

# Duan-Jian Tao

## List of Publications by Citations

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70  
papers

2,071  
citations

24  
h-index

44  
g-index

73  
ext. papers

2,519  
ext. citations

6.1  
avg, IF

5.3  
L-index

#	Paper	IF	Citations
70	Multi-Molar Absorption of CO <sub>2</sub> by the Activation of Carboxylate Groups in Amino Acid Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 7166-70	16.4	212
69	Ultrafine Ru nanoparticles embedded in SiO <sub>2</sub> nanospheres: Highly efficient catalysts for hydrolytic dehydrogenation of ammonia borane. <i>Journal of Power Sources</i> , <b>2014</b> , 257, 293-299	8.9	167
68	Synthesis and Thermophysical Properties of Biocompatible Cholinium-Based Amino Acid Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 1542-1548	2.8	152
67	Chemical solvent in chemical solvent: A class of hybrid materials for effective capture of CO <sub>2</sub> . <i>AIChE Journal</i> , <b>2018</b> , 64, 632-639	3.6	130
66	Synergistic catalysis of MCM-41 immobilized Cu <sub>2</sub> Ni nanoparticles in hydrolytic dehydrogenation of ammonia borane. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 13389-13395	6.7	89
65	Taming electronic properties of boron nitride nanosheets as metal-free catalysts for aerobic oxidative desulfurization of fuels. <i>Green Chemistry</i> , <b>2018</b> , 20, 4453-4460	10	79
64	Highly efficient and selective absorption of H <sub>2</sub> S in phenolic ionic liquids: A cooperative result of anionic strong basicity and cationic hydrogen-bond donation. <i>Chemical Engineering Science</i> , <b>2017</b> , 173, 253-263	4.4	76
63	Phenol-Based Ternary Deep Eutectic Solvents for Highly Efficient and Reversible Absorption of NH <sub>3</sub> . <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 3258-3266	8.3	67
62	Highly Efficient Carbon Monoxide Capture by Carbanion-Functionalized Ionic Liquids through C-Site Interactions. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 6843-6847	16.4	63
61	Facilely synthesized meso-macroporous polymer as support of poly(ethyleneimine) for highly efficient and selective capture of CO <sub>2</sub> . <i>Chemical Engineering Journal</i> , <b>2017</b> , 314, 466-476	14.7	63
60	Kinetics for the Esterification Reaction of n-Butanol with Acetic Acid Catalyzed by Noncorrosive Brønsted Acidic Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 1989-1996	3.9	58
59	Noncorrosive ionic liquids composed of [HSO <sub>4</sub> ] as esterification catalysts. <i>Chemical Engineering Journal</i> , <b>2011</b> , 171, 1333-1339	14.7	56
58	Efficient hydrolysis of hemicellulose to furfural by novel superacid SO <sub>4</sub> H-functionalized ionic liquids. <i>Green Energy and Environment</i> , <b>2019</b> , 4, 49-55	5.7	52
57	Rational design and synthesis of a porous, task-specific polycarbazole for efficient CO <sub>2</sub> capture. <i>Chemical Communications</i> , <b>2016</b> , 52, 4454-7	5.8	47
56	Highly efficient cycloaddition of diluted and waste CO <sub>2</sub> into cyclic carbonates catalyzed by porous ionic copolymers. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2020</b> , 36, 169-176	7.6	42
55	SO <sub>3</sub> H-functionalized Brønsted acidic ionic liquids as efficient catalysts for the synthesis of isoamyl salicylate. <i>RSC Advances</i> , <b>2014</b> , 4, 1-7	3.7	40
54	Molecular Dynamics Simulations of Hydrogen Bond Dynamics and Far-Infrared Spectra of Hydration Water Molecules around the Mixed Monolayer-Protected Au Nanoparticle. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 1768-1781	3.8	40

