Buxing Han

List of Publications by Citations

559 papers	26,253 citations	81 h-index	137 g-index
599 ext. papers	30,922 ext. citations	8.5 avg, IF	7.37 L-index

#	Paper	IF	Citations
559	Green carbon science: scientific basis for integrating carbon resource processing, utilization, and recycling. *Angewandte Chemie - International Edition*, **2013**, 52, 9620-33	16.4	580
558	Fundamentals and Challenges of Electrochemical CO2 Reduction Using Two-Dimensional Materials. *CheM*, **2017**, 3, 560-587	16.2	513
557	Catalytic Transformation of Lignocellulose into Chemicals and Fuel Products in Ionic Liquids. *Chemical Reviews*, **2017**, 117, 6834-6880	68.1	484
556	Selective phenol hydrogenation to cyclohexanone over a dual supported Pd-Lewis acid catalyst. *Science*, **2009**, 326, 1250-2	33.3	458
555	Desulfurization of flue gas: SO(2) absorption by an ionic liquid. *Angewandte Chemie - International Edition*, **2004**, 43, 2415-7	16.4	453
554	Efficient conversion of glucose into 5-hydroxymethylfurfural catalyzed by a common Lewis acid SnCl4 in an ionic liquid. *Green Chemistry*, **2009**, 11, 1746	10	402
553	CO(2) cycloaddition reactions catalyzed by an ionic liquid grafted onto a highly cross-linked polymer matrix. *Angewandte Chemie - International Edition*, **2007**, 46, 7255-8	16.4	401
552	MOF-5/n-Bu4NBr: an efficient catalyst system for the synthesis of cyclic carbonates from epoxides and CO2 under mild conditions. *Green Chemistry*, **2009**, 11, 1031	10	380
551	Preparation of titania/carbon nanotube composites using supercritical ethanol and their photocatalytic activity for phenol degradation under visible light irradiation. *Carbon*, **2007**, 45, 1795-1801	10.4	320
550	Microemulsions with ionic liquid polar domains. *Physical Chemistry Chemical Physics*, **2004**, 6, 2914	3.6	311
549	Adhesion and proliferation of OCT-1 osteoblast-like cells on micro- and nano-scale topography structured poly(L-lactide). *Biomaterials*, **2005**, 26, 4453-9	15.6	297
548	Facile synthesis of high quality TiO2 nanocrystals in ionic liquid via a microwave-assisted process. *Journal of the American Chemical Society*, **2007**, 129, 6362-3	16.4	288
547	TX-100/water/1-butyl-3-methylimidazolium hexafluorophosphate microemulsions. *Langmuir*, **2005**, 21, 5681-4	4	288
546	Conversion of fructose to 5-hydroxymethylfurfural using ionic liquids prepared from renewable materials. *Green Chemistry*, **2008**, 10, 1280	10	284
545	Solubility of CO2 in a Choline Chloride + Urea Eutectic Mixture. *Journal of Chemical & Engineering Data*, **2008**, 53, 548-550	2.8	256
544	Metal-organic framework nanospheres with well-ordered mesopores synthesized in an ionic liquid/CO2/surfactant system. *Angewandte Chemie - International Edition*, **2011**, 50, 636-9	16.4	249
543	Mannich reaction using acidic ionic liquids as catalysts and solvents. *Green Chemistry*, **2004**, 6, 75	10	249

542	Hydrogenation of carbon dioxide is promoted by a task-specific ionic liquid. *Angewandte Chemie - International Edition*, **2008**, 47, 1127-9	16.4	244
541	Highly efficient synthesis of cyclic carbonates from CO2 and epoxides over cellulose/KI. *Chemical Communications*, **2011**, 47, 2131-3	5.8	241
540	Conversion of glucose and cellulose into value-added products in water and ionic liquids. *Green Chemistry*, **2013**, 15, 2619	10	228
