Richard L Smith Jr

List of Publications by Year in Descending Order

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	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	10	2
257	Design of functional biocarbons for selective adsorption of 5-hydroxymethylfurfural from aqueous solutions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 637, 128187	5.1	0
256	Mini-review on application of analytical centrifugation, ultracentrifugation and centrifugal devices to phase equilibria and separation processes. *Fluid Phase Equilibria*, **2022**, 558, 113457	2.5	0
255	Synthesis of self-renewing Fe(0)-dispersed ordered mesoporous carbon for electrocatalytic reduction of nitrates to nitrogen.. *Science of the Total Environment*, **2022**, 836, 155640	10.2	1
254	Amino-functional biocarbon with CO2-responsive property for removing copper(II) ions from aqueous solutions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 616, 126304	5.1	1
253	Selective conversion of furfuryl alcohol to levulinic acid by SO3H-containing silica nanoflower in GVL/H2O system. *Renewable Energy*, **2021**, 171, 124-132	8.1	4
252	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	
251	Role of impurity components and pollutant removal processes in catalytic oxidation of o-xylene from simulated coal-fired flue gas. *Science of the Total Environment*, **2021**, 764, 142805	10.2	4
250	Supercritical water pretreatment method for analysis of strontium and uranium in soil (Andosols). *Applied Radiation and Isotopes*, **2021**, 168, 109465	1.7	1
249	Mg-coordinated self-assembly of MgO-doped ordered mesoporous carbons for selective recovery of phosphorus from aqueous solutions. *Chemical Engineering Journal*, **2021**, 406, 126748	14.7	13
248	Critical assessment of reaction pathways for conversion of agricultural waste biomass into formic acid. *Green Chemistry*, **2021**, 23, 1536-1561	10	13
247	Synthesis of ethyl levulinate over amino-sulfonated functional carbon materials. *Renewable Energy*, **2020**, 157, 951-958	8.1	19
246	Complete dechlorination of lindane over N-doped porous carbon supported Pd catalyst at room temperature and atmospheric pressure. *Science of the Total Environment*, **2020**, 719, 137534	10.2	9
245	Catalytic hydrogenation of levulinic acid in ionic liquid mixtures using hydrogen gas in high-pressure CO2. *Journal of Supercritical Fluids*, **2020**, 164, 104891	4.2	5
244	Cycloamination strategies for renewable N-heterocycles. *Green Chemistry*, **2020**, 22, 582-611	10	51
243	Mechanistic role of protonated polar additives in ethanol for selective transformation of biomass-related compounds. *Applied Catalysis B: Environmental*, **2020**, 264, 118509	21.8	22
242	A precise deconvolution method to derive methane hydrate cage occupancy ratios using Raman spectroscopy. *Chemical Engineering Science*, **2020**, 214, 115361	4.4	4

241	Ferromagnetic Lignin-Derived Ordered Mesoporous Carbon for Catalytic Hydrogenation of Furfural to Furfuryl Alcohol. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 18157-18166	8.3	4
240	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	4.9	7
239	Supercritical Hydrothermal Synthesis of Polyacrylic Acid-Capped Copper Nanoparticles and Their Feasibility as Conductive Nanoinks. *Journal of Electronic Materials*, **2020**, 49, 5681-5686	1.9	1
238	Distribution coefficients of salicylic acid and methyl salicylate in high-pressure CO2 water - ethanol systems. *Journal of Supercritical Fluids*, **2020**, 166, 105013	4.2	1
237	Controlled conversion of sodium hyaluronate into low-molecular-weight polymers without additives using high-temperature water and fast-heating-rates. *Journal of Supercritical Fluids*, **2020**, 155, 104638	4.2	2
236	Sustainable Approaches for Materials Engineering With Supercritical Carbon Dioxide **2020**, 395-414		0
235	Supercritical carbon dioxide extraction of mangostin from mangosteen pericarp with virgin coconut oil as co-extractant and in-vitro bio-accessibility measurement. *Process Biochemistry*, **2019**, 87, 213-220	4.8	5
