	5	17
136	Perfluorocarboxylic acid counter ion enhanced extraction of aqueous alkali metal ions with supercritical carbon dioxide. <i>Analyst</i> , 1999 , 124, 1507-1511	5	17
135	Decomposition kinetics and recycle of binary hydrogen-tetrahydrofuran clathrate hydrate. <i>AICHE Journal</i> , 2011 , 57, 265-272	3.6	16
134	Ionic liquid structural effects on solute partitioning in biphasic ionic liquid and supercritical carbon dioxide systems. <i>Fluid Phase Equilibria</i> , 2010 , 294, 114-120	2.5	16

133	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. <i>Journal of Chemical & Engineering Data</i> , 1993 , 38, 125-127	2.8	16
132	High pressure densities for mixed ionic liquids having different functionalities: 1-butyl-3-methylimidazolium chloride and 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Journal of Chemical Thermodynamics</i> , 2017 , 108, 7-17	2.9	15
131	Reaction of d-glucose in water at high temperatures (410 °C) and pressures (180 MPa) for the production of dyes and nano-particles. <i>Journal of Supercritical Fluids</i> , 2011 , 56, 41-47	4.2	15
130	Regioselectivity of phenol alkylation in supercritical water. <i>Green Chemistry</i> , 2002 , 4, 449-451	10	15
129	Coaxial probe and apparatus for measuring the dielectric spectra of high pressure liquids and supercritical fluid mixtures. <i>Review of Scientific Instruments</i> , 2000 , 71, 4226	1.7	15
128	Hydrogen gas-free processes for single-step preparation of transition-metal bifunctional catalysts and one-pot valerolactone synthesis in supercritical CO ₂ -ionic liquid systems. <i>Journal of Supercritical Fluids</i> , 2019 , 147, 263-270	4.2	15
127	Hydrogen and carbon dioxide adsorption with tetra-n-butyl ammonium semi-clathrate hydrates for gas separations. <i>AIChE Journal</i> , 2015 , 61, 992-1003	3.6	14
126	Infinite dilution partition coefficients of benzene derivative compounds in supercritical carbon dioxide+ionic liquid systems: 1-butyl-3-methylimidazolium chloride [bmim][Cl], 1-butyl-3-methylimidazolium acetate [bmim][Ac] and 1-butyl-3-methylimidazolium octylsulfate [bmim][OS]. <i>Journal of Chemical Thermodynamics</i> , 2017 , 104, 73-81	4.2	14
125	Controlled Conversion of Proteins into High-Molecular-Weight Peptides without Additives with High-Temperature Water and Fast Heating Rates. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7709-7715	8.3	14
124	Production of virgin coconut oil microcapsules from oil-in-water emulsion with supercritical carbon dioxide spray drying. <i>Journal of Supercritical Fluids</i> , 2017 , 130, 118-124	4.2	14
123	Measurement of high pressure densities and atmospheric pressure viscosities of alkyl phosphate anion ionic liquids and correlation with the β -modified Sanchez-Lacombe equation of state. <i>Journal of Chemical Thermodynamics</i> , 2017 , 104, 73-81	2.9	14
122	Local density augmentation around acetophenone N,N,N',N'-tetramethylbenzidine exciplex in supercritical water. <i>Chemical Physics Letters</i> , 2004 , 393, 31-35	2.5	14
121	A method for the calculation of gas-liquid critical temperatures and pressures of multicomponent mixtures. <i>Industrial & Engineering Chemistry Process Design and Development</i> , 1983 , 22, 672-676		14
120	Hydrothermal Leaching of LiCoO ₂ with Sulfuric Acid, Nitric Acid, and Citric Acid. <i>Kagaku Kogaku Ronbunshu</i> , 2017 , 43, 313-318	0.4	14
119	Does Synergism in Microscopic Polarity Correlate with Extrema in Macroscopic Properties for Aqueous Mixtures of Dipolar Aprotic Solvents?. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 6033-6041	3.4	13
