Haoran Li

List of Publications by Citations

163	8,761	50	91
papers	citations	h-index	g-index
170	9,755	6.2	6.25
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
163	Tuning the basicity of ionic liquids for equimolar CO2 capture. *Angewandte Chemie - International Edition*, **2011**, 50, 4918-22	16.4	517
162	Carbon dioxide capture by superbase-derived protic ionic liquids. *Angewandte Chemie - International Edition*, **2010**, 49, 5978-81	16.4	383
161	Molybdenum-Carbide-Modified Nitrogen-Doped Carbon Vesicle Encapsulating Nickel Nanoparticles: A Highly Efficient, Low-Cost Catalyst for Hydrogen Evolution Reaction. *Journal of the American Chemical Society*, **2015**, 137, 15753-9	16.4	350
160	Synthesis of boron doped polymeric carbon nitride solids and their use as metal-free catalysts for aliphatic C□H bond oxidation. *Chemical Science*, **2011**, 2, 446-450	9.4	345
159	Highly efficient and reversible SO2 capture by tunable azole-based ionic liquids through multiple-site chemical absorption. *Journal of the American Chemical Society*, **2011**, 133, 11916-9	16.4	306
158	In Situ-Generated Co0-Co3O4/N-Doped Carbon Nanotubes Hybrids as Efficient and Chemoselective Catalysts for Hydrogenation of Nitroarenes. *ACS Catalysis*, **2015**, 5, 4783-4789	13.1	290
157	Highly uniform Ru nanoparticles over N-doped carbon: pH and temperature-universal hydrogen release from water reduction. *Energy and Environmental Science*, **2018**, 11, 800-806	35.4	286
156	Significant improvements in CO□capture by pyridine-containing anion-functionalized ionic liquids through multiple-site cooperative interactions. *Angewandte Chemie - International Edition*, **2014**, 53, 7053-7	16.4	224
155	Graphitic carbon nitride polymers: promising catalysts or catalyst supports for heterogeneous oxidation and hydrogenation. *Green Chemistry*, **2015**, 17, 715-736	10	216
154	Nitrogen-doped porous carbon materials: promising catalysts or catalyst supports for heterogeneous hydrogenation and oxidation. *Catalysis Science and Technology*, **2016**, 6, 3670-3693	5.5	202
153	Equimolar CO2 capture by imidazolium-based ionic liquids and superbase systems. *Green Chemistry*, **2010**, 12, 2019	10	190
152	Prediction of the solvation and structural properties of ionic liquids in water by two-dimensional correlation spectroscopy. *Journal of Physical Chemistry B*, **2008**, 112, 6411-9	3.4	181
151	Tuning the physicochemical properties of diverse phenolic ionic liquids for equimolar CO2 capture by the substituent on the anion. *Chemistry - A European Journal*, **2012**, 18, 2153-60	4.8	174
150	Reversible and robust CO2 capture by equimolar task-specific ionic liquid□superbase mixtures. *Green Chemistry*, **2010**, 12, 870	10	172
149	Metal-free allylic/benzylic oxidation strategies with molecular oxygen: recent advances and future prospects. *Green Chemistry*, **2014**, 16, 2344	10	157
148	Highly efficient SO2 capture by dual functionalized ionic liquids through a combination of chemical and physical absorption. *Chemical Communications*, **2012**, 48, 2633-5	5.8	153
147	Novel quaternary ammonium ionic liquids and their use as dual solvent-catalysts in the hydrolytic reaction. *Green Chemistry*, **2006**, 8, 96-99	10	151

146	Adsorption and Activation of O2 on Nitrogen-Doped Carbon Nanotubes. *Journal of Physical Chemistry C*, **2010**, 114, 9603-9607	3.8	148
145	Tuning anion-functionalized ionic liquids for improved SO2 capture. *Angewandte Chemie - International Edition*, **2013**, 52, 10620-4	16.4	134