234	Measurement and modeling of infinite dilution activity coefficients of organic compounds in an equimolar ionic liquid mixture of [Bmim]Cl and [Bmim][Tf2N]. *Fluid Phase Equilibria*, **2019**, 488, 72-78	2.5	4
233	Methane clathrate hydrate dissociation analyzed with Raman spectroscopy and a thermodynamic mass transfer model considering cage occupancy. *Fluid Phase Equilibria*, **2019**, 489, 41-47	2.5	3
232	N-formyl-stabilizing quasi-catalytic species afford rapid and selective solvent-free amination of biomass-derived feedstocks. *Nature Communications*, **2019**, 10, 699	17.4	37
231	Application of the Preferential Solvation Viscosity Model to Binary Liquid Mixtures: Aqueous, Nonaqueous, Ionic Liquid, and Deep Eutectic Solvent Systems. *Industrial & Engineering Chemistry Research*, **2019**, 58, 14991-15002	3.9	3
230	Predictive Framework for Estimating Dipolarity/Polarizability of Binary Nonpolar Polar Mixtures with Relative Normalized Absorption Wavelength and Gas-Phase Dipole Moment. *Industrial & Engineering Chemistry Research*, **2019**, 58, 18986-18996	3.9	6
229	Black liquor-derived calcium-activated biochar for recovery of phosphate from aqueous solutions. *Bioresource Technology*, **2019**, 294, 122198	11	37
228	Effect of Lewis and Brsted Acids on Conversion of Chitin Monomer N-Acetyl-D-Glucosamine (GlcNAc) to Furan Derivatives in [Bmim]Cl Ionic Liquid. *Kagaku Kogaku Ronbunshu*, **2019**, 45, 141-146	0.4	0
227	Kinetic Study of Hydrothermal Leaching of Lithium Cobalt Oxide with Citric Acid. *Kagaku Kogaku Ronbunshu*, **2019**, 45, 147-157	0.4	6
226	Measurement and correlation of vapor-liquid distribution coefficients of flavonoids in high pressure carbon dioxide ethanol water systems. *Fluid Phase Equilibria*, **2019**, 489, 90-98	2.5	1
225	Hydrogen gas-free processes for single-step preparation of transition-metal bifunctional catalysts and one-pot valerolactone synthesis in supercritical CO2-ionic liquid systems. *Journal of Supercritical Fluids*, **2019**, 147, 263-270	4.2	15
224	Efficient catalytic transfer hydrogenation of biomass-based furfural to furfuryl alcohol with recycable Hf-phenylphosphonate nanohybrids. *Catalysis Today*, **2019**, 319, 84-92	5.3	44

223	Aspects of solvent polarity and solvent properties in developing efficient systems for processing biomass with ionic liquid mixtures and supercritical CO2. *Journal of Supercritical Fluids*, **2018**, 134, 12-20	4.2	12
222	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 Tetracyanoborate, and 1-Hexyl-3-methylimidazolium Tetracyanoborate. *Journal of Chemical &*	2.8	11
221	Fractionation of hops-extract□ethanol solutions using dense CO2 with a counter-current extraction column. *Journal of Supercritical Fluids*, **2018**, 136, 37-43	4.2	13
220	Measurement and modeling of CO 2 solubility in [bmim]Cl □[bmim][Tf 2 N] mixed-ionic liquids for design of versatile reaction solvents. *Journal of Supercritical Fluids*, **2018**, 132, 42-50	4.2	18
219	Porous carbonaceous materials from hydrothermal carbonization and KOH activation of corn stover for highly efficient CO2 capture. *Chemical Engineering Communications*, **2018**, 205, 423-431	2.2	27
218	Hydrothermal separation of lignin from bark of Japanese cedar. *Journal of Supercritical Fluids*, **2018**, 133, 696-703	4.2	17
217	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	4.1	24
216	Hydrothermal Extraction of Antioxidant Compounds from Green Coffee Beans and Decomposition Kinetics of 3-o-Caffeoylquinic Acid. *Industrial & Engineering Chemistry Research*, **2018**, 57, 7624-7632	3.9	5
215	Predictive dimensionless solubility (pDS) model for solid solutes in supercritical CO2 that requires only pure-component physical properties. *Chemical Engineering Research and Design*, **2018**, 136, 251-261	3.5	6
