

Xingbang Hu

List of Publications by Year in descending order

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114
papers

4,205
citations

81900

39
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128289

60
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116
all docs

116
docs citations

116
times ranked

3246
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption and Activation of O ₂ on Nitrogen-Doped Carbon Nanotubes. Journal of Physical Chemistry C, 2010, 114, 9603-9607.	3.1	164
2	Gold-Catalyzed Hydroarylation of Alkenes with Dialkylanilines. Journal of the American Chemical Society, 2014, 136, 13594-13597.	13.7	139
3	Thermodynamic validation of 1-alkyl-3-methylimidazolium carboxylates as task-specific ionic liquids for H ₂ S absorption. AIChE Journal, 2013, 59, 2227-2235.	3.6	135
4	Protic ionic liquids for the selective absorption of H ₂ S from CO ₂ : Thermodynamic analysis. AIChE Journal, 2014, 60, 4232-4240.	3.6	123
5	SO ₂ absorption in acid salt ionic liquids/sulfolane binary mixtures: Experimental study and thermodynamic analysis. Chemical Engineering Journal, 2014, 237, 478-486.	12.7	121
6	Highly selective absorption separation of H ₂ S and CO ₂ from CH ₄ by novel azole-based protic ionic liquids. AIChE Journal, 2020, 66, e16936.	3.6	105
7	Hydrophobic protic ionic liquids tethered with tertiary amine group for highly efficient and selective absorption of H ₂ S from CO ₂ . AIChE Journal, 2016, 62, 4480-4490.	3.6	102
8	Air-stable (CAAC)CuCl and (CAAC)CuBH ₄ Complexes as Catalysts for the Hydrolytic Dehydrogenation of BH ₃ NH ₃ . Angewandte Chemie - International Edition, 2015, 54, 6008-6011.	13.8	95
9	Absorption of SO ₂ in aqueous solutions of mixed hydroxylammonium dicarboxylate ionic liquids. Chemical Engineering Journal, 2013, 215-216, 36-44.	12.7	92
10	Facilitated separation of CO ₂ and SO ₂ through supported liquid membranes using carboxylate-based ionic liquids. Journal of Membrane Science, 2014, 471, 227-236.	8.2	91
11	Tandem copper hydride-Lewis pair catalysed reduction of carbon dioxide into formate with dihydrogen. Nature Catalysis, 2018, 1, 743-747.	34.4	88
12	Direct Synthesis of Dimethyl Carbonate from Carbon Dioxide and Methanol at Room Temperature Using Imidazolium Hydrogen Carbonate Ionic Liquid as a Recyclable Catalyst and Dehydrant. ChemSusChem, 2017, 10, 2046-2052.	6.8	83
13	Hydration of alkynes at room temperature catalyzed by gold(isocyanide) compounds. Green Chemistry, 2015, 17, 532-537.	9.0	79
14	Unexpectedly efficient SO ₂ capture and conversion to sulfur in novel imidazole-based deep eutectic solvents. Chemical Communications, 2018, 54, 8964-8967.	4.1	77
15	Kinetics for the Esterification Reaction of <i>n</i> -Butanol with Acetic Acid Catalyzed by Noncorrosive Brønsted Acidic Ionic Liquids. Industrial & Engineering Chemistry Research, 2011, 50, 1989-1996.	3.7	73
16	Low-viscous fluorine-substituted phenolic ionic liquids with high performance for capture of CO ₂ . Chemical Engineering Journal, 2015, 274, 30-38.	12.7	73
17	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.	2.6	72
18	Task-specific ionic liquids as absorbents and catalysts for efficient capture and conversion of H ₂ S into value-added mercaptan acids. Chemical Engineering Journal, 2021, 408, 127866.	12.7	72