118	Fractionation of hops-extract-ethanol solutions using dense CO ₂ with a counter-current extraction column. <i>Journal of Supercritical Fluids</i> , 2018 , 136, 37-43	4.2	13
117	Measurement and correlation of supercritical CO ₂ and ionic liquid systems for design of advanced unit operations. <i>Frontiers of Chemical Engineering in China</i> , 2009 , 3, 12-19		13
116	Restructuring mechanism of NbO ₆ octahedrons in the crystallization of KNbO ₃ in supercritical water. <i>Journal of Supercritical Fluids</i> , 2011 , 58, 279-285	4.2	13

115	Temperature dependence of dielectric spectra of carbon dioxide and methanol mixtures at high-pressures. <i>Fluid Phase Equilibria</i> , 2002 , 194-197, 869-877	2.5	13
114	Reactive phase behavior of aluminum nitrate in high temperature and supercritical water. <i>Hydrometallurgy</i> , 2002 , 65, 159-175	4	13
113	Energy integration of methane's partial-oxidation in supercritical water and exergy analysis. <i>Applied Energy</i> , 2002 , 71, 205-214	10.7	13
112	Copolymerization of carbon dioxide and ethyl vinyl ether at subcritical and supercritical conditions. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 3167-3174	2.9	13
111	Winterization of Vegetable Oil Blends for Biodiesel Fuels and Correlation Based on Initial Saturated Fatty Acid Constituents. <i>Energy & Fuels</i> , 2016 , 30, 4841-4847	4.1	13
110	Mg-coordinated self-assembly of MgO-doped ordered mesoporous carbons for selective recovery of phosphorus from aqueous solutions. <i>Chemical Engineering Journal</i> , 2021 , 406, 126748	14.7	13
109	Critical assessment of reaction pathways for conversion of agricultural waste biomass into formic acid. <i>Green Chemistry</i> , 2021 , 23, 1536-1561	10	13
108	Aspects of solvent polarity and solvent properties in developing efficient systems for processing biomass with ionic liquid mixtures and supercritical CO ₂ . <i>Journal of Supercritical Fluids</i> , 2018 , 134, 12-20	4.2	12
107	Preparation and Transport Properties of New Oxide Ion Conductors KNb _{1-x} Mg _x O ₃ -By High Temperature and Pressure. <i>Chemistry of Materials</i> , 2003 , 15, 889-898	9.6	12
106	Strategies for using hydrogen-bond donor/acceptor solvent pairs in developing green chemical processes with supercritical fluids. <i>Journal of Supercritical Fluids</i> , 2018 , 141, 182-197	4.2	12
105	Viscosity and density of poly(ethylene glycol) and its solution with carbon dioxide at 353.2K and 373.2K at pressures up to 15MPa. <i>Journal of Supercritical Fluids</i> , 2015 , 97, 63-73	4.2	11
104	Measurement and Correlation of High-Pressure Densities and Atmospheric Viscosities of Ionic Liquids: 1-Butyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide), 1-Allyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide, 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide. <i>Journal of Supercritical Fluids</i> , 2019 , 160, 105-113	2.8	11
103	Solubility of flavone, 6-methoxyflavone and anthracene in supercritical CO ₂ with/without a co-solvent of ethanol correlated by using a newly proposed entropy-based solubility parameter. <i>Fluid Phase Equilibria</i> , 2016 , 425, 65-71	2.5	11
102	Crystallization trigger of Mn-doped zinc silicate in supercritical water via Zn, Mn, Si sources and complexing agent ethylenediamine tetraacetic acid. <i>Materials Chemistry and Physics</i> , 2010 , 121, 330-334	4.4	11
101	An Effective Technique for Reading Research Articles - The Japanese KENSHU Method. <i>Journal of Chemical Education</i> , 1997 , 74, 186	2.4	11