144	Structures and Hydrogen Bonding Analysis of N,N-Dimethylformamide and N,N-Dimethylformamide–Water Mixtures by Molecular Dynamics Simulations. *Journal of Physical Chemistry A*, **2003**, 107, 1574-1583	2.8	123
143	RuPd Alloy Nanoparticles Supported on N-Doped Carbon as an Efficient and Stable Catalyst for Benzoic Acid Hydrogenation. *ACS Catalysis*, **2015**, 5, 3100-3107	13.1	118
142	Preparation of simple ammonium ionic liquids and their application in the cracking of dialkoxypropanes. *Green Chemistry*, **2006**, 8, 603	10	116
141	Highly selective Pd@mpg-C3N4 catalyst for phenol hydrogenation in aqueous phase. *RSC Advances*, **2013**, 3, 10973	3.7	114
140	Highly efficient SO2 capture through tuning the interaction between anion-functionalized ionic liquids and SO2. *Chemical Communications*, **2013**, 49, 1166-8	5.8	109
139	Metal-free oxidation of sulfides by carbon nitride with visible light illumination at room temperature. *Green Chemistry*, **2012**, 14, 1904	10	109
138	The strategies for improving carbon dioxide chemisorption by functionalized ionic liquids. *RSC Advances*, **2013**, 3, 15518	3.7	108
137	Ionic liquids with metal chelate anions. *Chemical Communications*, **2012**, 48, 2334-6	5.8	107
136	Probing electron density of H-bonding between cation-anion of imidazolium-based ionic liquids with different anions by vibrational spectroscopy. *Journal of Physical Chemistry B*, **2010**, 114, 2828-33	3.4	106
135	Visible-Light-Induced Metal-Free Allylic Oxidation Utilizing a Coupled Photocatalytic System of g-C3N4 and N-Hydroxy Compounds. *Advanced Synthesis and Catalysis*, **2011**, 353, 1447-1451	5.6	101
134	Tuning the Basicity of Ionic Liquids for Equimolar CO2 Capture. *Angewandte Chemie*, **2011**, 123, 5020-5024	3.6	99
133	Designing of anion-functionalized ionic liquids for efficient capture of SO2 from flue gas. *AICHE Journal*, **2015**, 61, 2028-2034	3.6	91
132	3D-interconnected hierarchical porous N-doped carbon supported ruthenium nanoparticles as an efficient catalyst for toluene and quinoline hydrogenation. *Green Chemistry*, **2016**, 18, 6082-6090	10	90
131	Hydrogenation of Benzoic Acid and Derivatives over Pd Nanoparticles Supported on N-Doped Carbon Derived from Glucosamine Hydrochloride. *ACS Catalysis*, **2014**, 4, 3132-3135	13.1	88
130	Highly efficient CO2 capture by tunable alkanolamine-based ionic liquids with multidentate cation coordination. *Chemical Communications*, **2012**, 48, 6526-8	5.8	86
129	Highly efficient SO2 capture by phenyl-containing azole-based ionic liquids through multiple-site interactions. *Green Chemistry*, **2014**, 16, 1211-1216	10	81

128	Selective oxidation of benzene to phenol by FeCl3/mpg-C3N4 hybrids. *RSC Advances*, **2013**, 3, 5121	3.7	79
127	Nitrogen-doped hollow carbon hemispheres as efficient metal-free electrocatalysts for oxygen reduction reaction in alkaline medium. *Journal of Materials Chemistry A*, **2014**, 2, 605-609	13	77
126	Theoretical Study of the Proton Transfer of Uracil and (Water)n (n = 0□4): Water Stabilization and Mutagenicity for Uracil. *Journal of Physical Chemistry B*, **2004**, 108, 12999-13007	3.4	72
125	Design and fabrication of hierarchically porous carbon with a template-free method. *Scientific Reports*, **2014**, 4, 6349	4.9	65
124	Comparison of the blue-shifted C-D stretching vibrations for DMSO-d(6) in imidazolium-based room temperature ionic liquids and in water. *Journal of Physical Chemistry B*, **2009**, 113, 5978-84	3.4	64
