

Kuan Huang

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101
papers

3,701
citations

38
h-index

57
g-index

107
ext. papers

4,613
ext. citations

7.1
avg, IF

6.12
L-index

#	Paper	IF	Citations
101	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
100	Hydrophobic Solid Acids and Their Catalytic Applications in Green and Sustainable Chemistry. <i>ACS Catalysis</i> , 2018 , 8, 372-391	13.1	138
99	Solvent-Free Self-Assembly to the Synthesis of Nitrogen-Doped Ordered Mesoporous Polymers for Highly Selective Capture and Conversion of CO. <i>Advanced Materials</i> , 2017 , 29, 1700445	24	135
98	Synthesis of Porous Polymeric Catalysts for the Conversion of Carbon Dioxide. <i>ACS Catalysis</i> , 2018 , 8, 9079-9102	13.1	135
97	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
96	Thermodynamic validation of 1-alkyl-3-methylimidazolium carboxylates as task-specific ionic liquids for H ₂ S absorption. <i>AICHE Journal</i> , 2013 , 59, 2227-2235	3.6	111
95	SO ₂ absorption in acid salt ionic liquids/sulfolane binary mixtures: Experimental study and thermodynamic analysis. <i>Chemical Engineering Journal</i> , 2014 , 237, 478-486	14.7	102
94	Chitosan-derived mesoporous carbon with ultrahigh pore volume for amine impregnation and highly efficient CO ₂ capture. <i>Chemical Engineering Journal</i> , 2019 , 359, 1159-1165	14.7	102
93	Protic ionic liquids for the selective absorption of H ₂ S from CO ₂ : Thermodynamic analysis. <i>AICHE Journal</i> , 2014 , 60, 4232-4240	3.6	93
92	Thermodynamic and molecular insights into the absorption of H ₂ S, CO ₂ , and CH ₄ in choline chloride plus urea mixtures. <i>AICHE Journal</i> , 2019 , 65, e16574	3.6	90
91	Absorption of SO ₂ in aqueous solutions of mixed hydroxylammonium dicarboxylate ionic liquids. <i>Chemical Engineering Journal</i> , 2013 , 215-216, 36-44	14.7	77
90	Hydrophobic protic ionic liquids tethered with tertiary amine group for highly efficient and selective absorption of H ₂ S from CO ₂ . <i>AICHE Journal</i> , 2016 , 62, 4480-4490	3.6	77
89	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
88	Facilitated separation of CO ₂ and SO ₂ through supported liquid membranes using carboxylate-based ionic liquids. <i>Journal of Membrane Science</i> , 2014 , 471, 227-236	9.6	74
87	Promoted adsorption of CO ₂ on amine-impregnated adsorbents by functionalized ionic liquids. <i>AICHE Journal</i> , 2018 , 64, 3671-3680	3.6	71
86	Solvothermal synthesis of hierarchically nanoporous organic polymers with tunable nitrogen functionality for highly selective capture of CO ₂ . <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13063-13070 ¹³		69
85	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