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19	Selective separation of H ₂ S and CO ₂ from CH ₄ by supported ionic liquid membranes. <i>Journal of Membrane Science</i> , 2017, 543, 282-287.	8.2	71
20	Comparative Study of the Solubilities of SO ₂ in Five Low Volatile Organic Solvents (Sulfolane, Ethylene Glycol, Propylene Carbonate, N-Methylimidazole, and Tj ETQq0 0 0 rgBT /Overlock 10 Tf.50 697 107 (<i>N</i>))	5.0	67
21	Metal-free imidazolium hydrogen carbonate ionic liquids as bifunctional catalysts for the one-pot synthesis of cyclic carbonates from olefins and CO ₂ . <i>Green Chemistry</i> , 2019, 21, 3834-3838.	9.0	67
22	Efficient conversion of CO ₂ into cyclic carbonates at room temperature catalyzed by Al-salen and imidazolium hydrogen carbonate ionic liquids. <i>Green Chemistry</i> , 2020, 22, 4509-4515.	9.0	67
23	Catalyst-free N-formylation of amines using BH ₃ NH ₃ and CO ₂ under mild conditions. <i>Chemical Communications</i> , 2017, 53, 8046-8049.	4.1	66
24	Hydrogenation of CO ₂ to Formate with H ₂ : Transition Metal Free Catalyst Based on a Lewis Pair. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 722-726.	13.8	66
25	Dicarboxylic acid salts as task-specific ionic liquids for reversible absorption of SO ₂ with a low enthalpy change. <i>RSC Advances</i> , 2013, 3, 16264.	3.6	64
26	Systematic Study of the Tautomerism of Uracil Induced by Proton Transfer. Exploration of Water Stabilization and Mutagenicity. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5935-5944.	2.6	63
27	Dual Lewis Base Functionalization of Ionic Liquids for Highly Efficient and Selective Capture of H ₂ S. <i>ChemPlusChem</i> , 2014, 79, 241-249.	2.8	62
28	Efficient SO ₂ Capture and Fixation to Cyclic Sulfites by Dual Ether-Functionalized Protic Ionic Liquids without Any Additives. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10886-10895.	6.7	60
29	Supported protic-ionic-liquid membranes with facilitated transport mechanism for the selective separation of CO ₂ . <i>Journal of Membrane Science</i> , 2017, 527, 60-67.	8.2	59
30	The ionic liquid-mediated Claus reaction: a highly efficient capture and conversion of hydrogen sulfide. <i>Green Chemistry</i> , 2016, 18, 1859-1863.	9.0	58
31	Low viscosity superbase protic ionic liquids for the highly efficient simultaneous removal of H ₂ S and CO ₂ from CH ₄ . <i>Separation and Purification Technology</i> , 2021, 263, 118417.	7.9	57
32	Supported Ionic Liquid Membranes with Dual-Site Interaction Mechanism for Efficient Separation of CO ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10792-10799.	6.7	54
33	Catalyst-free selective N-formylation and N-methylation of amines using CO ₂ as a sustainable C1 source. <i>Green Chemistry</i> , 2020, 22, 1134-1138.	9.0	51
34	Task-specific deep eutectic solvents for the highly efficient and selective separation of H ₂ S. <i>Separation and Purification Technology</i> , 2021, 276, 119357.	7.9	48
35	CO oxidation on metal-free nitrogen-doped carbon nanotubes and the related structure–reactivity relationships. <i>Journal of Materials Chemistry</i> , 2012, 22, 15198.	6.7	47
36	Mutagenic Mechanism of the A-T to G-C Transition Induced by 5-Bromouracil: An ab Initio Study. <i>Biochemistry</i> , 2004, 43, 6361-6369.	2.5	46

