

Duan-Jian Tao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Enhanced adsorption performance for antibiotics by alcohol-solvent mediated boron nitride nanosheets. <i>Rare Metals</i> , 2022 , 41, 342	5.5	3
69	Ionic Liquids in CO Capture and Separation 2022 , 1-7		
68	Solidothermal synthesis of nitrogen-decorated, ordered mesoporous carbons with large surface areas for efficient selective capture and separation of SO ₂ . <i>Chemical Engineering Journal</i> , 2022 , 431, 134142	14.7	1
67	Metal-organic framework encapsulated high-loaded phosphomolybdic acid: A highly stable catalyst for oxidative desulfurization of 4,6-dimethyldibenzothiophene. <i>Fuel</i> , 2022 , 309, 122143	7.1	4
66	CTAB-controlled synthesis of phenolic resin-based nanofiber aerogels for highly efficient and reversible SO ₂ capture. <i>Chemical Engineering Journal</i> , 2021 , 431, 133715	14.7	4
65	Synthesis of Guanidinium-Based Poly(ionic liquids) with Nonporosity for Highly Efficient SO ₂ Capture from Flue Gas. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 5984-5991	3.9	19
64	Solvent-free self-assembly synthesis of N-doped ordered mesoporous carbons as effective and bifunctional materials for CO ₂ capture and oxygen reduction reaction. <i>Chemical Engineering Journal</i> , 2021 , 427, 130878	14.7	14
63	Hierarchical porous boron nitride with boron vacancies for improved adsorption performance to antibiotics. <i>Journal of Colloid and Interface Science</i> , 2021 , 584, 154-163	9.3	24
62	Promoted absorption of CO at high temperature by cuprous-based ternary deep eutectic solvents. <i>AIChE Journal</i> , 2021 , 67, e17106	3.6	24
61	Hydrodeoxygenation of sulfoxides into sulfides under mild conditions over a heterogeneous cobalt catalyst. <i>Reaction Chemistry and Engineering</i> , 2021 , 6, 1475-1482	4.9	
60	Vitamin B9 derived nitrogen-doped graphene for metal-free aerobic oxidation of biomass-derived chemicals. <i>Green Energy and Environment</i> , 2021 ,	5.7	1
59	Sulfate ionic liquids impregnated 2D boron nitride nanosheets for trace SO ₂ capture with high capacity and selectivity. <i>Separation and Purification Technology</i> , 2021 , 270, 118824	8.3	4
58	High-entropy oxide stabilized molybdenum oxide via high temperature for deep oxidative desulfurization. <i>Applied Materials Today</i> , 2020 , 20, 100680	6.6	13
57	Highly Efficient Conversion of Renewable Levulinic Acid to n-Butyl Levulinate Catalyzed by Sulfonated Magnetic Titanium Dioxide Nanotubes. <i>Catalysis Letters</i> , 2020 , 150, 2709-2715	2.8	3
56	Rapid capture and efficient removal of low-concentration SO ₂ in simulated flue gas by hypercrosslinked hollow nanotube ionic polymers. <i>Chemical Engineering Journal</i> , 2020 , 394, 124859	14.7	38
55	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> , 2020 , 492, 111013 ³⁻³		8
54	Study on physicochemical properties and basicity of carbanion-functionalized ionic liquids. <i>Journal of Molecular Liquids</i> , 2020 , 312, 113405	6	4

53	Thermally regulated molybdate-based ionic liquids toward molecular oxygen activation for one-pot oxidative cascade catalysis. <i>Green Chemistry</i> , 2020 , 22, 103-109	10	11
52	Mesoporous N-doped carbon derived from tea waste for high-performance CO ₂ capture and conversion. <i>Materials Today Communications</i> , 2020 , 22, 100849	2.5	5
51	Highly efficient cycloaddition of diluted and waste CO ₂ into cyclic carbonates catalyzed by porous ionic copolymers. <i>Journal of CO₂ Utilization</i> , 2020 , 36, 169-176	7.6	42
50	Deep eutectic solvent-induced high-entropy structures in boron nitride for boosted initiation of aerobic oxidative desulfurization of diesel. <i>Applied Surface Science</i> , 2020 , 529, 146980	6.7	10
49	Highly efficient synthesis of 1-methoxy-2-propanol using ionic liquid catalysts in a micro-tubular circulating reactor. <i>Green Energy and Environment</i> , 2020 , 5, 147-153	5.7	6
48	Tuning Ion-Pair Interaction in Cuprous-Based Protic Ionic Liquids for Significantly Improved CO Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11894-11900	8.3	16