214	Preparation of Soluble Peptide from Defatted Soybean in the Presence of Base Additives in Hydrothermal Condition and Evaluation of its Function. *Kagaku Kogaku Ronbunshu*, **2018**, 44, 78-84	0.4	1
213	Effect of Temperature, Time and ZnCl2 Addition on Formation of Oxygenated Functional Groups on the Surface of Flexible Carbon Prepared by Hydrothermal Carbonization. *Kagaku Kogaku Ronbunshu*, **2018**, 44, 123-128	0.4	0
212	Kinetic Analysis and Reaction Mechanism of Hydrothermal Hydrolysis of Rapeseed Hulls to Produce Polyphenols. *Kagaku Kogaku Ronbunshu*, **2018**, 44, 189-196	0.4	
211	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	6	19
210	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	4.2	12
209	Correspondence between Spectral-Derived and Viscosity-Derived Local Composition in Binary Liquid Mixtures Having Specific Interactions with Preferential Solvation Theory. *Journal of Physical Chemistry B*, **2018**, 122, 10894-10906	3.4	8
208	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	3.9	19
207	Synthesis of ferroelectric K1-xNaxNb1-yTayO3 nanoparticles using a supercritical water flow system. *Journal of Supercritical Fluids*, **2017**, 123, 101-108	4.2	4
206	Measurement and modeling of adsorption equilibria of imidazolium-based ionic liquids on activated carbon from aqueous□solutions. *Fluid Phase Equilibria*, **2017**, 441, 17-23	2.5	4

205	Black liquor-derived porous carbons from rice straw for high-performance supercapacitors. *Chemical Engineering Journal*, **2017**, 316, 770-777	14.7	99
204	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	8.3	81
203	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
202	Vapor-liquid distribution coefficients of hops extract in high pressure CO2 and ethanol mixtures and data correlation with entropy-based solubility parameters. *Fluid Phase Equilibria*, **2017**, 434, 44-48	2.5	9
201	Measurement and correlation of flavanone, tangeritin, nobiletin, 6-hydroxyflavanone and 7-hydroxyflavone solubilities in supercritical CO 2. *Journal of Supercritical Fluids*, **2017**, 128, 166-172	4.2	5
200	Does Synergism in Microscopic Polarity Correlate with Extrema in Macroscopic Properties for Aqueous Mixtures of Dipolar Aprotic Solvents?. *Journal of Physical Chemistry B*, **2017**, 121, 6033-6041	3.4	13
199	Corrigendum to 'Nutrient recycle from defatted microalgae (Aurantiochytrium) with hydrothermal treatment for microalgae cultivation' [Bioresour. Technol. 228 (2017) 186-192]. *Bioresource Technology*, **2017**, 234, 476-477	11	1
198	Efficient conversion of fructose into 5-ethoxymethylfurfural with hydrogen sulfate ionic liquids as co-solvent and catalyst. *Chemical Engineering Journal*, **2017**, 314, 508-514	14.7	64
197	Nutrient recycle from defatted microalgae (Aurantiochytrium) with hydrothermal treatment for microalgae cultivation. *Bioresource Technology*, **2017**, 228, 186-192	11	20
196	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	2.9	15
195	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
194	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	8.3	14
193	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	4.2	14
192	High-Performance Supercapacitor Electrode Materials from Chitosan via Hydrothermal Carbonization and Potassium Hydroxide Activation. *Energy Technology*, **2017**, 5, 452-460	3.5	30
191	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	4.2	20
190	Measurement of high pressure densities and atmospheric pressure viscosities of alkyl phosphate anion ionic liquids and correlation with the □-modified Sanchez-Lacombe equation of state. *Journal of Chemical Thermodynamics*, **2017**, 104, 73-81	2.9	14
189	Fundamentals of Bifunctional Catalysis for Transforming Biomass-Related Compounds into Chemicals and Biofuels. *Biofuels and Biorefineries*, **2017**, 3-30	0.3	3
188	Continuous Process for HMF Production from Cellulose with Ionic Liquid ([BmIm]Cl)-Water Mixtures. *Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy*, **2017**, 96, 417-429	0.5	0