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37	Cyano-Containing Protic Ionic Liquids for Highly Selective Absorption of SO ₂ from CO ₂ : Experimental Study and Theoretical Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 11012-11021.	3.7	45
38	The efficient conversion of H ₂ S into mercaptan alcohols mediated in protic ionic liquids under mild conditions. <i>Green Chemistry</i> , 2021, 23, 7969-7975.	9.0	43
39	Iron chloride supported on pyridine-modified mesoporous silica: an efficient and reusable catalyst for the allylic oxidation of olefins with molecular oxygen. <i>Green Chemistry</i> , 2008, 10, 827.	9.0	41
40	Correlation Analysis of the Substituent Electronic Effects on the Allylic H-Abstraction in Cyclohexene by Phthalimide-oxyl Radicals: a DFT Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4862-4869.	2.6	40
41	Natural deep eutectic solvent-based gels with multi-site interaction mechanism for selective membrane separation of SO ₂ from N ₂ and CO ₂ . <i>Chemical Engineering Journal</i> , 2022, 438, 135626.	12.7	38
42	Highly-selective separation of CO ₂ from N ₂ or CH ₄ in task-specific ionic liquid membranes: Facilitated transport and salting-out effect. <i>Separation and Purification Technology</i> , 2021, 254, 117621.	7.9	36
43	Highly efficient and selective H ₂ S capture by task-specific deep eutectic solvents through chemical dual-site absorption. <i>Separation and Purification Technology</i> , 2022, 283, 120167.	7.9	35
44	Acetylacetonate-Fe catalyst modified by imidazole ionic compound and its application in aerobic oxidation of 1 ² -isophorone. <i>Catalysis Communications</i> , 2009, 10, 1908-1912.	3.3	34
45	Theoretical study on the structure-reactivity relationships of acetylacetonate-Fe catalyst modified by ionic compound in C-H activation reaction. <i>Journal of Catalysis</i> , 2010, 272, 320-332.	6.2	33
46	Proton Transfer of Formamide +nH ₂ O (n= 0~3): Protective and Assistant Effect of the Water Molecule. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10219-10224.	2.5	30
47	Copper-salen catalysts modified by ionic compounds for the oxidation of cyclohexene by oxygen. <i>Journal of Molecular Catalysis A</i> , 2010, 327, 25-31.	4.8	30
48	An environmentally benign catalytic oxidation of cholesteryl acetate with molecular oxygen by using N-hydroxyphthalimide. <i>Green Chemistry</i> , 2009, 11, 2013.	9.0	29
49	Low-viscous diamino protic ionic liquids with fluorine-substituted phenolic anions for improving CO ₂ reversible capture. <i>Journal of Molecular Liquids</i> , 2018, 268, 617-624.	4.9	29
50	Self-enhancement of CO reversible absorption accompanied by phase transition in protic chlorocuprate ionic liquids for effective CO separation from N ₂ . <i>Chemical Communications</i> , 2019, 55, 3390-3393.	4.1	29
51	Impact of D-glucose pentaacetate on the selective separation of CO ₂ and SO ₂ in supported ionic liquid membranes. <i>Green Chemistry</i> , 2012, 14, 1440.	9.0	27
52	Absorption of H ₂ S and CO ₂ in Aqueous Solutions of Tertiary-Amine Functionalized Protic Ionic Liquids. <i>Energy & Fuels</i> , 2017, 31, 14060-14069.	5.1	27
53	Facilitated transport separation of CO ₂ and H ₂ S by supported liquid membrane based on task-specific protic ionic liquids. <i>Green Chemical Engineering</i> , 2022, 3, 259-266.	6.3	27
54	Protic ionic liquid as excellent shuttle of MDEA for fast capture of CO ₂ . <i>AIChE Journal</i> , 2018, 64, 209-219.	3.6	26