84	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
83	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
82	Low-viscous fluorine-substituted phenolic ionic liquids with high performance for capture of CO ₂ . <i>Chemical Engineering Journal</i> , 2015 , 274, 30-38	14.7	57
81	Noncorrosive ionic liquids composed of [HSO ₄] as esterification catalysts. <i>Chemical Engineering Journal</i> , 2011 , 171, 1333-1339	14.7	56
80	Comparative Study of the Solubilities of SO ₂ in Five Low Volatile Organic Solvents (Sulfolane, Ethylene Glycol, Propylene Carbonate, N-Methylimidazole, and N-Methylpyrrolidone). <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 1202-1212	2.8	55
79	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	3.7	54
78	Absorption of CO ₂ in amino acid ionic liquid (AAIL) activated MDEA solutions. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 19, 379-386	4.2	53
77	One-step synthesis of nitrogen-doped graphene-like meso-macroporous carbons as highly efficient and selective adsorbents for CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14567-14571	13	53
76	Nitrogen-Decorated, Ordered Mesoporous Carbon Spheres as High-Efficient Catalysts for Selective Capture and Oxidation of H ₂ S. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7609-7618	8.3	50
75	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	9.6	50
74	Effect of alkalinity on absorption capacity and selectivity of SO ₂ and H ₂ S over CO ₂ : Substituted benzoate-based ionic liquids as the study platform. <i>Chemical Engineering Journal</i> , 2016 , 297, 265-276	14.7	50
73	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	47
72	Effective and Reversible Capture of NH ₃ by Ethylamine Hydrochloride Plus Glycerol Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10552-10560	8.3	46
71	Chemical dual-site capture of NH ₃ by unprecedentedly low-viscosity deep eutectic solvents. <i>Chemical Communications</i> , 2020 , 56, 2399-2402	5.8	46
70	Solubilities of ammonia in choline chloride plus urea at (298.2±0.2) K and (0±0.0) kPa. <i>Journal of Chemical Thermodynamics</i> , 2019 , 129, 5-11	2.9	46
69	Aminopolymer functionalization of boron nitride nanosheets for highly efficient capture of carbon dioxide. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16241-16248	13	45
68	An efficient low-temperature route to nitrogen-doping and activation of mesoporous carbons for CO ₂ capture. <i>Chemical Communications</i> , 2015 , 51, 17261-4	5.8	44
67	Open and Hierarchical Carbon Framework with Ultralarge Pore Volume for Efficient Capture of Carbon Dioxide. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36961-36968	9.5	41

66	The ionic liquid-mediated Claus reaction: a highly efficient capture and conversion of hydrogen sulfide. <i>Green Chemistry</i> , 2016 , 18, 1859-1863	10	40
65	Ionic liquid electrolytes for aluminium secondary battery: Influence of organic solvents. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 757, 167-175	4.1	38
64	Design of Efficient, Hierarchical Porous Polymers Endowed with Tunable Structural Base Sites for Direct Catalytic Elimination of COS and HS. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29950-29959	9.5	38
63	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
62	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
61	Designing Low-Viscosity Deep Eutectic Solvents with Multiple Weak-Acidic Groups for Ammonia Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7352-7360	8.3	35
60	Rational Design of Azole-Based Deep Eutectic Solvents for Highly Efficient and Reversible Capture of Ammonia. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14170-14179	8.3	34
59	Significantly increasing porosity of mesoporous carbon by NaNH ₂ activation for enhanced CO ₂ adsorption. <i>Microporous and Mesoporous Materials</i> , 2016 , 230, 100-108	5.3	34
58	Effect of metal oxides modification on CO ₂ adsorption performance over mesoporous carbon. <i>Microporous and Mesoporous Materials</i> , 2017 , 249, 34-41	5.3	33
57	Manufacturing Acidities of Hydrogen-Bond Donors in Deep Eutectic Solvents for Effective and Reversible NH ₃ Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13408-13417	8.3	30
56	ROMP for Metal-Organic Frameworks: An Efficient Technique toward Robust and High-Separation Performance Membranes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34640-34645	9.5	29
55	Pyridine-Functionalized and Metallized Meso-Macroporous Polymers for Highly Selective Capture and Catalytic Conversion of CO ₂ into Cyclic Carbonates. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 15008-15016	3.9	27
54	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
53	Highly efficient and selective separation of ammonia by deep eutectic solvents through cooperative acid-base and strong hydrogen-bond interaction. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116463	6	25
52	Ordered Mesoporous Polymers for Biomass Conversions and Cross-Coupling Reactions. <i>ChemSusChem</i> , 2016 , 9, 2496-504	8.3	24
51	Amine Functionalization of Microsized and Nanosized Mesoporous Carbons for Carbon Dioxide Capture. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7355-7361	3.9	24
50	Aqueous and Template-Free Synthesis of Meso-Macroporous Polymers for Highly Selective Capture and Conversion of Carbon Dioxide. <i>ChemSusChem</i> , 2017 , 10, 4144-4149	8.3	24
49	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