187	Hydrothermal Leaching of LiCoO2 with Sulfuric Acid, Nitric Acid, and Citric Acid. *Kagaku Kogaku Ronbunshu*, **2017**, 43, 313-318	0.4	14
186	Quantitative chemocatalytic production of lactic acid from glucose under anaerobic conditions at room temperature. *Green Chemistry*, **2017**, 19, 76-81	10	56
185	Nutrient recovery from municipal sludge for microalgae cultivation with two-step hydrothermal liquefaction. *Algal Research*, **2016**, 18, 61-68	5	33
184	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	2.5	11
183	Antioxidation Properties and Surface Interactions of Polyvinylpyrrolidone-Capped Zerovalent Copper Nanoparticles Synthesized in Supercritical Water. *ACS Applied Materials & Interfaces*, **2016**, 8, 1627-34	9.5	25
182	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
181	Synthesis of alkali niobate K 1− x Na x NbO 3 nanoparticles using a supercritical water flow system. *Journal of Supercritical Fluids*, **2016**, 107, 1-8	4.2	7
180	Winterization of Vegetable Oil Blends for Biodiesel Fuels and Correlation Based on Initial Saturated Fatty Acid Constituents. *Energy & Fuels*, **2016**, 30, 4841-4847	4.1	13
179	Efficient valorization of biomass to biofuels with bifunctional solid catalytic materials. *Progress in Energy and Combustion Science*, **2016**, 55, 98-194	33.6	181
178	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
177	Measurement of infinite dilution partition coefficients of isomeric benzene derivatives in [bmim][Tf2N]-CO2 biphasic system and correlation with the ePC-SAFT equation of state. *Fluid Phase Equilibria*, **2016**, 420, 36-43	2.5	4
176	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	8.3	37
175	Easy emission-color-control of Mn-doped zinc silicate phosphor by use of pH and supercritical water conditions. *Journal of Supercritical Fluids*, **2015**, 98, 65-69	4.2	8
174	Hydrogen and carbon dioxide adsorption with tetra-n-butyl ammonium semi-clathrate hydrates for gas separations. *AICHE Journal*, **2015**, 61, 992-1003	3.6	14
173	Effects of light intensity and temperature on photoautotrophic growth of a green microalga,. *Biotechnology Reports (Amsterdam, Netherlands)*, **2015**, 7, 24-29	5.3	38
172	Spectroscopic Analysis of Binary Mixed-Solvent-Polyimide Precursor Systems with the Preferential Solvation Model for Determining Solute-Centric Kamlet-Taft Solvatochromic Parameters. *Journal of Physical Chemistry B*, **2015**, 119, 14738-49	3.4	23
171	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. *Fluid Phase Equilibria*, **2015**, 405, 96-100	2.5	22
170	Separation factors for [amim]Cl□CO2 biphasic systems from high pressure density and partition coefficient measurements. *Separation and Purification Technology*, **2015**, 155, 139-148	8.3	8

169	Development of a simple method for predicting CO2 enhancement of H2 gas solubility in ionic liquids. *Journal of Supercritical Fluids*, **2015**, 96, 162-170	4.2	9
168	Viscosity and density of poly(ethylene glycol) and its solution with carbon dioxide at 353.2K and 373.2K at pressures up to 15MPa. *Journal of Supercritical Fluids*, **2015**, 97, 63-73	4.2	11
167	Variation of photoautotrophic fatty acid production from a highly CO2 tolerant alga, Chlorococcum littorale, with inorganic carbon over narrow ranges of pH. *Biotechnology Progress*, **2015**, 31, 1053-7	2.8	10
166	Energy and Supercritical Fluids **2015**, 75-91		
165	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	2.8	46
164	Fundamentals of Acoustic Cavitation in Sonochemistry. *Biofuels and Biorefineries*, **2015**, 3-33	0.3	9
163	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
162	Dissolution of mechanically milled chitin in high temperature water. *Carbohydrate Polymers*, **2014**, 106, 172-8	10.3	34
161	Hydrolysis of cellulose to produce glucose with solid acid catalysts in 1-butyl-3-methyl-imidazolium chloride ([bmIm][Cl]) with sequential water addition. *Biomass Conversion and Biorefinery*, **2014**, 4, 323-331	2.3	7