100	Temperature dependence of local density augmentation for acetophenone N,N,N',N'-tetramethylbenzidine exciplex in supercritical water. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 7353-8	2.8	11
99	Quantitative extraction of aqueous alkali metal ions using supercritical carbon dioxide and polyethylene glycol ligands. <i>Chemical Communications</i> , 2000 , 1381-1382	5.8	11
98	Supercritical fluid extraction of alkali metal ions using crown ethers with perfluorocarboxylic acid from aqueous solution. <i>Analytical Communications</i> , 1999 , 36, 51-52		11

97	The critical temperatures of isomeric pentanols and heptanols. <i>Fluid Phase Equilibria</i> , 1986 , 31, 161-170	2.5	11
96	Reduction of gelatinization temperatures of starch blend suspensions with supercritical CO ₂ treatment. <i>Journal of Supercritical Fluids</i> , 2014 , 95, 499-505	4.2	10
95	Variation of photoautotrophic fatty acid production from a highly CO ₂ tolerant alga, <i>Chlorococcum littorale</i> , with inorganic carbon over narrow ranges of pH. <i>Biotechnology Progress</i> , 2015 , 31, 1053-7	2.8	10
94	Proton concentration of supercritical water and high-concentrated carbon dioxide mixture using UV-Vis spectroscopy. <i>Fluid Phase Equilibria</i> , 2007 , 257, 177-182	2.5	10
93	Local density augmentation from fluorescence lifetime for anthracene N,N-dimethylaniline exciplex in supercritical carbon dioxide. <i>Chemical Physics Letters</i> , 2002 , 357, 168-172	2.5	10
92	Densities of Carbon Dioxide + Methanol Mixtures at Temperatures from 313.2 to 323.2 K and at Pressures from 10 to 20 MPa. <i>Journal of Chemical & Engineering Data</i> , 2002 , 47, 608-612	2.8	10
91	Application of Cubic Equations of State to Polar Fluids and Fluid Mixtures. <i>ACS Symposium Series</i> , 1986 , 434-451	0.4	10
90	Vapor-liquid distribution coefficients of hops extract in high pressure CO ₂ and ethanol mixtures and data correlation with entropy-based solubility parameters. <i>Fluid Phase Equilibria</i> , 2017 , 434, 44-48	2.5	9
89	Development of a simple method for predicting CO ₂ enhancement of H ₂ gas solubility in ionic liquids. <i>Journal of Supercritical Fluids</i> , 2015 , 96, 162-170	4.2	9
88	Complete dechlorination of lindane over N-doped porous carbon supported Pd catalyst at room temperature and atmospheric pressure. <i>Science of the Total Environment</i> , 2020 , 719, 137534	10.2	9
87	Historical Background and Applications. <i>Supercritical Fluid Science and Technology</i> , 2013 , 4, 175-273		9
86	Correlation of supercritical CO ₂ /nic liquid vapor-liquid equilibria with the β -modified Sanchez-Lacombe equation of state. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012 , 7, S95-S100	1.3	9
85	An easy to construct, economical, safe, high-pressure magnetic pump for pressures to 140 MPa suitable for circulation of supercritical fluids. <i>Review of Scientific Instruments</i> , 1990 , 61, 2474-2475	1.7	9
84	High-pressure vapor-liquid equilibrium data of the 10-component system hydrogen, carbon monoxide, carbon dioxide, water, methane, ethane, propane, methanol, ethanol, and 1-propanol at 313.4 and 333.4 K. <i>Journal of Chemical & Engineering Data</i> , 1990 , 35, 67-69	2.8	9
83	Fundamentals of Acoustic Cavitation in Sonochemistry. <i>Biofuels and Biorefineries</i> , 2015 , 3-33	0.3	9
82	Easy emission-color-control of Mn-doped zinc silicate phosphor by use of pH and supercritical water conditions. <i>Journal of Supercritical Fluids</i> , 2015 , 98, 65-69	4.2	8