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55	Imidazolium hydrogen carbonate ionic liquids: Versatile organocatalysts for chemical conversion of CO ₂ into valuable chemicals. <i>Journal of CO₂ Utilization</i> , 2020, 39, 101155.	6.8	26
56	A mild and efficient oxidation of 2,3,6-trimethylphenol to trimethyl-1,4-benzoquinone in ionic liquids. <i>Catalysis Communications</i> , 2008, 9, 1979-1981.	3.3	23
57	Multisite activation of epoxides by recyclable Cal 2 / N -methyldiethanolamine catalyst for CO ₂ fixation: A facile access to cyclic carbonates under mild conditions. <i>Molecular Catalysis</i> , 2018, 450, 87-94.	2.0	23
58	Unexpectedly efficient absorption of low-concentration SO ₂ with phase-transition mechanism using deep eutectic solvent consisting of tetraethylammonium chloride and imidazole. <i>Separation and Purification Technology</i> , 2022, 286, 120489.	7.9	23
59	Tautomerism of Uracil and 5-Bromouracil in a Microcosmic Environment with Water and Metal Ions. What Roles Do Metal Ions Play?. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9347-9354.	2.6	22
60	Experimental study and thermodynamical modelling of the solubilities of SO ₂ , H ₂ S and CO ₂ in N-dodecylimidazole and 1,1'-[oxybis(2,1-ethanedioxy-2,1-ethanedioyl)]bis(imidazole): An evaluation of their potential application in the separation of acidic gases. <i>Fluid Phase Equilibria</i> , 2014, 378, 21-33.	2.5	22
61	Density functional theory study on nitrogen-doped carbon nanotubes with and without oxygen adsorption: the influence of length and diameter. <i>New Journal of Chemistry</i> , 2011, 35, 2601.	2.8	21
62	Structure-Reactivity Relationships of Metalloporphyrin Modified by Ionic Liquid and Its Analogue. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23913-23921.	3.1	21
63	Room-Temperature Hydration of Alkynes Catalyzed by Different Carbene Gold Complexes and their Precursors. <i>ChemCatChem</i> , 2016, 8, 262-267.	3.7	21
64	Oxidation of olefins using molecular oxygen catalyzed by a part per million level of recyclable copper catalyst under mild conditions. <i>Green Chemistry</i> , 2017, 19, 675-681.	9.0	21
65	Concentrated aqueous solutions of protic ionic liquids as effective CO ₂ absorbents with high absorption capacities. <i>Journal of Molecular Liquids</i> , 2017, 243, 169-177.	4.9	18
66	Selective membrane separation of CO ₂ using novel epichlorohydrin-amine-based crosslinked protic ionic liquids: Crosslinking mechanism and enhanced salting-out effect. <i>Journal of CO₂ Utilization</i> , 2021, 46, 101473.	6.8	18
67	Highly efficient absorption of HCl in deep eutectic solvents and their corresponding ethylene glycol blends. <i>Chemical Engineering Journal</i> , 2022, 434, 134707.	12.7	18
68	Room temperature hydroamination of alkynes with anilines catalyzed by anti-Bredt di(amino)carbene gold(i) complexes. <i>New Journal of Chemistry</i> , 2016, 40, 5993-5996.	2.8	17
69	Straightforward construction of amino-functionalized ILs@SBA-15 catalysts via mechanochemical grafting for one-pot synthesis of cyclic carbonates from aromatic olefins and CO ₂ . <i>Journal of CO₂ Utilization</i> , 2022, 59, 101962.	6.8	17
70	Reversible absorption of NF ₃ with high solubility in Lewis acidic ionic liquids. <i>Chemical Engineering Journal</i> , 2022, 440, 135902.	12.7	17
71	A water-soluble palladium-salen catalyst modified by pyridinium salt showing higher reactivity and recoverability for Heck coupling reaction. <i>Journal of Molecular Catalysis A</i> , 2015, 396, 55-60.	4.8	16
72	Metal-free catalysis for the one-pot synthesis of organic carbamates from amines, CO ₂ , and alcohol at mild conditions. <i>Chemical Engineering Journal</i> , 2021, 425, 131452.	12.7	16