123	Structure and conformation properties of 1-alkyl-3-methylimidazolium halide ionic liquids: a density-functional theory study. *Journal of Chemical Physics*, **2005**, 123, 174501	3.9	64
122	Highly efficient and chemoselective hydrogenation of □unsaturated carbonyls over Pd/N-doped hierarchically porous carbon. *Catalysis Science and Technology*, **2015**, 5, 397-404	5.5	63
121	Density, Viscosity, and Refractive Index Properties for the Binary Mixtures of n-Butylammonium Acetate Ionic Liquid + Alkanols at Several Temperatures. *Journal of Chemical & Engineering Data*, **2012**, 57, 298-308	2.8	63
120	Direct UV-spectroscopic measurement of selected ionic-liquid vapors. *Physical Chemistry Chemical Physics*, **2010**, 12, 7246-50	3.6	62
119	Highly Efficient Nitric Oxide Capture by Azole-Based Ionic Liquids through Multiple-Site Absorption. *Angewandte Chemie - International Edition*, **2016**, 55, 14364-14368	16.4	61
118	Solvent-free synthesis of unsaturated ketones by the Saucy□Marbet reaction using simple ammonium ionic liquid as a catalyst. *Green Chemistry*, **2009**, 11, 843	10	59
117	Tuning the basicity of ionic liquids for efficient synthesis of alkylidene carbonates from CO2 at atmospheric pressure. *Chemical Communications*, **2016**, 52, 7830-3	5.8	58
116	Highly efficient CO2 capture by carbonyl-containing ionic liquids through Lewis acid-base and cooperative C-H□ hydrogen bonding interaction strengthened by the anion. *Chemical Communications*, **2014**, 50, 15041-4	5.8	56
115	Computer-Assisted Design of Ionic Liquids for Efficient Synthesis of 3(2H)-Furanones: A Domino Reaction Triggered by CO. *Journal of the American Chemical Society*, **2016**, 138, 14198-14201	16.4	52
114	Mesoporous nitrogen-doped carbon for copper-mediated Ullmann-type C□/N/S cross-coupling reactions. *RSC Advances*, **2013**, 3, 1890-1895	3.7	50
113	Controlled synthesis of sustainable N-doped hollow core-mesoporous shell carbonaceous nanospheres from biomass. *Nano Research*, **2014**, 7, 1809-1819	10	50
112	Significant Improvements in CO2 Capture by Pyridine-Containing Anion-Functionalized Ionic Liquids through Multiple-Site Cooperative Interactions. *Angewandte Chemie*, **2014**, 126, 7173-7177	3.6	46
111	Designing an anion-functionalized fluorescent ionic liquid as an efficient and reversible turn-off sensor for detecting SO. *Chemical Communications*, **2017**, 53, 3862-3865	5.8	45

110	Ni-promoted synthesis of graphitic carbon nanotubes from in situ produced graphitic carbon for dehydrogenation of ethylbenzene. *Chemical Communications*, **2015**, 51, 12859-62	5.8	43
109	Ionicity of Protic Ionic Liquid: Quantitative Measurement by Spectroscopic Methods. *Journal of Physical Chemistry B*, **2017**, 121, 1372-1376	3.4	42
108	Characterizing the structural properties of N,N-dimethylformamide-based ionic liquid: density-functional study. *Journal of Physical Chemistry B*, **2007**, 111, 11016-20	3.4	41
107	The synergic effects at the molecular level in CoS2 for selective hydrogenation of nitroarenes. *Green Chemistry*, **2018**, 20, 671-679	10	39
106	Iron chloride supported on pyridine-modified mesoporous silica: an efficient and reusable catalyst for the allylic oxidation of olefins with molecular oxygen. *Green Chemistry*, **2008**, 10, 827	10	39
105	PdZn intermetallic on a CN@ZnO hybrid as an efficient catalyst for the semihydrogenation of alkynols. *Journal of Catalysis*, **2017**, 350, 13-20	7.3	38