81	Separation factors for [amim]Cl/CO ₂ biphasic systems from high pressure density and partition coefficient measurements. <i>Separation and Purification Technology</i> , 2015 , 155, 139-148	8.3	8
80	Thermal analysis and mechanism of β -Zn ₂ SiO ₄ :Mn ²⁺ formation from zinc oxalate dihydrate under hydrothermal conditions. <i>Materials Chemistry and Physics</i> , 2013 , 137, 1025-1030	4.4	8

79	Prediction and correlation of triglyceride-solvent solid-liquid equilibria with activity coefficient models. <i>Fluid Phase Equilibria</i> , 1998 , 145, 53-68	2.5	8
78	Laser-Doppler vibrating tube densimeter for measurements at high temperatures and pressures. <i>Review of Scientific Instruments</i> , 2007 , 78, 115111	1.7	8
77	Motsu-window optical cell for absorption and emission studies of high-pressure liquids and supercritical fluids. <i>Journal of Supercritical Fluids</i> , 2004 , 29, 313-317	4.2	8
76	New equation of state based on the significant structure model. <i>Fluid Phase Equilibria</i> , 1989 , 47, 17-38	2.5	8
75	Correspondence between Spectral-Derived and Viscosity-Derived Local Composition in Binary Liquid Mixtures Having Specific Interactions with Preferential Solvation Theory. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 10894-10906	3.4	8
74	Synthesis of alkali niobate $K_{1-x}Na_xNbO_3$ nanoparticles using a supercritical water flow system. <i>Journal of Supercritical Fluids</i> , 2016 , 107, 1-8	4.2	7
73	Hydrolysis of cellulose to produce glucose with solid acid catalysts in 1-butyl-3-methyl-imidazolium chloride ([bmim][Cl]) with sequential water addition. <i>Biomass Conversion and Biorefinery</i> , 2014 , 4, 323-331	3.3	7
72	Production of d-glucose from pseudo paper sludge with hydrothermal treatment. <i>Biomass and Bioenergy</i> , 2010 , 34, 844-850	5.3	7
71	Phase equilibria in the n-hexane + diethylamine system. <i>Fluid Phase Equilibria</i> , 1985 , 23, 79-88	2.5	7
70	Bifunctional carbon Ni/NiO nanofiber catalyst based on 5-sulfosalicylic acid for conversion of C5/C6 carbohydrates into ethyl levulinate. <i>Reaction Chemistry and Engineering</i> , 2020 , 5, 1759-1767	4.9	7
69	Predictive dimensionless solubility (pDS) model for solid solutes in supercritical CO ₂ that requires only pure-component physical properties. <i>Chemical Engineering Research and Design</i> , 2018 , 136, 251-261	5.5	6
68	Predictive Framework for Estimating Dipolarity/Polarizability of Binary Nonpolar/Polar Mixtures with Relative Normalized Absorption Wavelength and Gas-Phase Dipole Moment. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 18986-18996	3.9	6
67	Partition coefficients of furan derivative compounds in 1-n-butyl-3-methylimidazolium chloride ([bmim][Cl]) supercritical CO ₂ biphasic systems and their correlation and prediction with the LSER- Π model. <i>Journal of Supercritical Fluids</i> , 2013 , 79, 32-40	4.2	6
66	Continuous hydrothermal synthesis of ZnGa ₂ O ₄ :Mn ²⁺ nanoparticles at temperatures of 300-400°C and pressures of 25-55 MPa. <i>Journal of Supercritical Fluids</i> , 2013 , 77, 1-6	4.2	6
65	The calculation of critical points of fluid mixtures-effect of improved pure component critical point representation. <i>Fluid Phase Equilibria</i> , 1983 , 14, 265-272	2.5	6
64	Kinetic Study of Hydrothermal Leaching of Lithium Cobalt Oxide with Citric Acid. <i>Kagaku Kogaku Ronbunshu</i> , 2019 , 45, 147-157	0.4	6
63	Measurement and correlation of flavanone, tangeritin, nobiletin, 6-hydroxyflavanone and 7-hydroxyflavone solubilities in supercritical CO ₂ . <i>Journal of Supercritical Fluids</i> , 2017 , 128, 166-172	4.2	5