539	Sonochemical formation of single-crystalline gold nanobelts. *Angewandte Chemie - International Edition*, **2006**, 45, 1116-9	16.4	217
538	Absorption of CO2 by ionic liquid/polyethylene glycol mixture and the thermodynamic parameters. *Green Chemistry*, **2008**, 10, 879	10	210
537	Pd nanoparticles immobilized on molecular sieves by ionic liquids: heterogeneous catalysts for solvent-free hydrogenation. *Angewandte Chemie - International Edition*, **2004**, 43, 1397-9	16.4	207
536	Supported choline chloride/urea as a heterogeneous catalyst for chemical fixation of carbon dioxide to cyclic carbonates. *Green Chemistry*, **2007**, 9, 169-172	10	205
535	A cyclic voltammetric technique for the detection of micro-regions of bmimPF6/Tween 20/H2O microemulsions and their performance characterization by UV-Vis spectroscopy. *Green Chemistry*, **2006**, 8, 43-49	10	197
534	Transformation of atmospheric CO2 catalyzed by protic ionic liquids: efficient synthesis of 2-oxazolidinones. *Angewandte Chemie - International Edition*, **2015**, 54, 5399-403	16.4	190
533	Ru nanoparticles immobilized on montmorillonite by ionic liquids: a highly efficient heterogeneous catalyst for the hydrogenation of benzene. *Angewandte Chemie - International Edition*, **2005**, 45, 266-9	16.4	181
532	Highly efficient electrochemical reduction of CO to CH in an ionic liquid using a metal-organic framework cathode. *Chemical Science*, **2016**, 7, 266-273	9.4	177
531	Hydrogenation of olefins using ligand-stabilized palladium nanoparticles in an ionic liquid. *Chemical Communications*, **2003**, 1654	5.8	176
530	Molybdenum-Bismuth Bimetallic Chalcogenide Nanosheets for Highly Efficient Electrocatalytic Reduction of Carbon Dioxide to Methanol. *Angewandte Chemie - International Edition*, **2016**, 55, 6771-5	16.4	176
529	Efficient SO2 absorption by renewable choline chloride–glycerol deep eutectic solvents. *Green Chemistry*, **2013**, 15, 2261	10	173
528	Porous Zirconium-Phytic Acid Hybrid: a Highly Efficient Catalyst for Meerwein-Ponndorf-Verley Reductions. *Angewandte Chemie - International Edition*, **2015**, 54, 9399-403	16.4	169
527	Direct conversion of inulin to 5-hydroxymethylfurfural in biorenewable ionic liquids. *Green Chemistry*, **2009**, 11, 873	10	169
526	Study on the phase behaviors, viscosities, and thermodynamic properties of CO2/[C(4)mim][PF(6)]/methanol system at elevated pressures. *Chemistry - A European Journal*, **2003**, 9, 3897-903	4.8	161
525	Carbon dioxide electroreduction to C products over copper-cuprous oxide derived from electrosynthesized copper complex. *Nature Communications*, **2019**, 10, 3851	17.4	159

524	Dispersion of graphene sheets in ionic liquid [bmim][PF6] stabilized by an ionic liquid polymer. *Chemical Communications*, **2010**, 46, 386-8	5.8	157
523	Synthesis of cyclic carbonates from epoxides and CO2 catalyzed by potassium halide in the presence of Ecyclodextrin. *Green Chemistry*, **2008**, 10, 1337	10	156
522	Very highly efficient reduction of CO to CH using metal-free N-doped carbon electrodes. *Chemical Science*, **2016**, 7, 2883-2887	9.4	152
521	Solvent-free synthesis of substituted ureas from CO2 and amines with a functional ionic liquid as the catalyst. *Green Chemistry*, **2008**, 10, 465	10	152
520	Highly Efficient Electroreduction of CO to Methanol on Palladium-Copper Bimetallic Aerogels. *Angewandte Chemie - International Edition*, **2018**, 57, 14149-14153	16.4	151