48	Highly Efficient, Reversible, and Selective Absorption of SO ₂ in 1-Ethyl-3-methylimidazolium Chloride Plus Imidazole Deep Eutectic Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 13696-13705	3.9	22
47	Impact of β -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	10	22
46	Sigmoid Correlations for Gas Solubility and Enthalpy Change of Chemical Absorption of CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 10126-10133	3.9	21
45	Solvent-free and one-pot synthesis of ultramicroporous carbons with ultrahigh nitrogen contents for sulfur dioxide capture. <i>Chemical Engineering Journal</i> , 2020 , 391, 123579	14.7	21
44	NH ₃ Solubilities and Physical Properties of Ethylamine Hydrochloride Plus Urea Deep Eutectic Solvents. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 3821-3830	2.8	20
43	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
42	Densities and viscosities of, and NH ₃ solubilities in deep eutectic solvents composed of ethylamine hydrochloride and acetamide. <i>Journal of Chemical Thermodynamics</i> , 2019 , 139, 105883	2.9	18
41	Deep Eutectic Solvents Formed by N-Methylacetamide and Heterocyclic Weak Acids for Highly Efficient and Reversible Chemical Absorption of Ammonia. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 2060-2067	3.9	18
40	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	18
39	Enhancing the activity of MoS ₂ /SiO ₂ -Al ₂ O ₃ bifunctional catalysts for suspended-bed hydrocracking of heavy oils by doping with Zr atoms. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 39, 126-126	3.2	18
38	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	4.1	17
37	Protic ionic liquid as excellent shuttle of MDEA for fast capture of CO ₂ . <i>AIChE Journal</i> , 2018 , 64, 209-219	3.6	16
36	Graphitic Carbon Nitride Functionalized with Polyethylenimine for Highly Effective Capture of Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 11031-11038	3.9	16
35	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
34	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
33	Solvothermal and template-free synthesis of N-Functionalized mesoporous polymer for amine impregnation and CO ₂ adsorption. <i>Microporous and Mesoporous Materials</i> , 2019 , 290, 109653	5.3	14
32	Highly efficient, selective and reversible capture of sulfur dioxide by methylated-polyethylenimine supported on graphitic carbon nitride. <i>Chemical Engineering Journal</i> , 2021 , 409, 127378	14.7	14
31	Solubilities of Carbon Dioxide in 1-Ethyl-3-methylimidazolium Thiocyanate, 1-Ethyl-3-methylimidazolium Dicyanamide, and 1-Ethyl-3-methylimidazolium Tricyanomethanide at (298.2 to 373.2) K and (0 to 300.0) kPa. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 4108-4116	2.8	12