160	Multiple adsorption resistance model for constituent molecular effects in hydrogen clathration kinetics in clathrate hydrate particles. *Chemical Engineering Science*, **2014**, 108, 270-282	4.4	3
159	Ultrasound-enhanced conversion of biomass to biofuels. *Progress in Energy and Combustion Science*, **2014**, 41, 56-93	33.6	257
158	Reduction of gelatinization temperatures of starch blend suspensions with supercritical CO2 treatment. *Journal of Supercritical Fluids*, **2014**, 95, 499-505	4.2	10
157	Removal of hydrophilic ionic liquids from aqueous solutions by adsorption onto high surface area oxygenated carbonaceous material. *Chemical Engineering Journal*, **2014**, 256, 407-414	14.7	43
156	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	2.8	44
155	One-step preparation of carbonaceous solid acid catalysts by hydrothermal carbonization of glucose for cellulose hydrolysis. *Catalysis Communications*, **2014**, 57, 50-54	3.2	54
154	Production of Versatile Platform Chemical 5-Hydroxymethylfurfural from Biomass in Ionic Liquids. *Biofuels and Biorefineries*, **2014**, 223-254	0.3	4
153	Review of Biomass Conversion in High Pressure High Temperature Water (HHW) Including Recent Experimental Results (Isomerization and Carbonization). *Green Chemistry and Sustainable Technology*, **2014**, 249-274	1.1	1
152	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	2.5	19

151	Viscosity reduction of cellulose + 1-butyl-3-methylimidazolium acetate in the presence of CO2. *Cellulose*, **2013**, 20, 1353-1367	5.5	20
150	Systems, Devices and Processes. *Supercritical Fluid Science and Technology*, **2013**, 55-119		3
149	Equations of State and Formulations for Mixtures. *Supercritical Fluid Science and Technology*, **2013**, 333-480		2
148	Conclusions and Suggestions for Further Study. *Supercritical Fluid Science and Technology*, **2013**, 689-693		
147	Heat Transfer and Finite-Difference Methods. *Supercritical Fluid Science and Technology*, **2013**, 557-615		3
146	Historical Background and Applications. *Supercritical Fluid Science and Technology*, **2013**, 4, 175-273		9
145	Chemical Vocabulary and Essentials. *Supercritical Fluid Science and Technology*, **2013**, 4, 1-54		1
144	Chemical Equilibria and Reaction Kinetics. *Supercritical Fluid Science and Technology*, **2013**, 4, 617-688		1
143	Phase Equilibria and Mass Transfer. *Supercritical Fluid Science and Technology*, **2013**, 481-556		
142	Chemical Information and Know-How. *Supercritical Fluid Science and Technology*, **2013**, 121-174		
141	Underlying Thermodynamics and Practical Expressions. *Supercritical Fluid Science and Technology*, **2013**, 4, 275-332		
140	Dissolution and recovery of cellulose from 1-butyl-3-methylimidazolium chloride in presence of water. *Carbohydrate Polymers*, **2013**, 92, 651-8	10.3	34
139	Partition coefficients of furan derivative compounds in 1-n-butyl-3-methylimidazolium chloride ([bmim][Cl])–supercritical CO2 biphasic systems and their correlation and prediction with the LSER-model. *Journal of Supercritical Fluids*, **2013**, 79, 32-40	4.2	6
138	Adsorption of 1-butyl-3-methylimidazolium chloride ionic liquid by functional carbon microspheres from hydrothermal carbonization of cellulose. *Environmental Science & Technology*, **2013**, 47, 2792-8	10.3	80
137	Continuous hydrothermal synthesis of ZnGa2O4:Mn2+ nanoparticles at temperatures of 300–500°C and pressures of 25–35MPa. *Journal of Supercritical Fluids*, **2013**, 77, 1-6	4.2	6
136	Review of CO2–CH4 clathrate hydrate replacement reaction laboratory studies – Properties and kinetics. *Journal of the Taiwan Institute of Chemical Engineers*, **2013**, 44, 517-537	5.3	87
135	Cellulose-derived superparamagnetic carbonaceous solid acid catalyst for cellulose hydrolysis in an ionic liquid or aqueous reaction system. *Green Chemistry*, **2013**, 15, 2167	10	116