519	Efficient Reduction of CO2 into Formic Acid on a Lead or Tin Electrode using an Ionic Liquid Catholyte Mixture. *Angewandte Chemie - International Edition*, **2016**, 55, 9012-6	16.4	149
518	Cycloaddition of CO2 to epoxides catalyzed by imidazolium-based polymeric ionic liquids. *Green Chemistry*, **2013**, 15, 1584	10	147
517	Water-Enhanced Synthesis of Higher Alcohols from CO2 Hydrogenation over a Pt/Co3O4 Catalyst under Milder Conditions. *Angewandte Chemie - International Edition*, **2016**, 55, 737-41	16.4	145
516	Manganese acting as a high-performance heterogeneous electrocatalyst in carbon dioxide reduction. *Nature Communications*, **2019**, 10, 2980	17.4	144
515	MoP Nanoparticles Supported on Indium-Doped Porous Carbon: Outstanding Catalysts for Highly Efficient CO Electroreduction. *Angewandte Chemie - International Edition*, **2018**, 57, 2427-2431	16.4	142
514	Imidazolium-Based Ionic Liquids Catalyzed Formylation of Amines Using Carbon Dioxide and Phenylsilane at Room Temperature. *ACS Catalysis*, **2015**, 5, 4989-4993	13.1	141
513	Highly mesoporous metal-organic framework assembled in a switchable solvent. *Nature Communications*, **2014**, 5, 4465	17.4	137
512	Selective electroreduction of carbon dioxide to methanol on copper selenide nanocatalysts. *Nature Communications*, **2019**, 10, 677	17.4	136
511	A new porous Zr-containing catalyst with a phenate group: an efficient catalyst for the catalytic transfer hydrogenation of ethyl levulinate to Evalerolactone. *Green Chemistry*, **2015**, 17, 1626-1632	10	131
510	The catalytic mechanism of KI and the co-catalytic mechanism of hydroxyl substances for cycloaddition of CO2 with propylene oxide. *Green Chemistry*, **2012**, 14, 2410	10	130
509	Functional ionic liquid from biorenewable materials: synthesis and application as a catalyst in direct aldol reactions. *Tetrahedron Letters*, **2007**, 48, 5613-5617	2	130
508	Hydrogenation of CO2 to formic acid promoted by a diamine-functionalized ionic liquid. *ChemSusChem*, **2009**, 2, 234-8	8.3	124
507	Zinc(II)-catalyzed reactions of carbon dioxide and propargylic alcohols to carbonates at room temperature. *Green Chemistry*, **2016**, 18, 382-385	10	118

506	Reversible capture of SO2 through functionalized ionic liquids. *ChemSusChem*, **2013**, 6, 1191-5	8.3	118
505	Immobilization of Pd nanoparticles with functional ionic liquid grafted onto cross-linked polymer for solvent-free Heck reaction. *Green Chemistry*, **2010**, 12, 65-69	10	116
504	Cobalt catalysts: very efficient for hydrogenation of biomass-derived ethyl levulinate to gamma-valerolactone under mild conditions. *Green Chemistry*, **2014**, 16, 3870-3875	10	110
503	CO2 Cycloaddition Reactions Catalyzed by an Ionic Liquid Grafted onto a Highly Cross-Linked Polymer Matrix. *Angewandte Chemie*, **2007**, 119, 7393-7396	3.6	110
502	Hydrogenolysis of glycerol catalyzed by Ru-Cu bimetallic catalysts supported on clay with the aid of ionic liquids. *Green Chemistry*, **2009**, 11, 1000	10	108
501	Reverse micelles in carbon dioxide with ionic-liquid domains. *Angewandte Chemie - International Edition*, **2007**, 46, 3313-5	16.4	107
500	Große Kohlenstoffwissenschaft: eine wissenschaftliche Grundlage für das Verknüpfen von Verarbeitung, Nutzung und Recycling der Kohlenstoffressourcen. *Angewandte Chemie*, **2013**, 125, 9798-9812	3.6	106