104	Tuning Anion-Functionalized Ionic Liquids for Improved SO2 Capture. *Angewandte Chemie*, **2013**, 125, 10814-10818	3.6	38
103	Different Weak C□H□□□O Contacts in N-Methylacetamide-Water System: Molecular Dynamics Simulations and NMR Experimental Study. *Journal of Physical Chemistry B*, **2004**, 108, 12596-12601	3.4	37
102	Correlation Analysis of the Substituent Electronic Effects on the Allylic H-Abstraction in Cyclohexene by Phthalimide-N-oxyl Radicals: a DFT Study. *Journal of Physical Chemistry B*, **2010**, 114, 4862-4869	3.4	36
101	A cobalt Schiff base with ionic substituents on the ligand as an efficient catalyst for the oxidation of 4-methyl guaiacol to vanillin. *Green Chemistry*, **2012**, 14, 2894	10	35
100	Highly Efficient Synthesis of Quinazoline-2,4(1H,3H)-diones from CO2 by Hydroxyl Functionalized Aprotic Ionic Liquids. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 5760-5765	8.3	34
99	Ultrafinely dispersed Pd nanoparticles on a CN@MgO hybrid as a bifunctional catalyst for upgrading bioderived compounds. *Green Chemistry*, **2014**, 16, 4371-4377	10	34
98	The structural organization in aqueous solutions of ionic liquids. *AICHE Journal*, **2009**, 55, 198-205	3.6	34
97	Effects of ionic liquids on the oxidation of 2,3,6-trimethylphenol to trimethyl-1,4-benzoquinone under atmospheric oxygen. *Catalysis Communications*, **2009**, 10, 725-727	3.2	30
96	Proton Transfer of Formamide + nH2O (n = 0□): Protective and Assistant Effect of the Water Molecule. *Journal of Physical Chemistry A*, **2004**, 108, 10219-10224	2.8	29
95	Preparation of dialkoxypropanes in simple ammonium ionic liquids. *Green Chemistry*, **2006**, 8, 1076	10	27
94	Efficient metal-free oxidation of ethylbenzene with molecular oxygen utilizing the synergistic combination of NHPI analogues. *Journal of Molecular Catalysis A*, **2015**, 402, 79-82		26
93	An environmentally benign catalytic oxidation of cholesteryl acetate with molecular oxygen by using N-hydroxyphthalimide. *Green Chemistry*, **2009**, 11, 2013	10	26

92	Metal and solvent-free oxidation of isophorone to ketoisophorone by molecular oxygen. *Catalysis Communications*, **2010**, 11, 758-762	3.2	24
91	Microscopic structures of ionic liquids 1-ethyl-3-methylimidazolium tetrafluoroborate in water probed by the relative chemical shift. *Science China Chemistry*, **2010**, 53, 1561-1565	7.9	24
90	Molecular Dynamics Simulations of Biotin in Aqueous Solution. *Journal of Physical Chemistry B*, **2004**, 108, 10131-10137	3.4	24
89	Equilibrium in Protic Ionic Liquids: The Degree of Proton Transfer and Thermodynamic Properties. *Journal of Physical Chemistry B*, **2018**, 122, 309-315	3.4	22
88	Theoretical studies on muti-hydroxyimides as highly efficient catalysts for aerobic oxidation. *ChemPhysChem*, **2013**, 14, 179-84	3.2	22
87	A relay identification fluorescence probe for Fe and phosphate anion and its applications. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 191, 172-179	4.4	21
86	A mild and efficient oxidation of 2,3,6-trimethylphenol to trimethyl-1,4-benzoquinone in ionic liquids. *Catalysis Communications*, **2008**, 9, 1979-1981	3.2	21
85	NMR and Excess Volumes Studies in DMF–Alcohol Mixtures. *Journal of Solution Chemistry*, **2002**, 31, 109-118	1.8	21
84	Recent progress in studies on polarity of ionic liquids. *Science China Chemistry*, **2016**, 59, 517-525	7.9	21
83	Magnetic nano-structured cobalt–cobalt oxide/nitrogen-doped carbon material as an efficient catalyst for aerobic oxidation of p -cresols. *Molecular Catalysis*, **2018**, 453, 121-131	3.3	21