134	Thermal analysis and mechanism of Zn2SiO4:Mn2+ formation from zinc oxalate dihydrate under hydrothermal conditions. *Materials Chemistry and Physics*, **2013**, 137, 1025-1030	4.4	8

133	Synergistic conversion of glucose into 5-hydroxymethylfurfural in ionic liquid-water mixtures. *Bioresource Technology*, **2012**, 109, 224-8	11	71
132	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][OcSO4]. *Journal of Supercritical Fluids*, **2012**, 66, 49-58	4.2	14
131	Production of organic acids from alginate in high temperature water. *Journal of Supercritical Fluids*, **2012**, 65, 39-44	4.2	34
130	Acid-catalyzed dehydration of fructose into 5-hydroxymethylfurfural by cellulose-derived amorphous carbon. *ChemSusChem*, **2012**, 5, 2215-20	8.3	136
129	Hydrolysis of cellulose over functionalized glucose-derived carbon catalyst in ionic liquid. *Bioresource Technology*, **2012**, 116, 355-9	11	112
128	Solid acid mediated hydrolysis of biomass for producing biofuels. *Progress in Energy and Combustion Science*, **2012**, 38, 672-690	33.6	189
127	The Pyrolysis of Oil Sand Bitumen in the Presence of Water and Toluene. *Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy*, **2012**, 91, 303-310	0.5	3
126	Correlation of supercritical CO2 binary mixtures with ionic liquid vapor–liquid equilibria with the PR-modified Sanchez–Lacombe equation of state. *Asia-Pacific Journal of Chemical Engineering*, **2012**, 7, S95-S100	1.3	9
125	Hydrogen Formation from Biomass Model Compounds and Real Biomass by Partial Oxidation in High Temperature High Pressure Water. *Journal of the Japan Petroleum Institute*, **2012**, 55, 219-228	1	4
124	Measurement and Correlation of High Pressure Densities of Ionic Liquids, 1-Ethyl-3-methylimidazolium l-Lactate ([emim][Lactate]), 2-Hydroxyethyl-trimethylammonium l-Lactate ([(C2H4OH)(CH3)3N][Lactate]), and 1-Butyl-3-methylimidazolium Chloride ([bmim][Cl]). *Journal of Chemical & Engineering Data*, **2011**, 56, 923-928	2.8	58
123	Green chemical processes with supercritical fluids: Properties, materials, separations and energy. *Journal of Supercritical Fluids*, **2011**, 60, 2-15	4.2	92
122	Catalytic conversion of cellulose into 5-hydroxymethylfurfural in high yields via a two-step process. *Cellulose*, **2011**, 18, 1327-1333	5.5	90
121	Decomposition kinetics and recycle of binary hydrogen-tetrahydrofuran clathrate hydrate. *AICHE Journal*, **2011**, 57, 265-272	3.6	16
120	Properties and phase equilibria of fluid mixtures as the basis for developing green chemical processes. *Fluid Phase Equilibria*, **2011**, 302, 65-73	2.5	19
119	High-yield reduction of carbon dioxide into formic acid by zero-valent metal/metal oxide redox cycles. *Energy and Environmental Science*, **2011**, 4, 881	35.4	110
118	Effects of nitrate and oxygen on photoautotrophic lipid production from Chlorococcum littorale. *Bioresource Technology*, **2011**, 102, 3286-92	11	26
117	Reaction of d-glucose in water at high temperatures (410 °C) and pressures (180 MPa) for the production of dyes and nano-particles. *Journal of Supercritical Fluids*, **2011**, 56, 41-47	4.2	15
116	Restructuring mechanism of NbO6 octahedrons in the crystallization of KNbO3 in supercritical water. *Journal of Supercritical Fluids*, **2011**, 58, 279-285	4.2	13

115	Water under Hydrothermal, Supercritical, and High Pressure Conditions as Key to Developing Green Processes and New Technologies **2010**,		3
114	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	3.8	55
113	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
112	Efficient one-pot production of 5-hydroxymethylfurfural from inulin in ionic liquids. *Green Chemistry*, **2010**, 12, 1855	10	57
111	Simple modification of the temperature dependence of the Sanchez–Lacombe equation of state. *Fluid Phase Equilibria*, **2010**, 297, 205-209	2.5	31
110	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	2.1	20
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