

Jin-Quan Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/993938/publications.pdf>

Version: 2024-02-01

62
papers

5,956
citations

50170

46
h-index

110170

64
g-index

84
all docs

84
docs citations

84
times ranked

5072
citing authors

#	ARTICLE	IF	CITATIONS
1	Fixation of CO ₂ into cyclic carbonates catalyzed by ionic liquids: a multi-scale approach. <i>Green Chemistry</i> , 2015, 17, 108-122.	4.6	387
2	Chitosan functionalized ionic liquid as a recyclable biopolymer-supported catalyst for cycloaddition of CO ₂ . <i>Green Chemistry</i> , 2012, 14, 654.	4.6	314
3	Urea-derived graphitic carbon nitride as an efficient heterogeneous catalyst for CO ₂ conversion into cyclic carbonates. <i>Catalysis Science and Technology</i> , 2014, 4, 1556.	2.1	222
4	Synthesis of cyclic carbonates from epoxides and carbon dioxide over silica-supported quaternary ammonium salts under supercritical conditions. <i>Journal of Molecular Catalysis A</i> , 2006, 249, 143-148.	4.8	221
5	Efficient Acid-Base Bifunctional Catalysts for the Fixation of CO ₂ with Epoxides under Metal- and Solvent-free Conditions. <i>ChemSusChem</i> , 2011, 4, 502-507.	3.6	221
6	Solventless synthesis of cyclic carbonates from carbon dioxide and epoxides catalyzed by silica-supported ionic liquids under supercritical conditions. <i>Catalysis Communications</i> , 2007, 8, 167-172.	1.6	196
7	Insights into quaternary ammonium salts-catalyzed fixation carbon dioxide with epoxides. <i>Catalysis Science and Technology</i> , 2012, 2, 1480.	2.1	192
8	Bifunctional Metal-Salen Complexes as Efficient Catalysts for the Fixation of CO ₂ with Epoxides under Solvent-free Conditions. <i>ChemSusChem</i> , 2008, 1, 236-241.	3.6	180
9	Superbase/cellulose: an environmentally benign catalyst for chemical fixation of carbon dioxide into cyclic carbonates. <i>Green Chemistry</i> , 2014, 16, 3071.	4.6	180
10	SBA-15 supported triazolium-based ionic liquids as highly efficient and recyclable catalysts for fixation of CO ₂ with epoxides. <i>Catalysis Today</i> , 2013, 200, 117-124.	2.2	168
11	Boronic Acids as Hydrogen Bond Donor Catalysts for Efficient Conversion of CO ₂ into Organic Carbonate in Water. <i>ACS Catalysis</i> , 2016, 6, 4871-4876.	5.5	163
12	Imidazolium salt-modified porous hypercrosslinked polymers for synergistic CO ₂ capture and conversion. <i>Chemical Communications</i> , 2015, 51, 12076-12079.	2.2	157
13	Ionic liquid clusters: structure, formation mechanism, and effect on the behavior of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5893-5906.	1.3	155
14	A Novel Dual Amino-Functionalized Cation-Tethered Ionic Liquid for CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 5835-5841.	1.8	145
15	Experimental and theoretical studies on hydrogen bond-promoted fixation of carbon dioxide and epoxides in cyclic carbonates. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11021.	1.3	129
16	A poly(ethylene glycol)-supported quaternary ammonium salt for highly efficient and environmentally friendly chemical fixation of CO ₂ with epoxides under supercritical conditions. <i>Tetrahedron Letters</i> , 2006, 47, 1271-1275.	0.7	128
17	Phosphonium salt incorporated hypercrosslinked porous polymers for CO ₂ capture and conversion. <i>Chemical Communications</i> , 2015, 51, 15708-15711.	2.2	128
18	Efficient synthesis of dimethyl carbonate from methanol, propylene oxide and CO ₂ catalyzed by recyclable inorganic base/phosphonium halide-functionalized polyethylene glycol. <i>Green Chemistry</i> , 2007, 9, 566-571.	4.6	127