499	Highly Electrocatalytic Ethylene Production from CO on Nanodefective Cu Nanosheets. *Journal of the American Chemical Society*, **2020**, 142, 13606-13613	16.4	106
498	Surfactant-directed assembly of mesoporous metal-organic framework nanoplates in ionic liquids. *Chemical Communications*, **2012**, 48, 8688-90	5.8	104
497	Efficient synthesis of quinazoline-2,4(1H,3H)-diones from CO2 using ionic liquids as a dual solvent–catalyst at atmospheric pressure. *Green Chemistry*, **2014**, 16, 221-225	10	103
496	Synthesis of Functional Nanomaterials in Ionic Liquids. *Advanced Materials*, **2016**, 28, 1011-30	24	102
495	Hexagonal liquid crystalline phases formed in ternary systems of Brij 97-water-ionic liquids. *Langmuir*, **2005**, 21, 4931-7	4	101
494	Solvent-free Heck reaction catalyzed by a recyclable Pd catalyst supported on SBA-15 via an ionic liquid. *Green Chemistry*, **2008**, 10, 59-66	10	100
493	Direct aldol reactions catalyzed by 1,1,3,3-tetramethylguanidine lactate without solvent. *Green Chemistry*, **2005**, 7, 514	10	99
492	Preparation of Room-Temperature Ionic Liquids by Neutralization of 1,1,3,3-Tetramethylguanidine with Acids and their Use as Media for Mannich Reaction. *Synthetic Communications*, **2004**, 34, 3083-3089	1.7	99
491	Synthesis of acetic acid via methanol hydrocarboxylation with CO2 and H2. *Nature Communications*, **2016**, 7, 11481	17.4	98
490	Ru nanoparticles immobilized on metal–organic framework nanorods by supercritical CO2-methanol solution: highly efficient catalyst. *Green Chemistry*, **2011**, 13, 2078	10	98
489	Eosin Y-Functionalized Conjugated Organic Polymers for Visible-Light-Driven CO Reduction with H O to CO with High Efficiency. *Angewandte Chemie - International Edition*, **2019**, 58, 632-636	16.4	96

488	MIL-125-NH@TiO Core-Shell Particles Produced by a Post-Solvothermal Route for High-Performance Photocatalytic H Production. *ACS Applied Materials & Interfaces*, **2018**, 10, 16418-16423	9.5	91
487	Investigation of Nonionic Surfactant Dynol-604 Based Reverse Microemulsions Formed in Supercritical Carbon Dioxide. *Langmuir*, **2001**, 17, 8040-8043	4	91
486	Metalated Mesoporous Poly(triphenylphosphine) with Azo Functionality: Efficient Catalysts for CO2 Conversion. *ACS Catalysis*, **2016**, 6, 1268-1273	13.1	89
485	Switching the basicity of ionic liquids by CO2. *Green Chemistry*, **2008**, 10, 1142	10	85
484	Large-scale production of high-quality graphene using glucose and ferric chloride. *Chemical Science*, **2014**, 5, 4656-4660	9.4	84
483	Efficient synthesis of quinazoline-2,4(1H,3H)-diones from CO2 and 2-aminobenzonitriles in water without any catalyst. *Green Chemistry*, **2013**, 15, 1485	10	83
482	Pd nanoparticles immobilized on sepiolite by ionic liquids: efficient catalysts for hydrogenation of alkenes and Heck reactions. *Green Chemistry*, **2009**, 11, 96-101	10	83
481	Ionic Liquid-Catalyzed C S Bond Construction using CO2 as a C1 Building Block under Mild Conditions: A Metal-Free Route to Synthesis of Benzothiazoles. *ACS Catalysis*, **2015**, 5, 6648-6652	13.1	82
480	One-pot conversion of CO2 and glycerol to value-added products using propylene oxide as the coupling agent. *Green Chemistry*, **2012**, 14, 1743	10	82
479	One-step synthesis of highly efficient nanocatalysts on the supports with hierarchical pores using porous ionic liquid-water gel. *Journal of the American Chemical Society*, **2014**, 136, 3768-71	16.4	80