47	Highly Efficient CO ₂ Capture by Polyethylenimine Plus 1-Ethyl-3-Methylimidazolium Acetate Mixed Absorbents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9369-9377	8.3	25
46	Efficient hydrolysis of hemicellulose to furfural by novel superacid SO ₄ H-functionalized ionic liquids. <i>Green Energy and Environment</i> , 2019 , 4, 49-55	5.7	52
45	Simultaneous activation and N-doping of hydrothermal carbons by NaNH ₂ : An effective approach to CO ₂ adsorbents. <i>Journal of CO₂ Utilization</i> , 2019 , 33, 405-412	7.6	15
44	Ultralow Loading Cobalt-Based Nanocatalyst for Benign and Efficient Aerobic Oxidation of Allylic Alcohols and Biobased Olefins. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1901-1908	8.3	7
43	Phenol-Based Ternary Deep Eutectic Solvents for Highly Efficient and Reversible Absorption of NH ₃ . <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3258-3266	8.3	67
42	Synthesis of Porous Sulfonamide Polymers by Capturing Atmospheric Sulfur Dioxide. <i>ChemSusChem</i> , 2018 , 11, 1751-1755	8.3	6
41	Highly Efficient Indirect Hydration of Olefins to Alcohols Using Superacidic Polyoxometalate-Based Ionic Hybrids Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 6654-6663	3.9	15
40	A green and efficient hydration of alkynes catalyzed by hierarchically porous poly(ionic liquid)s solid strong acids. <i>Applied Catalysis A: General</i> , 2018 , 564, 56-63	5.1	24
39	Taming electronic properties of boron nitride nanosheets as metal-free catalysts for aerobic oxidative desulfurization of fuels. <i>Green Chemistry</i> , 2018 , 20, 4453-4460	10	79
38	Co-N-C catalysts synthesized by pyrolysis of Co-based deep eutectic solvents for aerobic oxidation of alcohols. <i>New Journal of Chemistry</i> , 2018 , 42, 15871-15878	3.6	9
37	Chemical solvent in chemical solvent: A class of hybrid materials for effective capture of CO ₂ . <i>AIChE Journal</i> , 2018 , 64, 632-639	3.6	130
36	Ionic liquid formulated hybrid solvents for CO ₂ capture. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017 , 5, 67-73	7.9	35

35	Synthesis of Ditetrahydrofurfuryl Carbonate as a Fuel Additive Catalyzed by Aminopolycarboxylate Ionic Liquids. <i>Catalysis Letters</i> , 2017 , 147, 1347-1354	2.8	4
34	Controllable Brønsted acid-promoted aerobic oxidation via solvation-induced proton transfer: Metal-free construction of quinazolinones and dihydroquinazolinones. <i>Molecular Catalysis</i> , 2017 , 434, 134-139	3.3	16
33	Highly Efficient Carbon Monoxide Capture by Carbanion-Functionalized Ionic Liquids through C-Site Interactions. <i>Angewandte Chemie</i> , 2017 , 129, 6947-6951	3.6	22
32	Rücktitelbild: Highly Efficient Carbon Monoxide Capture by Carbanion-Functionalized Ionic Liquids through C-Site Interactions (Angew. Chem. 24/2017). <i>Angewandte Chemie</i> , 2017 , 129, 7108-7108	3.6	
31	Highly Efficient Carbon Monoxide Capture by Carbanion-Functionalized Ionic Liquids through C-Site Interactions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6843-6847	16.4	63
30	Facilely synthesized meso-macroporous polymer as support of poly(ethyleneimine) for highly efficient and selective capture of CO ₂ . <i>Chemical Engineering Journal</i> , 2017 , 314, 466-476	14.7	63
29	Highly efficient and selective absorption of H ₂ S in phenolic ionic liquids: A cooperative result of anionic strong basicity and cationic hydrogen-bond donation. <i>Chemical Engineering Science</i> , 2017 , 173, 253-263	4.4	76
28	Remarkably efficient hydrolysis of cinnamaldehyde to natural benzaldehyde in amino acid ionic liquids. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 3374-3380	2.8	4
27	Multi-Molar Absorption of CO ₂ by the Activation of Carboxylate Groups in Amino Acid Ionic Liquids. <i>Angewandte Chemie</i> , 2016 , 128, 7282-7286	3.6	35
26	Rational design and synthesis of a porous, task-specific polycarbazole for efficient CO ₂ capture. <i>Chemical Communications</i> , 2016 , 52, 4454-7	5.8	47