#	ARTICLE	IF	CITATIONS
19	Redox Active Metal-Free and Covalent Organic Frameworks for Energy Storage: Balancing Porosity and Electrical Conductivity. <i>Chemistry - A European Journal</i> , 2017, 23, 16419-16431.	1.7	121
20	Catalytic fixation of CO ₂ to cyclic carbonates by phosphonium chlorides immobilized on fluorinated polymer. <i>Green Chemistry</i> , 2013, 15, 110-115.	4.6	114
21	Efficient fixation of CO ₂ into organic carbonates catalyzed by 2-hydroxymethyl-functionalized ionic liquids. <i>RSC Advances</i> , 2013, 4, 2360-2367.	1.7	107
22	Hexaazatrinaphthylene-Based Porous Organic Polymers as Organic Cathode Materials for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1772-1779.	3.2	106
23	TEMPO and Carboxylic Acid Functionalized Imidazolium Salts/Sodium Nitrite: An Efficient, Reusable, Transition Metal-Free Catalytic System for Aerobic Oxidation of Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 2209-2216.	2.1	103
24	Synthesis of bimagnetic ionic liquid and application for selective aerobic oxidation of aromatic alcohols under mild conditions. <i>Chemical Communications</i> , 2011, 47, 2697.	2.2	100
25	Carbon dioxide chemistry: Examples and challenges in chemical utilization of carbon dioxide. <i>Pure and Applied Chemistry</i> , 2009, 81, 2069-2080.	0.9	92
26	Functionalized dicyandiamide-formaldehyde polymers as efficient heterogeneous catalysts for conversion of CO ₂ into organic carbonates. <i>Green Chemistry</i> , 2014, 16, 2771-2778.	4.6	90
27	Supercritical carbon dioxide and poly(ethylene glycol): an environmentally benign biphasic solvent system for aerobic oxidation of styrene. <i>Green Chemistry</i> , 2007, 9, 882.	4.6	87
28	Efficient fixation of CO ₂ into cyclic carbonates catalyzed by hydroxyl-functionalized poly(ionic liquid) membranes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2752-2757.	1.7	85
29	Effects of cations and anions of ionic liquids on the production of 5-hydroxymethylfurfural from fructose. <i>Chemical Communications</i> , 2012, 48, 4103.	2.2	84
30	Strategies toward improving the performance of organic electrodes in rechargeable lithium (sodium) batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14902-14914.	5.2	84
31	Zirconyl chloride: an efficient recyclable catalyst for synthesis of 5-aryl-2-oxazolidinones from aziridines and CO ₂ under solvent-free conditions. <i>Tetrahedron</i> , 2009, 65, 6204-6210.	1.0	81
32	Hexaazatriphenylene derivatives/GO composites as organic cathodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2752-2757.	5.2	79
33	Synthesis of dimethyl carbonate catalyzed by carboxylic functionalized imidazolium salt via transesterification reaction. <i>Catalysis Science and Technology</i> , 2012, 2, 600-605.	2.1	78
34	Carboxylation of terminal alkynes at ambient CO ₂ pressure in ethylene carbonate. <i>Green Chemistry</i> , 2013, 15, 2401.	4.6	78
35	Sn-catalyzed synthesis of propylene carbonate from propylene glycol and CO ₂ under supercritical conditions. <i>Journal of Molecular Catalysis A</i> , 2005, 241, 233-237.	4.8	77
36	Experimental and theoretical studies on imidazolium ionic liquid-promoted conversion of fructose to 5-hydroxymethylfurfural. <i>Green Chemistry</i> , 2012, 14, 2752.	4.6	77