478	Preparation of catalytic materials using ionic liquids as the media and functional components. *Advanced Materials*, **2014**, 26, 6810-27	24	80
477	Microcalorimetry Study of Interaction between Ionic Surfactants and Hydrophobically Modified Polymers in Aqueous Solutions. *Langmuir*, **1997**, 13, 3119-3123	4	79
476	Highly Efficient Nanocatalysts Supported on Hollow Polymer Nanospheres: Synthesis, Characterization, and Applications. *Journal of Physical Chemistry C*, **2008**, 112, 774-780	3.8	79
475	Conductivities and Viscosities of the Ionic Liquid [bmim][PF6] + Water + Ethanol and [bmim][PF6] + Water + Acetone Ternary Mixtures. *Journal of Chemical & Engineering Data*, **2003**, 48, 1315-1317	2.8	78
474	Biomass-derived valerolactone as an efficient solvent and catalyst for the transformation of CO2 to formamides. *Green Chemistry*, **2016**, 18, 3956-3961	10	77
473	Ionic Liquid-Assisted Immobilization of Rh on Attapulgite and Its Application in Cyclohexene Hydrogenation. *Journal of Physical Chemistry C*, **2007**, 111, 2185-2190	3.8	76
472	Novel microemulsions: ionic liquid-in-ionic liquid. *Chemical Communications*, **2007**, 2497-9	5.8	76
471	Fabrication and characterization of magnetic carbon nanotube composites. *Journal of Materials Chemistry*, **2005**, 15, 4497		76

470	Synthesis of ketones from biomass-derived feedstock. *Nature Communications*, **2017**, 8, 14190	17.4	75
469	Efficient hydrogenolysis of 5-hydroxymethylfurfural to 2,5-dimethylfuran over a cobalt and copper bimetallic catalyst on N-graphene-modified Al2O3. *Green Chemistry*, **2016**, 18, 6222-6228	10	75
468	Shape and size controlled synthesis of MOF nanocrystals with the assistance of ionic liquid mircoemulsions. *Langmuir*, **2013**, 29, 13168-74	4	75
467	Synthesis of liquid fuel via direct hydrogenation of CO. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 12654-12659	11.5	74
466	Supercritical or compressed CO2 as a stimulus for tuning surfactant aggregations. *Accounts of Chemical Research*, **2013**, 46, 425-33	24.3	74
465	Catalytic hydroxylation of benzene to phenol with hydrogen peroxide using catalysts based on molecular sieves. *New Journal of Chemistry*, **2013**, 37, 1654	3.6	74
464	Dual-ionic liquid system: an efficient catalyst for chemical fixation of CO2 to cyclic carbonates under mild conditions. *Green Chemistry*, **2018**, 20, 2990-2994	10	73
463	Highly efficient synthesis of cyclic carbonates from CO2 and epoxides catalyzed by KI/lecithin. *Catalysis Today*, **2012**, 183, 130-135	5.3	73
462	Doping palladium with tellurium for the highly selective electrocatalytic reduction of aqueous CO to CO. *Chemical Science*, **2018**, 9, 483-487	9.4	73
461	Ionic liquid accelerates the crystallization of Zr-based metal-organic frameworks. *Nature Communications*, **2017**, 8, 175	17.4	72
460	Visible-Light-Driven Photoreduction of CO2 to CH4 over N,O,P-Containing Covalent Organic Polymer Submicrospheres. *ACS Catalysis*, **2018**, 8, 4576-4581	13.1	71
459	Large-scale production of self-assembled SnO2 nanospheres and their application in high-performance chemiluminescence sensors for hydrogen sulfide gas. *Journal of Materials Chemistry*, **2007**, 17, 1791		71
458	Polypropylene/Silica Nanocomposites Prepared by in-Situ Sol□el Reaction with the Aid of CO2. *Macromolecules*, **2005**, 38, 5617-5624	5.5	71