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73	Hydrogenation of CO ₂ to Formate with H ₂ : Transition Metal Free Catalyst Based on a Lewis Pair. <i>Angewandte Chemie</i> , 2019, 131, 732-736.	2.0	15
74	The efficient catalytic microsystem with halogen-free catalyst for the intensification on CO ₂ cycloaddition. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119629.	20.2	15
75	Approaching and Bond Breaking Energies in the C-H Activation and Their Application in Catalyst Design. <i>Journal of Physical Chemistry A</i> , 2011, 115, 904-910.	2.5	14
76	Effective hydrogenation of CO ₂ to formate catalyzed by ionic liquid modified acetate-Cu. <i>Green Chemistry</i> , 2021, 23, 951-956.	9.0	14
77	Fast and Efficient CO ₂ Absorption in Non-aqueous Tertiary Amines Promoted by Ethylene Glycol. <i>Energy & Fuels</i> , 2022, 36, 4830-4836.	5.1	14
78	Two Unexpected Roles of Water: Assisting and Preventing Functions in the Oxidation of Methane and Methanol Catalyzed by Porphyrin-Fe and Porphyrin-SH-Fe. <i>Journal of Physical Chemistry B</i> , 2008, 112, 10684-10688.	2.6	13
79	The Effect of Nano Confinement on the C-H Activation and its Corresponding Structure-Activity Relationship. <i>Scientific Reports</i> , 2014, 4, 7225.	3.3	13
80	Aerobic oxidation of aldehydes to acids in water with cyclic (alkyl)(amino)carbene copper under mild conditions. <i>Chemical Communications</i> , 2022, 58, 2132-2135.	4.1	13
81	The Reactivity of All-Metal Aromatic Complexes: A Theoretical Investigation on the Methane Activation Reaction. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14046-14049.	2.6	12
82	Selective Oxidation of Cyclohexene with H ₂ O ₂ Catalyzed by Resin Supported Peroxo Phosphotungstic Acid Under Mild Conditions. <i>Catalysis Letters</i> , 2021, 151, 147-152.	2.6	12
83	Controlling the Lewis Acidity and Polymerizing Effectively Prevent Frustrated Lewis Pairs from Deactivation in the Hydrogenation of Terminal Alkynes. <i>Organic Letters</i> , 2021, 23, 3685-3690.	4.6	12
84	CO ₂ hydrogenation to formate catalyzed by highly stable and recyclable carbene-iridium under mild condition. <i>Journal of CO₂ Utilization</i> , 2021, 54, 101769.	6.8	12
85	Base-assisted transfer hydrogenation of CO ₂ to formate with ammonia borane in water under mild conditions. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 15716-15723.	7.1	11
86	Tuning the composition of deep eutectic solvents consisting of tetrabutylammonium chloride and n-decanoic acid for adjustable separation of ethylene and ethane. <i>Separation and Purification Technology</i> , 2022, 298, 121680.	7.9	11
87	Reductive amination of ketones/aldehydes with amines using BH ₃ N(C ₂ H ₅) ₃ as a reductant. <i>Chemical Communications</i> , 2021, 57, 8588-8591.	4.1	10
88	Catalyst-free hierarchical reduction of CO ₂ with BH ₃ N(C ₂ H ₅) ₃ for selective N-methylation and N-formylation of amines. <i>Journal of CO₂ Utilization</i> , 2021, 50, 101590.	6.8	10
89	Friedel-Crafts Reaction of N,N-Dimethylaniline with Alkenes Catalyzed by Cyclic Diaminocarbene-Gold(I) Complex. <i>Scientific Reports</i> , 2018, 8, 11449.	3.3	9
90	Supported Ionic Liquid Gel Membranes Enhanced by Ionization Modification for Sodium Metal Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 12100-12108.	6.7	9