53	Rapid capture and efficient removal of low-concentration SO <sub>2</sub> in simulated flue gas by hypercrosslinked hollow nanotube ionic polymers. <i>Chemical Engineering Journal</i> , <b>2020</b> , 394, 124859	14.7	38
52	Ionic liquid formulated hybrid solvents for CO <sub>2</sub> capture. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2017</b> , 5, 67-73	7.9	35
51	Multi-Molar Absorption of CO <sub>2</sub> by the Activation of Carboxylate Groups in Amino Acid Ionic Liquids. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 7282-7286	3.6	35
50	MOR zeolite supported Brønsted acidic ionic liquid: an efficient and recyclable heterogeneous catalyst for ketalization. <i>RSC Advances</i> , <b>2014</b> , 4, 12160-12167	3.7	29
49	Highly Efficient CO <sub>2</sub> Capture by Polyethylenimine Plus 1-Ethyl-3-Methylimidazolium Acetate Mixed Absorbents. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 9369-9377	8.3	25
48	A green and efficient hydration of alkynes catalyzed by hierarchically porous poly(ionic liquid)s solid strong acids. <i>Applied Catalysis A: General</i> , <b>2018</b> , 564, 56-63	5.1	24
47	Hierarchical porous boron nitride with boron vacancies for improved adsorption performance to antibiotics. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 584, 154-163	9.3	24
46	Promoted absorption of CO at high temperature by cuprous-based ternary deep eutectic solvents. <i>AIChE Journal</i> , <b>2021</b> , 67, e17106	3.6	24
45	Kinetics Study of the Ketalization Reaction of Cyclohexanone with Glycol Using Brønsted Acidic Ionic Liquids as Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 16263-16269	3.9	23
44	Highly Efficient Carbon Monoxide Capture by Carbanion-Functionalized Ionic Liquids through C-Site Interactions. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 6947-6951	3.6	22
43	Facile one-pot synthesis of glycidol from glycerol and dimethyl carbonate catalyzed by tetraethylammonium amino acid ionic liquids. <i>Catalysis Communications</i> , <b>2015</b> , 66, 25-29	3.2	22
42	Highly efficient and selective synthesis of dibutyl carbonate via the synergistic dual activation catalysis of tetraethylammonium proline ionic liquids. <i>Applied Catalysis A: General</i> , <b>2015</b> , 492, 177-183	5.1	21
41	Synthesis of Tetrabutylphosphonium Carboxylate Ionic Liquids and Its Catalytic Activities for the Alcoholysis Reaction of Propylene Oxide. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 17111-17116	3.9	20
40	Tuning the acidity of sulfonic functionalized ionic liquids for highly efficient and selective synthesis of terpene esters. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2016</b> , 41, 122-129	6.3	20
39	Synthesis of Guanidinium-Based Poly(ionic liquids) with Nonporosity for Highly Efficient SO <sub>2</sub> Capture from Flue Gas. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 5984-5991	3.9	19
38	Controllable Brønsted acid-promoted aerobic oxidation via solvation-induced proton transfer: Metal-free construction of quinazolinones and dihydroquinazolinones. <i>Molecular Catalysis</i> , <b>2017</b> , 434, 134-139	3.3	16
37	Tuning Ion-Pair Interaction in Cuprous-Based Protic Ionic Liquids for Significantly Improved CO Capture. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 11894-11900	8.3	16
36	Highly Efficient Indirect Hydration of Olefins to Alcohols Using Superacidic Polyoxometalate-Based Ionic Hybrids Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 6654-6663	3.9	15

35	Simultaneous activation and N-doping of hydrothermal carbons by NaNH <sub>2</sub> : An effective approach to CO <sub>2</sub> adsorbents. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2019</b> , 33, 405-412	7.6	15
34	Low-Viscosity Tetramethylguanidinium-Based Ionic Liquids with Different Phenolate Anions: Synthesis, Characterization, and Physical Properties. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2014</b> , 59, 4031-4038	2.8	15
33	Facile synthesis of fructose from ethyl acetoacetate and ethylene glycol catalyzed by SO <sub>3</sub> H-functionalized Brønsted acidic ionic liquids. <i>RSC Advances</i> , <b>2014</b> , 4, 22520	3.7	15
32	Solvent-free self-assembly synthesis of N-doped ordered mesoporous carbons as effective and bifunctional materials for CO <sub>2</sub> capture and oxygen reduction reaction. <i>Chemical Engineering Journal</i> , <b>2021</b> , 427, 130878	14.7	14
31	High-entropy oxide stabilized molybdenum oxide via high temperature for deep oxidative desulfurization. <i>Applied Materials Today</i> , <b>2020</b> , 20, 100680	6.6	13
30	Tetrabutylphosphonium amino acid ionic liquids as efficient catalysts for solvent-free Knoevenagel condensation reactions. <i>Korean Journal of Chemical Engineering</i> , <b>2014</b> , 31, 1377-1383	2.8	13
29	Thermally regulated molybdate-based ionic liquids toward molecular oxygen activation for one-pot oxidative cascade catalysis. <i>Green Chemistry</i> , <b>2020</b> , 22, 103-109	10	11
28	Deep eutectic solvent-induced high-entropy structures in boron nitride for boosted initiation of aerobic oxidative desulfurization of diesel. <i>Applied Surface Science</i> , <b>2020</b> , 529, 146980	6.7	10
27	Co-N-C catalysts synthesized by pyrolysis of Co-based deep eutectic solvents for aerobic oxidation of alcohols. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 15871-15878	3.6	9
26	Structural and electronic properties of phosphorus-doped titanium clusters: A DFT study. <i>Computational and Theoretical Chemistry</i> , <b>2011</b> , 977, 50-54	2	8
25	Oxidative NHC catalysis for base-free synthesis of benzoxazinones and benzoazoles by thermal activated NHCs precursor ionic liquid catalyst using air as oxidant. <i>Molecular Catalysis</i> , <b>2020</b> , 492, 111013-111013	3.3	8
24	Ultralow Loading Cobalt-Based Nanocatalyst for Benign and Efficient Aerobic Oxidation of Allylic Alcohols and Biobased Olefins. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 1901-1908	8.3	7
23	Synthesis of Porous Sulfonamide Polymers by Capturing Atmospheric Sulfur Dioxide. <i>ChemSusChem</i> , <b>2018</b> , 11, 1751-1755	8.3	6
22	Highly efficient synthesis of 1-methoxy-2-propanol using ionic liquid catalysts in a micro-tubular circulating reactor. <i>Green Energy and Environment</i> , <b>2020</b> , 5, 147-153	5.7	6
21	Phosphomolybdic acid encapsulated in ZIF-8-based porous ionic liquids for reactive extraction desulfurization of fuels. <i>Inorganic Chemistry Frontiers</i> ,	6.8	5
20	Physicochemical Properties and CO <sub>2</sub> Solubility of Tetrabutylphosphonium Carboxylate Ionic Liquids. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , <b>2016</b> , 32, 605-610	3.8	5
19	Mesoporous N-doped carbon derived from tea waste for high-performance CO <sub>2</sub> capture and conversion. <i>Materials Today Communications</i> , <b>2020</b> , 22, 100849	2.5	5
18	Synthesis of Ditetrahydrofurfuryl Carbonate as a Fuel Additive Catalyzed by Aminopolycarboxylate Ionic Liquids. <i>Catalysis Letters</i> , <b>2017</b> , 147, 1347-1354	2.8	4