62	Supercritical carbon dioxide extraction of mangostin from mangosteen pericarp with virgin coconut oil as co-extractant and in-vitro bio-accessibility measurement. <i>Process Biochemistry</i> , 2019 , 87, 213-220	4.8	5

61	Catalytic hydrogenation of levulinic acid in ionic liquid mixtures using hydrogen gas in high-pressure CO ₂ . <i>Journal of Supercritical Fluids</i> , 2020 , 164, 104891	4.2	5
60	Hydrothermal Extraction of Antioxidant Compounds from Green Coffee Beans and Decomposition Kinetics of 3-o-Caffeoylquinic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 7624-7632 ^{3,9}	3.9	5
59	Local density augmentation of excited 1-(dimethylamino)naphthalene in supercritical water. <i>Journal of Supercritical Fluids</i> , 2006 , 39, 206-210	4.2	5
58	Temperature dependence of local density augmentation around exciplex in supercritical carbon dioxide. <i>Fluid Phase Equilibria</i> , 2004 , 219, 37-40	2.5	5
57	The morphological evolution of the Bi ₂ Mo ₃ O ₁₂ (010) surface in air/H ₂ O atmospheres. <i>Journal of Catalysis</i> , 2003 , 213, 151-162	7.3	5
56	Supercritical extraction of fat from phospholipid biomembrane structures. <i>Journal of Supercritical Fluids</i> , 1994 , 7, 191-196	4.2	5
55	Improving Creativity, Solving Problems, and Communicating with Peers in Engineering and Science Laboratories. <i>Journal of Chemical Education</i> , 1994 , 71, 592	2.4	5
54	Calculation of critical loci with an equation of state based on the significant structure model. <i>Fluid Phase Equilibria</i> , 1989 , 52, 103-110	2.5	5
53	Synthesis of ferroelectric K _{1-x} Na _x Nb _{1-y} Ta _y O ₃ nanoparticles using a supercritical water flow system. <i>Journal of Supercritical Fluids</i> , 2017 , 123, 101-108	4.2	4
52	Measurement and modeling of adsorption equilibria of imidazolium-based ionic liquids on activated carbon from aqueous solutions. <i>Fluid Phase Equilibria</i> , 2017 , 441, 17-23	2.5	4
51	Measurement and modeling of infinite dilution activity coefficients of organic compounds in an equimolar ionic liquid mixture of [Bmim]Cl and [Bmim][Tf ₂ N]. <i>Fluid Phase Equilibria</i> , 2019 , 488, 72-78	2.5	4
50	Production of Versatile Platform Chemical 5-Hydroxymethylfurfural from Biomass in Ionic Liquids. <i>Biofuels and Biorefineries</i> , 2014 , 223-254	0.3	4
49	Hydrogen Formation from Biomass Model Compounds and Real Biomass by Partial Oxidation in High Temperature High Pressure Water. <i>Journal of the Japan Petroleum Institute</i> , 2012 , 55, 219-228	1	4
48	A precise deconvolution method to derive methane hydrate cage occupancy ratios using Raman spectroscopy. <i>Chemical Engineering Science</i> , 2020 , 214, 115361	4.4	4
47	Ferromagnetic Lignin-Derived Ordered Mesoporous Carbon for Catalytic Hydrogenation of Furfural to Furfuryl Alcohol. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 18157-18166	8.3	4
46	Selective conversion of furfuryl alcohol to levulinic acid by SO ₃ H-containing silica nanoflower in GVL/H ₂ O system. <i>Renewable Energy</i> , 2021 , 171, 124-132	8.1	4
45	Measurement of infinite dilution partition coefficients of isomeric benzene derivatives in [bmim][Tf ₂ N]-CO ₂ biphasic system and correlation with the ePC-SAFT equation of state. <i>Fluid Phase Equilibria</i> , 2016 , 420, 36-43	2.5	4
44	Role of impurity components and pollutant removal processes in catalytic oxidation of o-xylene from simulated coal-fired flue gas. <i>Science of the Total Environment</i> , 2021 , 764, 142805	10.2	4