25	Physicochemical Properties and CO ₂ Solubility of Tetrabutylphosphonium Carboxylate Ionic Liquids. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2016 , 32, 605-610	3.8	5
24	Multi-Molar Absorption of CO ₂ by the Activation of Carboxylate Groups in Amino Acid Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7166-70	16.4	212
23	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> , 2016 , 41, 122-129	6.3	20
22	Facile one-pot synthesis of glycidol from glycerol and dimethyl carbonate catalyzed by tetraethylammonium amino acid ionic liquids. <i>Catalysis Communications</i> , 2015 , 66, 25-29	3.2	22
21	Facile One-Pot Synthesis of Flavanones Using Tetramethylguanidinium-Based Ionic Liquids as Catalysts. <i>Catalysis Letters</i> , 2015 , 145, 1830-1836	2.8	3
20	Melting Mechanism and Structure Evolution of Au Nanofilms Explored by Molecular Dynamics Simulations. <i>Chinese Journal of Chemical Physics</i> , 2015 , 28, 623-629	0.9	1
19	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> , 2015 , 119, 1768-1781	3.8	40
18	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> , 2015 , 492, 177-183	5.1	21

17	Low-Viscosity Tetramethylguanidinium-Based Ionic Liquids with Different Phenolate Anions: Synthesis, Characterization, and Physical Properties. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 4031-4038	2.8	15
16	Facile synthesis of fructose from ethyl acetoacetate and ethylene glycol catalyzed by SO ₃ H-functionalized Brønsted acidic ionic liquids. <i>RSC Advances</i> , 2014 , 4, 22520	3.7	15
15	MOR zeolite supported Brønsted acidic ionic liquid: an efficient and recyclable heterogeneous catalyst for ketalization. <i>RSC Advances</i> , 2014 , 4, 12160-12167	3.7	29
14	SO ₃ H-functionalized Brønsted acidic ionic liquids as efficient catalysts for the synthesis of isoamyl salicylate. <i>RSC Advances</i> , 2014 , 4, 1-7	3.7	40
13	Tetrabutylphosphonium amino acid ionic liquids as efficient catalysts for solvent-free Knoevenagel condensation reactions. <i>Korean Journal of Chemical Engineering</i> , 2014 , 31, 1377-1383	2.8	13
12	Synergistic catalysis of MCM-41 immobilized Cu ⁰ /Ni nanoparticles in hydrolytic dehydrogenation of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 13389-13395	6.7	89
11	Ultrafine Ru nanoparticles embedded in SiO ₂ nanospheres: Highly efficient catalysts for hydrolytic dehydrogenation of ammonia borane. <i>Journal of Power Sources</i> , 2014 , 257, 293-299	8.9	167
10	Synthesis and Thermophysical Properties of Biocompatible Cholinium-Based Amino Acid Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1542-1548	2.8	152
9	Synthesis of Tetrabutylphosphonium Carboxylate Ionic Liquids and Its Catalytic Activities for the Alcoholysis Reaction of Propylene Oxide. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 17111-17116	3.9	116
8	Kinetics Study of the Ketalization Reaction of Cyclohexanone with Glycol Using Brønsted Acidic Ionic Liquids as Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 16263-16269	3.9	23
7	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> , 2012 , 10,	1.2	2
6	Structural and electronic properties of phosphorus-doped titanium clusters: A DFT study. <i>Computational and Theoretical Chemistry</i> , 2011 , 977, 50-54	2	8
5	Kinetics for the Esterification Reaction of n-Butanol with Acetic Acid Catalyzed by Noncorrosive Brønsted Acidic Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 1989-1996	3.9	58
4	Noncorrosive ionic liquids composed of [HSO ₄] as esterification catalysts. <i>Chemical Engineering Journal</i> , 2011 , 171, 1333-1339	14.7	56
3	Cuprous-based composite ionic liquids for the selective absorption of CO ₂ : Experimental study and thermodynamic analysis. <i>AIChE Journal</i> ,	3.6	2
2	Phosphomolybdic acid encapsulated in ZIF-8-based porous ionic liquids for reactive extraction desulfurization of fuels. <i>Inorganic Chemistry Frontiers</i> ,	6.8	5
1	Investigation of Amine-Based Ternary Deep Eutectic Solvents for Efficient, Rapid, and Reversible SO ₂ Absorption. <i>Energy & Fuels</i> ,	4.1	3