#	ARTICLE	IF	CITATIONS
37	Efficient fixation of CO ₂ into cyclic carbonates catalysed by silicon-based main chain poly-imidazolium salts. <i>Green Chemistry</i> , 2014, 16, 4515-4519.	4.6	75
38	A CO ₂ /H ₂ O ₂ -tunable reaction: direct conversion of styrene into styrene carbonate catalyzed by sodium phosphotungstate/n-Bu ₄ NBr. <i>Green Chemistry</i> , 2008, 10, 1218.	4.6	73
39	Ionic Liquids: The Synergistic Catalytic Effect in the Synthesis of Cyclic Carbonates. <i>Catalysts</i> , 2013, 3, 878-901.	1.6	63
40	Biocompatible and recyclable amino acid binary catalyst for efficient chemical fixation of CO ₂ . <i>Catalysis Communications</i> , 2014, 44, 6-9.	1.6	62
41	Iron(iii)-based ionic liquid-catalyzed regioselective benzylation of arenes and heteroarenes. <i>Green Chemistry</i> , 2011, 13, 1182.	4.6	53
42	One-pot synthesis of dimethyl carbonate catalyzed by n-Bu ₄ NBr/n-Bu ₃ N from methanol, epoxides, and supercritical CO ₂ . <i>Applied Catalysis A: General</i> , 2006, 301, 215-221.	2.2	52
43	Polystyrene-bound diethanolamine based ionic liquids for chemical fixation of CO ₂ . <i>Tetrahedron Letters</i> , 2012, 53, 2684-2688.	0.7	52
44	ZnBr ₂ -Based Choline Chloride Ionic Liquid for Efficient Fixation of CO ₂ to Cyclic Carbonate. <i>Synthetic Communications</i> , 2012, 42, 2564-2573.	1.1	50
45	Facile synthesis of N-rich porous azo-linked frameworks for selective CO ₂ capture and conversion. <i>Green Chemistry</i> , 2016, 18, 5248-5253.	4.6	50
46	Synthesis of dimethyl carbonate from CO ₂ and ethylene oxide catalyzed by K ₂ CO ₃ -based binary salts in the presence of H ₂ O. <i>Green Chemistry</i> , 2011, 13, 3213.	4.6	48
47	A nanoporous sulfur-bridged hexaazatrinaphthylene framework as an organic cathode for lithium ion batteries with well-balanced electrochemical performance. <i>Chemical Communications</i> , 2018, 54, 7681-7684.	2.2	48
48	Triethanolamine/KI: A Multifunctional Catalyst for CO ₂ Activation and Conversion with Epoxides into Cyclic Carbonates. <i>Synthetic Communications</i> , 2013, 43, 2985-2997.	1.1	36
49	Synthesis of Urea Derivatives from CO ₂ and Amines Catalyzed by Polyethylene Glycol Supported Potassium Hydroxide without Dehydrating Agents. <i>Synlett</i> , 2010, 2010, 1276-1280.	1.0	25
50	Polyethylene Glycol-Enhanced Chemoselective Synthesis of Organic Carbamates from Amines, CO ₂ , and Alkyl Halides. <i>Synthetic Communications</i> , 2011, 41, 3298-3307.	1.1	25
51	Polyethylene glycol radical-initiated oxidation of benzylic alcohols in compressed carbon dioxide. <i>Green Chemistry</i> , 2009, 11, 1013.	4.6	24
52	Structures and hydrogen bonds of biodegradable naphthenate ionic liquids. <i>Fluid Phase Equilibria</i> , 2013, 360, 169-179.	1.4	24
53	The Free Radical Chemistry of Polyethylene Glycol: Organic Reactions in Compressed Carbon Dioxide. <i>ChemSusChem</i> , 2009, 2, 755-760.	3.6	21
54	Nitrogen-Linked Hexaazatrinaphthylene Polymer as Cathode Material in Lithium-Ion Battery. <i>Chemistry - A European Journal</i> , 2020, 26, 2581-2585.	1.7	18

#	ARTICLE	IF	CITATIONS
55	Facile synthesis of oxazolidinones catalyzed by n-Bu ₄ NBr ₃ /n-Bu ₄ NBr directly from olefins, chloramine-T and carbon dioxide. <i>Catalysis Communications</i> , 2010, 11, 992-995.	1.6	17
56	Environmentally Benign Chemical Conversion of CO ₂ into Organic Carbonates Catalyzed by Phosphonium Salts. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2008, 183, 494-498.	0.8	16
57	Polyethylene glycol radical-initiated benzylic C-H bond oxygenation in compressed carbon dioxide. <i>New Journal of Chemistry</i> , 2009, 33, 1637.	1.4	15
58	Hydrogen Bond Donor-promoted Fixation of CO ₂ with Epoxides into Cyclic Carbonates: Moving Forward. <i>Current Green Chemistry</i> , 2015, 2, 3-13.	0.7	14
59	Guanidinium Salt Functionalized PEG: An Effective and Recyclable Homo-geneous Catalyst for the Synthesis of Cyclic Carbonates from CO ₂ and Epoxides under Solvent-Free Conditions. <i>Synlett</i> , 2007, 2007, 3058-3062.	1.0	13
60	Methodologies for chemical utilization of CO ₂ to valuable compounds through molecular activation by efficient catalysts. <i>Frontiers of Chemical Engineering in China</i> , 2009, 3, 224-228.	0.6	9
61	An Efficient and Stable Ionic Liquid System for Synthesis of Ethylene Glycol via Hydrolysis of Ethylene Carbonate. <i>Chinese Journal of Chemical Engineering</i> , 2010, 18, 962-966.	1.7	9
62	Biomimetic Oxidation of Alcohols Catalyzed by TEMPO-Functionalized Polyethylene Glycol and Copper(I) Chloride in Compressed Carbon Dioxide. <i>Synlett</i> , 2009, 2009, 3291-3294.	1.0	6