43	Methane clathrate hydrate dissociation analyzed with Raman spectroscopy and a thermodynamic mass transfer model considering cage occupancy. <i>Fluid Phase Equilibria</i> , 2019 , 489, 41-47	2.5	3
42	Application of the Preferential Solvation Viscosity Model to Binary Liquid Mixtures: Aqueous, Nonaqueous, Ionic Liquid, and Deep Eutectic Solvent Systems. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 14991-15002	3.9	3
41	Multiple adsorption resistance model for constituent molecular effects in hydrogen clathration kinetics in clathrate hydrate particles. <i>Chemical Engineering Science</i> , 2014 , 108, 270-282	4.4	3
40	Systems, Devices and Processes. <i>Supercritical Fluid Science and Technology</i> , 2013 , 55-119		3
39	Heat Transfer and Finite-Difference Methods. <i>Supercritical Fluid Science and Technology</i> , 2013 , 557-615		3
38	Fundamentals of Bifunctional Catalysis for Transforming Biomass-Related Compounds into Chemicals and Biofuels. <i>Biofuels and Biorefineries</i> , 2017 , 3-30	0.3	3
37	The Pyrolysis of Oil Sand Bitumen in the Presence of Water and Toluene. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2012 , 91, 303-310	0.5	3
36	Water under Hydrothermal, Supercritical, and High Pressure Conditions as Key to Developing Green Processes and New Technologies 2010 ,		3
35	Cosolvent effect on enhancement of reaction rate constant in near-critical region. <i>Journal of Supercritical Fluids</i> , 2003 , 27, 247-253	4.2	3
34	Activation of oxide-ion conduction in KNbO ₃ by addition of Mg ²⁺ . <i>Applied Physics Letters</i> , 2002 , 81, 2899-2901	3.4	3
33	Equations of State and Formulations for Mixtures. <i>Supercritical Fluid Science and Technology</i> , 2013 , 333-480		2
32	Reaction of cellulose-starch gel mixtures in water at high-temperatures and pressures for developing continuous batch microreactor systems. <i>Bioresource Technology</i> , 2008 , 99, 4338-45	11	2
31	Chemical Reactions of C1 Compounds in Near-Critical and Supercritical Water. <i>ChemInform</i> , 2005 , 36, no		2
30	Manganese oxide as an alternative to vanadium-based catalysts for effective conversion of glucose to formic acid in water. <i>Green Chemistry</i> , 2022 , 24, 315-324	10	2
29	Controlled conversion of sodium hyaluronate into low-molecular-weight polymers without additives using high-temperature water and fast-heating-rates. <i>Journal of Supercritical Fluids</i> , 2020 , 155, 104638	4.2	2
28	Corrigendum to 'Nutrient recycle from defatted microalgae (<i>Aurantiochytrium</i>) with hydrothermal treatment for microalgae cultivation' [<i>Bioresour. Technol.</i> 228 (2017) 186-192]. <i>Bioresource Technology</i> , 2017 , 234, 476-477	11	1
27	Chemical Vocabulary and Essentials. <i>Supercritical Fluid Science and Technology</i> , 2013 , 4, 1-54		1
26	Chemical Equilibria and Reaction Kinetics. <i>Supercritical Fluid Science and Technology</i> , 2013 , 4, 617-688		1

25	Modeling of diffusivities in supercritical carbon dioxide using a linear solvation energy relationship. <i>Journal of Supercritical Fluids</i> , 2005 , 35, 18-25	4.2	1
24	Transferring waste minimization solutions between industrial categories with a unit operations approach: I. Chemical and plating industries. <i>Journal of Environmental Science and Health Part A: Environmental Science and Engineering</i> , 1995 , 30, 379-406		1
23	Liquid-liquid equilibria with an equation of state based on the significant structure model. <i>Fluid Phase Equilibria</i> , 1994 , 97, 29-41	2.5	1
22	Preparation of Soluble Peptide from Defatted Soybean in the Presence of Base Additives in Hydrothermal Condition and Evaluation of its Function. <i>Kagaku Kogaku Ronbunshu</i> , 2018 , 44, 78-84	0.4	1