457	Boosting CO Electroreduction on N,P-Co-doped Carbon Aerogels. *Angewandte Chemie - International Edition*, **2020**, 59, 11123-11129	16.4	70
456	Task-specific ionic liquid and CO-cocatalysed efficient hydration of propargylic alcohols to □-hydroxy ketones. *Chemical Science*, **2015**, 6, 2297-2301	9.4	70
455	Ru□n supported on hydroxyapatite as an effective catalyst for partial hydrogenation of benzene. *Green Chemistry*, **2013**, 15, 152-159	10	67
454	Photocatalytic CO Transformation to CH by Ag/Pd Bimetals Supported on N-Doped TiO Nanosheet. *ACS Applied Materials & Interfaces*, **2018**, 10, 24516-24522	9.5	67
453	Synthesis of mesoporous SrCO3 spheres and hollow CaCO3 spheres in room-temperature ionic liquid. *Microporous and Mesoporous Materials*, **2005**, 83, 145-149	5.3	66

452	Highly effective photoreduction of CO to CO promoted by integration of CdS with molecular redox catalysts through metal-organic frameworks. *Chemical Science*, **2018**, 9, 8890-8894	9.4	66
451	Aqueous CO Reduction with High Efficiency Using Co(OH) -Supported Atomic Ir Electrocatalysts. *Angewandte Chemie - International Edition*, **2019**, 58, 4669-4673	16.4	65
450	Synthesis and characterization of TiO2montmorillonite nanocomposites and their application for removal of methylene blue. *Journal of Materials Chemistry*, **2006**, 16, 579-584		65
449	Highly selective photocatalytic oxidation of biomass-derived chemicals to carboxyl compounds over Au/TiO2. *Green Chemistry*, **2017**, 19, 1075-1081	10	64
448	The highly selective aerobic oxidation of cyclohexane to cyclohexanone and cyclohexanol over V2O5@TiO2 under simulated solar light irradiation. *Green Chemistry*, **2017**, 19, 311-318	10	63
447	Efficient and Mild Transfer Hydrogenolytic Cleavage of Aromatic Ether Bonds in Lignin-Derived Compounds over Ru/C. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 2872-2877	8.3	63
446	Hydrogenation of Carbon Dioxide is Promoted by a Task-Specific Ionic Liquid. *Angewandte Chemie*, **2008**, 120, 1143-1145	3.6	63
445	Ambient Reductive Amination of Levulinic Acid to Pyrrolidones over Pt Nanocatalysts on Porous TiO Nanosheets. *Journal of the American Chemical Society*, **2019**, 141, 4002-4009	16.4	62
444	Solubility of Ls-36 and Ls-45 Surfactants in Supercritical CO2and Loading Water in the CO2/Water/Surfactant Systems. *Langmuir*, **2002**, 18, 3086-3089	4	62
443	Highly Efficient Electroreduction of CO to C2+ Alcohols on Heterogeneous Dual Active Sites. *Angewandte Chemie - International Edition*, **2020**, 59, 16459-16464	16.4	61
442	Copper-catalyzed N-formylation of amines with CO2 under ambient conditions. *RSC Advances*, **2016** , 6, 32370-32373	3.7	61
441	The dispersion of carbon nanotubes in water with the aid of very small amounts of ionic liquid. *Chemical Communications*, **2009**, 1897-9	5.8	61
440	Design of a Cu(I)/C-doped boron nitride electrocatalyst for efficient conversion of CO2 into acetic acid. *Green Chemistry*, **2017**, 19, 2086-2091	10	60
439	Highly selective hydrogenation of CO into C alcohols by homogeneous catalysis. *Chemical Science*, **2015**, 6, 5685-5689	9.4	60
438	Natural Product Glycine Betaine as an Efficient Catalyst for Transformation of CO2 with Amines to Synthesize N-Substituted Compounds. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 7086-7092	8.3	60