82	Coulombic-enhanced hetero radical pairing interactions. *Nature Communications*, **2018**, 9, 1961	17.4	21
81	Acetylacetone–metal catalyst modified by pyridinium salt group applied to the NHPI-catalyzed oxidation of cholesteryl acetate. *Catalysis Science and Technology*, **2011**, 1, 1133	5.5	19
80	Synthesis of Mesoporous Fe?N/C Materials with High Catalytic Performance in the Oxygen Reduction Reaction. *ChemCatChem*, **2015**, 7, 2937-2944	5.2	18
79	The capture and simultaneous fixation of CO2 in the simulation of fuel gas by bifunctionalized ionic liquids. *International Journal of Hydrogen Energy*, **2016**, 41, 9175-9182	6.7	18
78	Reversible CO2 Capture by Conjugated Ionic Liquids through Dynamic Covalent Carbon-Oxygen Bonds. *ChemSusChem*, **2016**, 9, 2351-7	8.3	17
77	Molar Conductance of Sodium Bromide and Sodium Iodide in Methanol + Water at 298.15 K. *Journal of Chemical & Engineering Data*, **1997**, 42, 651-654	2.8	17
76	Insight into the Role of Additives in Catalytic Synthesis of Cyclohexylamine from Nitrobenzene. *Chinese Journal of Chemistry*, **2018**, 36, 1191-1196	4.9	17
75	Structure–reactivity landscape of N -hydroxyphthalimides with ionic-pair substituents as organocatalysts in aerobic oxidation. *Journal of Catalysis*, **2015**, 331, 76-85	7.3	16

74	Theoretical design of multi-nitroxyl organocatalysts with enhanced reactivity for aerobic oxidation. *ChemPhysChem*, **2014**, 15, 1673-80	3.2	16
73	Infrared spectroscopic study on chemical and phase equilibrium in triethylammonium acetate. *Science China Chemistry*, **2012**, 55, 1688-1694	7.9	16
72	Highly Efficient CO2 Capture by Imidazolium Ionic Liquids through a Reduction in the Formation of the Carbene□CO2 Complex. *Industrial & Engineering Chemistry Research*, **2017**, 56, 8066-8072	3.9	14
71	Selective One-Step Aerobic Oxidation of Cyclohexane to ?-Caprolactone Mediated by N-Hydroxyphthalimide (NHPI). *ChemCatChem*, **2019**, 11, 2260-2264	5.2	14
70	Reactivity and mechanism investigation of selective hydrogenation of 2,3,5-trimethylbenzoquinone on in situ generated metallic cobalt. *Catalysis Science and Technology*, **2016**, 6, 4503-4510	5.5	14
69	Effect of the Temperature and Coordination Atom on the Physicochemical Properties of Chelate-Based Ionic Liquids and Their Binary Mixtures with Water. *Journal of Chemical & Engineering Data*, **2014**, 59, 3960-3968	2.8	14
68	Prediction of Vapor□Liquid Equilibria of Alcohol□Hydrocarbon Systems by 1H NMR and Activity Coefficients at Infinite Dilution. *Industrial & Engineering Chemistry Research*, **2005**, 44, 408-415	3.9	14
67	The Polarity of Ionic Liquids: Relationship between Relative Permittivity and Spectroscopic Parameters of Probe. *Industrial & Engineering Chemistry Research*, **2019**, 58, 7352-7361	3.9	12
66	Highly Efficient and Reversible Nitric Oxide Capture by Functionalized Ionic Liquids through Multiple-Site Absorption. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 2990-2995	8.3	12
65	Synthesis and characterization of thermo- and pH-sensitive block copolymers bearing a biotin group at the poly(ethylene oxide) chain end. *Journal of Applied Polymer Science*, **2006**, 102, 3552-3558	2.9	12
64	Design and tuning of ionic liquid-based HNO donor through intramolecular hydrogen bond for efficient inhibition of tumor growth. *Science Advances*, **2020**, 6,	14.3	11
63	Restricting Effect of Solvent Aggregates on Distribution and Mobility of CuCl2 in Homogenous Catalysis. *ACS Catalysis*, **2019**, 9, 6588-6595	13.1	10