21	Review of Biomass Conversion in High Pressure High Temperature Water (HHW) Including Recent Experimental Results (Isomerization and Carbonization). <i>Green Chemistry and Sustainable Technology</i> , 2014 , 249-274	1.1	1
20	Supercritical Hydrothermal Synthesis of Polyacrylic Acid-Capped Copper Nanoparticles and Their Feasibility as Conductive Nanoinks. <i>Journal of Electronic Materials</i> , 2020 , 49, 5681-5686	1.9	1
19	Distribution coefficients of salicylic acid and methyl salicylate in high-pressure CO ₂ /water - ethanol systems. <i>Journal of Supercritical Fluids</i> , 2020 , 166, 105013	4.2	1
18	Amino-functional biocarbon with CO ₂ -responsive property for removing copper(II) ions from aqueous solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 616, 126304	5.1	1
17	Measurement and correlation of vapor-liquid distribution coefficients of flavonoids in high pressure carbon dioxide /ethanol /water systems. <i>Fluid Phase Equilibria</i> , 2019 , 489, 90-98	2.5	1
16	Supercritical water pretreatment method for analysis of strontium and uranium in soil (Andosols). <i>Applied Radiation and Isotopes</i> , 2021 , 168, 109465	1.7	1
15	Synthesis of self-renewing Fe(0)-dispersed ordered mesoporous carbon for electrocatalytic reduction of nitrates to nitrogen.. <i>Science of the Total Environment</i> , 2022 , 836, 155640	10.2	1
14	Continuous Process for HMF Production from Cellulose with Ionic Liquid ([BmIm]Cl)-Water Mixtures. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2017 , 96, 417-429	0.5	0
13	Effect of Lewis and Brønsted Acids on Conversion of Chitin Monomer N-Acetyl-D-Glucosamine (GlcNAc) to Furan Derivatives in [Bmim]Cl Ionic Liquid. <i>Kagaku Kogaku Ronbunshu</i> , 2019 , 45, 141-146	0.4	0
12	Design of functional biocarbons for selective adsorption of 5-hydroxymethylfurfural from aqueous solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 637, 128187	5.1	0
11	Effect of Temperature, Time and ZnCl ₂ Addition on Formation of Oxygenated Functional Groups on the Surface of Flexible Carbon Prepared by Hydrothermal Carbonization. <i>Kagaku Kogaku Ronbunshu</i> , 2018 , 44, 123-128	0.4	0
10	Sustainable Approaches for Materials Engineering With Supercritical Carbon Dioxide 2020 , 395-414		0
9	Mini-review on application of analytical centrifugation, ultracentrifugation and centrifugal devices to phase equilibria and separation processes. <i>Fluid Phase Equilibria</i> , 2022 , 558, 113457	2.5	0
8	Conclusions and Suggestions for Further Study. <i>Supercritical Fluid Science and Technology</i> , 2013 , 689-693		

- 7 Phase Equilibria and Mass Transfer. *Supercritical Fluid Science and Technology*, **2013**, 481-556
- 6 Chemical Information and Know-How. *Supercritical Fluid Science and Technology*, **2013**, 121-174
- 5 Underlying Thermodynamics and Practical Expressions. *Supercritical Fluid Science and Technology*, **2013**, 4, 275-332
- 4 Energy and Supercritical Fluids **2015**, 75-91
- 3 CRITICAL POINT PREDICTION USING A MULTI-FLUID GENERALIZED CORRESPONDING STATES PRINCIPLE. *Chemical Engineering Communications*, **1986**, 43, 211-223 2.2
- 2 Kinetic Analysis and Reaction Mechanism of Hydrothermal Hydrolysis of Rapeseed Hulls to Produce Polyphenols. *Kagaku Kogaku Ronbunshu*, **2018**, 44, 189-196 0.4
- 1 Additive-free hydrothermal leaching method with low environmental burden for screening of strontium in soil. *Environmental Science and Pollution Research*, **2021**, 28, 55725-55735 5.1