437	Control Synthesis of Silver Nanosheets, Chainlike Sheets, and Microwires via a Simple Solvent-thermal Method. *Crystal Growth and Design*, **2007**, 7, 900-904	3.5	60
436	High-internal-phase emulsions stabilized by metal-organic frameworks and derivation of ultralight metal-organic aerogels. *Scientific Reports*, **2016**, 6, 21401	4.9	59
435	Micropolarity and aggregation behavior in ionic liquid + organic solvent solutions. *Fluid Phase Equilibria*, **2006**, 248, 211-216	2.5	59

434	Recovery of Nanoparticles from (EO)8(PO)50(EO)8/p-Xylene/H2O Microemulsions by Tuning the Temperature. *Langmuir*, **2003**, 19, 8611-8614	4	59
433	Nonaqueous microemulsion-containing ionic liquid [bmim][PF6] as polar microenvironment. *Colloid and Polymer Science*, **2005**, 283, 1371-1375	2.4	59
432	Synthesizing Ag Nanoparticles of Small Size on a Hierarchical Porosity Support for the Carboxylative Cyclization of Propargyl Alcohols with CO2 under Ambient Conditions. *Chemistry - A European Journal*, **2015**, 21, 15924-8	4.8	58
431	Seeding Growth of Pd/Au Bimetallic Nanoparticles on Highly Cross-Linked Polymer Microspheres with Ionic Liquid and Solvent-Free Hydrogenation. *Journal of Physical Chemistry C*, **2010**, 114, 3396-3400	3.8	58
430	Synthesis of dimethylformamide from CO2, H2 and dimethylamine over Cu/ZnO. *Chemical Communications*, **2010**, 46, 5770-2	5.8	58
429	Study of ethylene glycol/TX-100/ionic liquid microemulsions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 302, 211-215	5.1	58
428	A Novel Method to Immobilize Ru Nanoparticles on SBA-15 Firmly by Ionic Liquid and Hydrogenation of Arene. *Catalysis Letters*, **2005**, 103, 59-62	2.8	58
427	Synthesis of formamides containing unsaturated groups by N-formylation of amines using CO2 with H2. *Green Chemistry*, **2017**, 19, 196-201	10	57
426	A green and effective method to synthesize ionic liquids: supercritical CO2 route. *Green Chemistry*, **2005**, 7, 701	10	57
425	Selectively transform lignin into value-added chemicals. *Chinese Chemical Letters*, **2019**, 30, 15-24	8.1	57
424	Highly selective oxidation of cyclohexene to 2-cyclohexene-1-one in water using molecular oxygen over Fe□Co□-C3N4. *Catalysis Science and Technology*, **2016**, 6, 193-200	5.5	56
423	Free radical reaction promoted by ionic liquid: a route for metal-free oxidation depolymerization of lignin model compound and lignin. *Chemical Communications*, **2015**, 51, 4028-31	5.8	56
422	Solvent determines the formation and properties of metal□rganic frameworks. *RSC Advances*, **2015**, 5, 37691-37696	3.7	56
421	Very efficient conversion of glucose to 5-hydroxymethylfurfural in DBU-based ionic liquids with benzenesulfonate anion. *Green Chemistry*, **2014**, 16, 3935-3941	10	56
420	Facile one-pot synthesis of VxOy@C catalysts using sucrose for the direct hydroxylation of benzene to phenol. *Green Chemistry*, **2013**, 15, 1150	10	55
419	Effect of CO2 on conversion of inulin to 5-hydroxymethylfurfural and propylene oxide to 1,2-propanediol in water. *Green Chemistry*, **2010**, 12, 1215	10	55
418	Enhancing the electrocatalytic activity of CoO for the oxidation of 5-hydroxymethylfurfural by introducing oxygen vacancies. *Green Chemistry*, **2020**, 22, 843-849	10	55
417	Porous Hafnium Phosphonate: Novel Heterogeneous Catalyst for Conversion of Levulinic Acid and Esters into □Valerolactone. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 6231-6236	8.3	54