62	N-Hydroxyphthalimide (NHPI) Promoted Aerobic Baeyer-Villiger Oxidation in the Presence of Aldehydes. *ChemCatChem*, **2018**, 10, 4947-4952	5.2	10
61	Role of alkali in catalytic oxidation of p-cresols. *Journal of Molecular Catalysis A*, **2016**, 420, 45-49		10
60	Kinetic studies on the liquid-phase catalytic oxidation of 4-methyl guaiacol to vanillin. *Canadian Journal of Chemical Engineering*, **2017**, 95, 1544-1553	2.3	9
59	Tuning the Capture of CO through Entropic Effect Induced by Reversible Trans-Cis Isomerization of Light-Responsive Ionic Liquids. *Journal of Physical Chemistry Letters*, **2019**, 10, 3346-3351	6.4	9
58	Empirical study of physicochemical and spectral properties of Cu-containing chelate-based ionic liquids. *Physical Chemistry Chemical Physics*, **2018**, 20, 4109-4117	3.6	9
57	Design of Betaine Functional Catalyst for Efficient Copolymerization of Oxirane and CO2. *Macromolecules*, **2018**, 51, 6057-6062	5.5	9

56	Unexpected oxidation of Isophorone with molecular oxygen promoted by TEMPO. *RSC Advances*, **2014**, 4, 15590	3.7	9
55	Prediction of Vapor−Liquid Equilibria Data from CH Band Shifts of Raman Spectra and Activity Coefficients at Infinite Dilution in Some Aqueous Systems. *Industrial & Engineering Chemistry Research*, **2005**, 44, 6883-6887	3.9	9
54	Efficient capture of CO2 from flue gas at high temperature by tunable polyamine-based hybrid ionic liquids. *AICHE Journal*, **2020**, 66, e16779	3.6	9
53	Electron paramagnetic resonance studies of the chelate-based ionic liquid in different solvents. *Green Energy and Environment*, **2020**, 5, 341-346	5.7	9
52	Structures and Electronic Properties of Lithium Chelate-Based Ionic Liquids. *Journal of Physical Chemistry B*, **2016**, 120, 3904-13	3.4	9
51	Cross-linked reverse micelles with embedded water pools: a novel catalytic system based on amphiphilic block copolymers. *RSC Advances*, **2014**, 4, 38234-38240	3.7	8
50	Landscape of the structure-O-H bond dissociation energy relationship of oximes and hydroxylamines. *Physical Chemistry Chemical Physics*, **2017**, 19, 22309-22320	3.6	8
49	Dynamic Modification of Palladium Catalysts with Chain Alkylamines for the Selective Hydrogenation of Alkynes. *ACS Applied Materials & Interfaces*, **2021**, 13, 31775-31784	9.5	8
48	Highly efficient synthesis of alkylidene cyclic carbonates from low concentration CO2 using hydroxyl and azolate dual functionalized ionic liquids. *Green Chemistry*, **2021**, 23, 592-596	10	8
47	Modification of the Onsager Reaction Field and Its Application on Spectral Parameters. *ChemPhysChem*, **2017**, 18, 763-771	3.2	7
46	Density, Viscosity, Electrical Conductivity, and Surface Tension of Chelate-Based Ionic Liquids [C10mim][M(hfac)3] (M = Co, Ni, Cu) at Different Temperatures. *Journal of Chemical & Engineering Data*, **2019**, 64, 4264-4271	2.8	7
45	Highly Efficient Nitric Oxide Capture by Azole-Based Ionic Liquids through Multiple-Site Absorption. *Angewandte Chemie*, **2016**, 128, 14576-14580	3.6	7
44	Anion-Functionalized Pillararenes for Efficient Sulfur Dioxide Capture: Significant Effect of the Anion and the Cavity. *Chemistry - A European Journal*, **2017**, 23, 14143-14148	4.8	7
43	Elucidating Interactions between DMSO and Chelate-Based Ionic Liquids. *ChemPhysChem*, **2015**, 16, 3836-41	3.2	7
42	Exploring a new kind of aromatic hydrogen bond: hydrogen bonding to all-metal aromatic species. *New Journal of Chemistry*, **2005**, 29, 1295	3.6	7