30	Sugar-based natural deep eutectic solvents as potential absorbents for NH ₃ capture at elevated temperatures and reduced pressures. <i>Journal of Molecular Liquids</i> , 2020 , 317, 113992	6	12
29	Deep eutectic solvents with multiple weak acid sites for highly efficient, reversible and selective absorption of ammonia. <i>Separation and Purification Technology</i> , 2021 , 269, 118791	8.3	12
28	1-ethyl-3-methylimidazolium chloride plus imidazole deep eutectic solvents as physical solvents for remarkable separation of H ₂ S from CO ₂ . <i>Separation and Purification Technology</i> , 2021 , 276, 119313	8.3	12
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> , 2018 , 42, 15871-15878	3.6	9
26	Meso-macroporous polymer densely functionalized with tertiary amine groups as effective sorbents for SO ₂ capture. <i>Chemical Engineering Journal</i> , 2021 , 422, 129699	14.7	9
25	Graphene-based mesoporous frameworks with ultrahigh nitrogen contents for highly efficient and selective sulfur dioxide capture. <i>Chemical Engineering Journal</i> , 2021 , 412, 128677	14.7	7
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> , 2019 , 7, 1901-1908	8.3	7
23	Dependence of zeolite topology on alkane diffusion inside diverse channels. <i>AIChE Journal</i> , 2020 , 66, e16269	3.6	6
22	Synthesis of Porous Sulfonamide Polymers by Capturing Atmospheric Sulfur Dioxide. <i>ChemSusChem</i> , 2018 , 11, 1751-1755	8.3	6
21	Systematic Study on the General Preparation of Ionic Liquids with High Purity via Hydroxide Intermediates. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 6871-6880	3.9	6
20	Slurry-Phase Hydrocracking of a Decalin/Phenanthrene Mixture by MoS ₂ /SiO ₂ -rO ₂ Bifunctional Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 230-242	3.9	6
19	Interfacial Engineering of Supported Liquid Membranes by Vapor Cross-Linking for Enhanced Separation of Carbon Dioxide. <i>ChemSusChem</i> , 2018 , 11, 185-192	8.3	6
18	Reversible Chemical Absorption of CO ₂ in Polyethylenimine Supported by Low-Viscous Tetrabutylphosphonium 2-Fluorophenolate. <i>Energy & Fuels</i> , 2020 , 34, 3493-3500	4.1	5
17	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
16	Amino Acid Modified Macroreticular Anion Exchange Resins for CO ₂ Adsorption. <i>Journal of Chemical Engineering of Japan</i> , 2015 , 48, 268-275	0.8	4
15	Tunable ionic liquids as oil-soluble precursors of dispersed catalysts for suspended-bed hydrocracking of heavy residues. <i>Fuel</i> , 2021 , 313, 122664	7.1	4
14	Developing porous organic polymers as precursors of nitrogen-decorated micro-mesoporous carbons for efficient capture and conversion of carbon dioxide. <i>Journal of Materials Science</i> , 2021 , 56, 9315-9329	4.3	4
13	New deep eutectic solvents formed by 1-ethyl-3-methylimidazolium chloride and dicyandiamide: Physicochemical properties and SO ₂ absorption performance. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021 , 119, 45-51	5.3	4

12	Facilely synthesized mesoporous polymer for dispersion of amino acid ionic liquid and effective capture of carbon dioxide from anthropogenic source. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021 , 125, 115-121	5.3	4
11	Improving conversion of methyl palmitate to diesel-like fuel through catalytic deoxygenation with B ₂ O ₃ -modified ZrO ₂ . <i>Fuel Processing Technology</i> , 2022 , 226, 107091	7.2	3
10	Densities and viscosities of, and solubilities of acidic gases (SO ₂ and H ₂ S) in natural deep eutectic solvents. <i>Journal of Chemical Thermodynamics</i> , 2022 , 167, 106713	2.9	3
9	Solubilities of Ammonia in Polyethylene Glycols at 298.2B53.2 K and 0000 kPa. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 97-105	2.8	3
8	Physical Properties and NH ₃ Solubilities of Deep Eutectic Solvents Formed by Choline Chloride and Glycols. <i>Fluid Phase Equilibria</i> , 2021 , 529, 112871	2.5	2
7	Dispersing aminopolycarboxylate ionic liquids in mesoporous organic polymer for highly efficient and improved carbon capture from dilute source. <i>Journal of Molecular Liquids</i> , 2021 , 338, 116653	6	2
6	Effective Capture of Carbon Dioxide by Tetraethylenepentamine Assisted with 1-Ethyl-3-methylimidazolium Acetate: Experimental and Thermodynamic Analysis. <i>Energy & Fuels</i> , 2019 , 33, 11399-11407	4.1	1
5	Interactions of an Imine Polymer with Nanoporous Silica and Carbon in Hybrid Adsorbents for Carbon Capture. <i>Langmuir</i> , 2021 , 37, 4622-4631	4	1
4	Trialkylmethylammonium molybdate ionic liquids as novel oil-soluble precursors of dispersed metal catalysts for slurry-phase hydrocracking of heavy oils. <i>Chemical Engineering Science</i> , 2022 , 253, 117516	4.4	1
3	Commercial anion exchange resin modified with azolates for remarkable separation of SO ₂ from CO ₂ . <i>Fuel</i> , 2021 , 310, 122468	7.1	0
2	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	
1	Carbon Membranes for CO ₂ Separation 2020 , 215-236		