416	Synthesis of Supported Ultrafine Non-noble Subnanometer-Scale Metal Particles Derived from Metal-Organic Frameworks as Highly Efficient Heterogeneous Catalysts. *Angewandte Chemie - International Edition*, **2016**, 55, 1080-4	16.4	54
415	Selective Utilization of the Methoxy Group in Lignin to Produce Acetic Acid. *Angewandte Chemie - International Edition*, **2017**, 56, 14868-14872	16.4	53
414	Wacker oxidation of 1-hexene in 1-n-butyl-3-methylimidazolium hexafluorophosphate ([bmim][PF6]), supercritical (SC) CO2, and SC CO2/[bmim][PF6] mixed solvent. *New Journal of Chemistry*, **2002**, 26, 1246-1248	3.6	53
413	One-step synthesis of ultrathin Co(OH) nanomeshes and their high electrocatalytic activity toward the oxygen evolution reaction. *Chemical Communications*, **2018**, 54, 4045-4048	5.8	52
412	Study on guanidine-based task-specific ionic liquids as catalysts for direct aldol reactions without solvent. *New Journal of Chemistry*, **2006**, 30, 736	3.6	52
411	Tri-phase behavior of ionic liquid water CO2 system at elevated pressures. *Physical Chemistry Chemical Physics*, **2004**, 6, 5051-5055	3.6	52
410	Hollow Metal-Organic-Framework-Mediated In Situ Architecture of Copper Dendrites for Enhanced CO Electroreduction. *Angewandte Chemie - International Edition*, **2020**, 59, 8896-8901	16.4	51
409	Ru catalyst supported on bentonite for partial hydrogenation of benzene to cyclohexene. *Journal of Molecular Catalysis A*, **2012**, 355, 174-179		50
408	Transformation of Atmospheric CO2 Catalyzed by Protic Ionic Liquids: Efficient Synthesis of 2-Oxazolidinones. *Angewandte Chemie*, **2015**, 127, 5489-5493	3.6	50
407	Preparation of silica microrods with nano-sized pores in ionic liquid microemulsions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2006**, 286, 117-120	5.1	50
406	Efficient Reduction of CO2 into Formic Acid on a Lead or Tin Electrode using an Ionic Liquid Catholyte Mixture. *Angewandte Chemie*, **2016**, 128, 9158-9162	3.6	49
405	Fabrication of 2D metal organic framework nanosheets with tailorable thickness using bio-based surfactants and their application in catalysis. *Green Chemistry*, **2019**, 21, 54-58	10	48
404	The physicochemical properties of some imidazolium-based ionic liquids and their binary mixtures. *Science China Chemistry*, **2012**, 55, 1509-1518	7.9	47
403	Effect of dissolved CO2 on the conductivity of the ionic liquid [bmim][PF6]. *New Journal of Chemistry*, **2003**, 27, 333-336	3.6	47
402	A route to convert CO2: synthesis of 3,4,5-trisubstituted oxazolones. *Green Chemistry*, **2015**, 17, 1219-1225	10	46
401	High-efficiency exfoliation of layered materials into 2D nanosheets in switchable CO2/Surfactant/H2O system. *Scientific Reports*, **2015**, 5, 16764	4.9	46
400	A new method to recover the nanoparticles from reverse micelles: recovery of ZnS nanoparticles synthesized in reverse micelles by compressed CO2. *Chemical Communications*, **2001**, 2724-2725	5.8	46
399	Highly efficient hydrogenation of levulinic acid into 2-methyltetrahydrofuran over Ni Cu/Al2O3 ZrO2 bifunctional catalysts. *Green Chemistry*, **2019**, 21, 606-613	10	45

398	Metal□Organic Framework Nanospheres with Well-Ordered Mesopores Synthesized in an Ionic Liquid/CO2/Surfactant System. *Angewandte Chemie*, **2011**, 123, 662-665	3.6	45
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