41	The Effect of C4?H and C5?H on the Microstructure of Aqueous Solutions of 1-Alkyl-3-methylimidazolium Tetrafluoroborate Ionic Liquids. *ChemPhysChem*, **2015**, 16, 2861-2867	3.2	6
40	Synthesis and characterization of poly(dimethylamino ethyl methacrylate)−poly(ethylene oxide)−poly(dimethylamino ethyl methacrylate) triblock copolymers. *Journal of Applied Polymer Science*, **2009**, 114, 1551-1556	2.9	6
39	Isothermal and Isobaric Vapor−Liquid Equilibria of the Ternary System of 2,2-Dimethoxypropane + Acetone + Methanol. *Journal of Chemical & Engineering Data*, **2005**, 50, 1837-1840	2.8	6

38	Vapor–liquid Equilibria for the Binary Mixture α-Pinene + Octane. *Journal of Chemical & Engineering Data*, **2003**, 48, 1120-1121	2.8	6
37	Physicochemical Properties of the Binary Mixtures of CuII-Containing Chelate-Based Ionic Liquids with Linear Alcohols. *Industrial & Engineering Chemistry Research*, **2020**, 59, 897-904	3.9	6
36	Distinguishing ionic and radical mechanisms of hydroxylamine mediated electrocatalytic alcohol oxidation using NO-H bond dissociation energies. *Physical Chemistry Chemical Physics*, **2018**, 20, 28249-28256	3.6	6
35	Insight into the Co(II)/NaOH and Cu(II)/NaOH catalytic oxidation of 4-methyl guaiacol: Structures of catalysts and reaction pathways. *Molecular Catalysis*, **2017**, 428, 24-32	3.3	5
34	Insight into 2,3,6-Trimethylphenol oxidation by comparing the difference between cupric acetate and cupric chloride catalysis. *Molecular Catalysis*, **2019**, 472, 10-16	3.3	5
33	Aerobic Oxidation of 2-Methoxy-4-methylphenol to Vanillin Catalyzed by Cobalt/NaOH: Identification of CoOx(OH)y Nanoparticles as the True Catalyst. *ACS Catalysis*, **2018**, 8, 9103-9114	13.1	5
32	Significantly Enhanced Carbon Dioxide Capture by Anion-Functionalized Liquid Pillar[5]arene through Multiple-Site Interactions. *Industrial & Engineering Chemistry Research*, **2019**, 58, 16894-16900	3.9	5
31	1,5,7-Triazabicyclo[4.4.0]dec-5-ene Enhances Activity of Peroxide Intermediates in Phosphine-Free α-Hydroxylation of Ketones. *Angewandte Chemie - International Edition*, **2021**, 60, 6631-6638	16.4	5
30	Ultrahigh Nitric Oxide Capture by Tetrakis(azolyl)borate Ionic Liquid through Multiple-Sites Uniform Interaction. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 3357-3362	8.3	5
29	Oxidation of KA oil to caprolactone with molecular oxygen using N-hydroxyphthalimide-mediated Ce(NH4)2(NO3)6 catalyst. *Molecular Catalysis*, **2019**, 467, 24-29	3.3	4
28	The relationships of catalytic activity of metal Schiff base catalysts and the Hammett constants of their anion–cationic substituents on ligand. *Journal of Physical Organic Chemistry*, **2015**, 28, 570-574	2.1	4
27	Electronic effect of ionic-pair substituents. *Journal of Physical Organic Chemistry*, **2013**, 26, 460-466	2.1	4
26	Vapor–liquid Equilibria for the Binary Mixtures Dehydrolinalool + 1-Propanol and Dehydrolinalool + 1-Butanol. *Journal of Chemical & Engineering Data*, **2001**, 46, 1231-1234	2.8	4
25	Effects of ionicity and chain structure on the physicochemical properties of protic ionic liquids. *AICHE Journal*, **2020**, 66, e16982	3.6	4
24	Kinetics of Isophorone Synthesis via Self-Condensation of Supercritical Acetone. *Chemical Engineering and Technology*, **2016**, 39, 1867-1874	2	4
23	Selective Aerobic Oxidation of Secondary C (sp3)-H Bonds with NHPI/CAN Catalytic System. *Catalysis Letters*, **2021**, 151, 1663-1669	2.8	4