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91	CO ₂ capturing and in situ conversion at mild condition: Efficient synthesis of methyl phenyl carbonate. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105862.	6.7	9
92	Experimental and theoretical study on the cyclic(alkyl)(amino)carbene-copper catalyzed Friedel-Crafts reaction of <i>N,N</i> -dialkylanilines with styrenes. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 4272-4275.	2.8	9
93	Exploring a new kind of aromatic hydrogen bond: hydrogen bonding to all-metal aromatic species. <i>New Journal of Chemistry</i> , 2005, 29, 1295.	2.8	8
94	All-Metal Aromatic Complexes Show High Reactivity in the Oxidation Reaction of Methane and Some Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2007, 111, 8352-8356.	2.5	8
95	Thermal Dehydrogenation and Hydrolysis of BH ₃ NH ₃ Catalyzed by Cyclic (Alkyl)(amino)carbene Iridium Complexes under Mild Conditions. <i>Organometallics</i> , 2021, 40, 2643-2650.	2.3	8
96	Cyclic (alkyl)(amino)carbene-copper supported on SBA-15 as an efficient and recyclable catalyst for CO ₂ hydrogenation to formate. <i>Journal of CO₂ Utilization</i> , 2022, 58, 101910.	6.8	8
97	Efficient conversion of H ₂ S into mercaptan alcohol by tertiary-amine functionalized ionic liquids. <i>Chinese Journal of Chemical Engineering</i> , 2022, 50, 197-204.	3.5	7
98	B(C ₆ F ₅) ₃ -Catalyzed Tandem Friedel-Crafts and C-H/C=O Coupling Reactions of Dialkylanilines. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3082-3086.	3.3	6
99	Efficient methanol carbonylation to methyl acetate catalyzed by a cyclic(alkyl)(amino)carbene iridium complex. <i>Catalysis Science and Technology</i> , 2020, 10, 6045-6049.	4.1	6
100	Covalent organic frameworks anchored with frustrated Lewis pairs for hydrogenation of alkynes with H ₂ . <i>Journal of Materials Chemistry A</i> , 2022, 10, 7333-7340.	10.3	6
101	Recyclable polymerized Lewis acid poly-BPh(C ₆ F ₅) ₂ catalyzed selective N-formylation and N-methylation of amines with carbon dioxide and <i>p</i> -phenylsilanes. <i>Journal of CO₂ Utilization</i> , 2022, 61, 102052.	6.8	6
102	Reaction Mechanism of Uracil Bromination by HBrO ₂ : A New Way To Generate the Enol-Keto Form of 5-Bromouracil. <i>Journal of Physical Chemistry A</i> , 2006, 110, 11188-11193.	2.5	5
103	Structure and asymmetric epoxidation reactivity of chiral Mn(<i>salen</i>) salen catalysts modified by different axial anions. <i>RSC Advances</i> , 2015, 5, 80772-80778.	3.6	5
104	The influence of axial ligands on the catalytic activity and enantioselectivity of salen-Mn complexes in the asymmetric epoxidation. <i>Journal of Physical Organic Chemistry</i> , 2019, 32, e3972.	1.9	5
105	Amino Acid Modified Macroreticular Anion Exchange Resins for CO ₂ Adsorption. <i>Journal of Chemical Engineering of Japan</i> , 2015, 48, 268-275.	0.6	5
106	Efficient chemical fixation of CO ₂ to form switchable ionic liquid to synthesize benzimidazolones under mild conditions. <i>Chemical Engineering Journal</i> , 2022, 442, 135122.	12.7	5
107	Selective and simultaneous membrane separation of CO and H ₂ from N ₂ by protic chlorocuprate ionic liquids. <i>Renewable Energy</i> , 2022, .	8.9	5
108	Improvement the Activity and Selectivity of Fenton System in the Oxidation of Alcohols. <i>Journal of Catalysts</i> , 2014, 2014, 1-6.	0.5	4

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109	Utilization of a Methoxy Group in Lignin to Prepare Amides by the Carbonylation of Amines. ACS Sustainable Chemistry and Engineering, 2021, 9, 11667-11673.	6.7	4
110	Ionic Liquids Endowed with Novel Hybrid Anions for Supercapacitors. ACS Omega, 2022, 7, 26368-26374.	3.5	4
111	An efficient method to prepare aryl acetates by the carbonylation of aryl methyl ethers or phenols. New Journal of Chemistry, 2021, 45, 2683-2687.	2.8	3
112	Binary Brønsted Acidic Ionic Liquids (BBAILs) as the Reactive Extraction Intensified Catalysts for the Esterification of Acetic Acid and n -Butanol. Journal of Chemical Engineering of Japan, 2017, 50, 632-640.	0.6	2
113	The effect of inorganic salt on multiphase flow characteristics in a microbubble column: A focus on the ionic strength. Asia-Pacific Journal of Chemical Engineering, 2022, 17, e2720.	1.5	2
114	Hydrogenation of CO ₂ to Formate with H ₂ : Transition Metal Free Catalyst Based on a Lewis Pair. Angewandte Chemie, 2018, 131, 649.	2.0	0