17	Remarkably efficient hydrolysis of cinnamaldehyde to natural benzaldehyde in amino acid ionic liquids. <i>Korean Journal of Chemical Engineering</i> , <b>2016</b> , 33, 3374-3380	2.8	4
16	CTAB-controlled synthesis of phenolic resin-based nanofiber aerogels for highly efficient and reversible SO <sub>2</sub> capture. <i>Chemical Engineering Journal</i> , <b>2021</b> , 431, 133715	14.7	4
15	Metal-organic framework encapsulated high-loaded phosphomolybdic acid: A highly stable catalyst for oxidative desulfurization of 4,6-dimethyldibenzothiophene. <i>Fuel</i> , <b>2022</b> , 309, 122143	7.1	4
14	Study on physicochemical properties and basicity of carbanion-functionalized ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 312, 113405	6	4
13	Sulfate ionic liquids impregnated 2D boron nitride nanosheets for trace SO <sub>2</sub> capture with high capacity and selectivity. <i>Separation and Purification Technology</i> , <b>2021</b> , 270, 118824	8.3	4
12	Facile One-Pot Synthesis of Flavanones Using Tetramethylguanidinium-Based Ionic Liquids as Catalysts. <i>Catalysis Letters</i> , <b>2015</b> , 145, 1830-1836	2.8	3
11	Highly Efficient Conversion of Renewable Levulinic Acid to n-Butyl Levulinate Catalyzed by Sulfonated Magnetic Titanium Dioxide Nanotubes. <i>Catalysis Letters</i> , <b>2020</b> , 150, 2709-2715	2.8	3
10	Enhanced adsorption performance for antibiotics by alcohol-solvent mediated boron nitride nanosheets. <i>Rare Metals</i> , <b>2022</b> , 41, 342	5.5	3
9	Investigation of Amine-Based Ternary Deep Eutectic Solvents for Efficient, Rapid, and Reversible SO <sub>2</sub> Absorption. <i>Energy &amp; Fuels</i> ,	4.1	3
8	Kinetics Study of the Esterification of Acetic Acid with Methanol using Low-Corrosive Brønsted Acidic Ionic Liquids as Catalysts. <i>International Journal of Chemical Reactor Engineering</i> , <b>2012</b> , 10,	1.2	2
7	Cuprous-based composite ionic liquids for the selective absorption of CO : Experimental study and thermodynamic analysis. <i>AIChE Journal</i> ,	3.6	2
6	Melting Mechanism and Structure Evolution of Au Nanofilms Explored by Molecular Dynamics Simulations. <i>Chinese Journal of Chemical Physics</i> , <b>2015</b> , 28, 623-629	0.9	1
5	Solidothermal synthesis of nitrogen-decorated, ordered mesoporous carbons with large surface areas for efficient selective capture and separation of SO <sub>2</sub> . <i>Chemical Engineering Journal</i> , <b>2022</b> , 431, 134142	14.7	1
4	Vitamin B9 derived nitrogen-doped graphene for metal-free aerobic oxidation of biomass-derived chemicals. <i>Green Energy and Environment</i> , <b>2021</b> ,	5.7	1
3	Rücktitelbild: Highly Efficient Carbon Monoxide Capture by Carbanion-Functionalized Ionic Liquids through C-Site Interactions (Angew. Chem. 24/2017). <i>Angewandte Chemie</i> , <b>2017</b> , 129, 7108-7108	3.6	
2	Ionic Liquids in CO Capture and Separation <b>2022</b> , 1-7		
1	Hydrodeoxygenation of sulfoxides into sulfides under mild conditions over a heterogeneous cobalt catalyst. <i>Reaction Chemistry and Engineering</i> , <b>2021</b> , 6, 1475-1482	4.9	