22	Diverse catalytic efficiency of nitroxyl radicals tuned by Lewis acids in the oxidation of hydrocarbons. *Catalysis Communications*, **2015**, 67, 31-34	3.2	3
21	Mass Transfer Reaction Kinetics of Isophorone Oxidation by Air in an Agitator Bubbling Reactor. *Chemical Engineering and Technology*, **2014**, 37, 1797-1804	2	3

20	Distribution of Spin Density on Phenoxyl Radicals Affects the Selectivity of Aerobic Oxygenation of Phenols. *Inorganic Chemistry*, **2020**, 59, 3562-3569	5.1	2
19	A mutually stabilized host-guest pair. *Science Advances*, **2019**, 5, eaax6707	14.3	2
18	A mixed order density functional theory for adhesive hard sphere fluid confined between two hard walls. *Journal of Chemical Physics*, **2001**, 115, 1115-1117	3.9	2
17	Metal-Free Synthesis of Sulfones and Sulfoxides through Aldehyde-Promoted Aerobic Oxidation of Sulfides. *Catalysis Letters*,1	2.8	2
16	A DFT investigation exploring the influence of lone electron pair on hyperfine structures of N-centered radicals. *Chemical Physics*, **2019**, 517, 13-23	2.3	2
15	Structural and electronic properties of Cu, Co, and Ni-containing chelate-based ionic liquids. *Physical Chemistry Chemical Physics*, **2020**, 22, 11417-11430	3.6	2
14	Theoretical studies on the proton-transfer reactions in propylene and pentadiene derivatives. *Structural Chemistry*, **2015**, 26, 587-597	1.8	1
13	ε-Caprolactone manufacture via efficient coupling Baeyer-Villiger oxidation with aerobic oxidation of alcohols. *Molecular Catalysis*, **2020**, 490, 110947	3.3	1
12	A Designed TEMPO-derivate Catalyst with Switchable Signals of EPR and Photoluminescence: Application in the Mechanism of Alcohol Oxidation. *ChemCatChem*, **2018**, 10, 3513-3519	5.2	1
11	Vapor−Liquid Equilibria for the Quaternary System Ethanol + Acetone + Benzene + Hexane. *Journal of Chemical & Engineering Data*, **1997**, 42, 655-657	2.8	1
10	Tuning the Basicity for Highly Efficient and Reversible Hydrogen Chloride Absorption to Develop a Green Acid Scavenger. *ACS Sustainable Chemistry and Engineering*,	8.3	1
9	Highly Efficient and Reversible Absorption and Oxidation of Low-Concentration Nitric Oxide by Functionalized Ionic Liquids. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 7154-7159	8.3	1
8	Aerobic α-hydroxylation of 2-Me-1-tetralone in 1-alkyl-3-methylimidazolium ionic liquids. *Physical Chemistry Chemical Physics*, **2021**, 23, 5864-5869	3.6	1
7	Special Mixing Behavior of Chelate-based Ionic Liquid with Methanol. *ChemPhysChem*, **2021**, 22, 2050-2057	3.2	1
6	Catalytic oxidation of α-substituted cyclohexanone with steric hindrance to 6-oxohexanoic acid involved during the total synthesis of (+)-biotin. *Applied Catalysis A: General*, **2021**, 624, 118304	5.1	1
5	1,5,7-Triazabicyclo[4.4.0]dec-5-ene Enhances Activity of Peroxide Intermediates in Phosphine-Free α-Hydroxylation of Ketones. *Angewandte Chemie*, **2021**, 133, 6705-6712	3.6	0
4	One-pot Baeyer−Villiger oxidation of cyclohexanone with in situ generated hydrogen peroxide over Sn-Beta zeolites. *Green Chemical Engineering*, **2021**, 2, 294-300	3	0
3	Phase and Chemical Equilibria of Biphasic Protic Ionic Liquid: Triethylamine−Acetic Acid. *Industrial & Engineering Chemistry Research*, **2021**, 60, 13719-13726	3.9	0

2 Elemental composition method for computation and analysis of simultaneous chemical and phase equilibrium. *Science Bulletin*, **2000**, 45, 2241-2246

1 Application of electron paramagnetic resonance in solution property. *Scientia Sinica Chimica*, **2022**, 52, 647-654 1.6