

# Qiwei Yang

## List of Publications by Citations

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papers

5,204  
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40  
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67  
g-index

179  
ext. papers

6,505  
ext. citations

8  
avg, IF

5.85  
L-index

#	Paper	IF	Citations
157	Pore chemistry and size control in hybrid porous materials for acetylene capture from ethylene. <i>Science</i> , <b>2016</b> , 353, 141-4	33.3	783
156	Ionic liquids and derived materials for lithium and sodium batteries. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 2020-2064	58.5	297
155	Immobilization of Ag(i) into a metal-organic framework with -SO <sub>3</sub> H sites for highly selective olefin-paraffin separation at room temperature. <i>Chemical Communications</i> , <b>2015</b> , 51, 2859-62	5.8	136
154	Ultrahigh and Selective SO Uptake in Inorganic Anion-Pillared Hybrid Porous Materials. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606929	24	127
153	Molecular Sieving of Ethane from Ethylene through the Molecular Cross-Section Size Differentiation in Gallate-based Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 16020-16025	16.4	121
152	Fine Tuning and Specific Binding Sites with a Porous Hydrogen-Bonded Metal-Complex Framework for Gas Selective Separations. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 4596-4603	16.4	115
151	Sorting of C Olefins with Interpenetrated Hybrid Ultramicroporous Materials by Combining Molecular Recognition and Size-Sieving. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 16282-16287	16.4	101
150	In situ hydrogenation and decarboxylation of oleic acid into heptadecane over a CuNi alloy catalyst using methanol as a hydrogen carrier. <i>Green Chemistry</i> , <b>2018</b> , 20, 197-205	10	99
149	A Robust Squarate-Based Metal-Organic Framework Demonstrates Record-High Affinity and Selectivity for Xenon over Krypton. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 9358-9364	16.4	97
148	A Single-Molecule Propyne Trap: Highly Efficient Removal of Propyne from Propylene with Anion-Pillared Ultramicroporous Materials. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705374	24	92
147	Efficient Synthesis of Cyclic Carbonates from Atmospheric CO <sub>2</sub> Using a Positive Charge Delocalized Ionic Liquid Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 2841-2846	8.3	80
146	Confining Noble Metal (Pd, Au, Pt) Nanoparticles in Surfactant Ionic Liquids: Active Non-Mercury Catalysts for Hydrochlorination of Acetylene. <i>ACS Catalysis</i> , <b>2015</b> , 5, 6724-6731	13.1	80
145	Improved separation efficiency using ionic liquid/solvent mixtures as the extractant in liquid-liquid extraction: A multiple adjustment and synergistic effect. <i>Chemical Engineering Journal</i> , <b>2012</b> , 181-182, 334-342	14.7	79
144	Catalytic dehydration of glucose to 5-hydroxymethylfurfural with a bifunctional metal-organic framework. <i>AIChE Journal</i> , <b>2016</b> , 62, 4403-4417	3.6	75
143	Inverse Adsorption Separation of CO/CH <sub>4</sub> Mixture in Cyclodextrin-Based Metal-Organic Frameworks. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2543-2550	9.5	75
142	Hybrid Deep Eutectic Solvents with Flexible Hydrogen-Bonded Supramolecular Networks for Highly Efficient Uptake of NH <sub>3</sub> . <i>ChemSusChem</i> , <b>2017</b> , 10, 3368-3377	8.3	74
141	Selective Separation of Tocopherol Homologues by Liquid-Liquid Extraction Using Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 6417-6422	3.9	67

140	Efficient removal of both basic and non-basic nitrogen compounds from fuels by deep eutectic solvents. <i>Green Chemistry</i> , <b>2016</b> , 18, 157-164	10	63
139	Controlling Pore Shape and Size of Interpenetrated Anion-Pillared Ultramicroporous Materials Enables Molecular Sieving of CO Combined with Ultrahigh Uptake Capacity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 16628-16635	9.5	61
138	Shaping of ultrahigh-loading MOF pellet with a strongly anti-tearing binder for gas separation and storage. <i>Chemical Engineering Journal</i> , <b>2018</b> , 354, 1075-1082	14.7	61
137	Design and screening of ionic liquids for C <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> H <sub>4</sub> separation by COSMO-RS and experiments. <i>AIChE Journal</i> , <b>2015</b> , 61, 2016-2027	3.6	61
136	Long-Chain Fatty Acid-Based Phosphonium Ionic Liquids with Strong Hydrogen-Bond Basicity and Good Lipophilicity: Synthesis, Characterization, and Application in Extraction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 309-316	8.3	60
135	An Asymmetric Anion-Pillared Metal-Organic Framework as a Multisite Adsorbent Enables Simultaneous Removal of Propyne and Propadiene from Propylene. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 13145-13149	16.4	58
134	Enhancing the basicity of ionic liquids by tuning the cation-anion interaction strength and via the anion-tethered strategy. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 1071-9	3.4	57
133	Ambient lithium-SO <sub>2</sub> batteries with ionic liquids as electrolytes. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 2099-103	16.4	57
132	Brønsted acidic ionic liquids as novel catalysts for the hydrolyzation of soybean isoflavone glycosides. <i>Catalysis Communications</i> , <b>2008</b> , 9, 1307-1311	3.2	57
131	New Insights into CO <sub>2</sub> Absorption Mechanisms with Amino-Acid Ionic Liquids. <i>ChemSusChem</i> , <b>2016</b> , 9, 806-12	8.3	54
130	A calcium-based microporous metal-organic framework for efficient adsorption separation of light hydrocarbons. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 446-455	14.7	53
129	Highly efficient separation of methane from nitrogen on a squarate-based metal-organic framework. <i>AIChE Journal</i> , <b>2018</b> , 64, 3681-3689	3.6	52
128	Efficient adsorption separation of acetylene and ethylene via supported ionic liquid on metal-organic framework. <i>AIChE Journal</i> , <b>2017</b> , 63, 2165-2175	3.6	51
127	A thermostable anion-pillared metal-organic framework for C <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> H <sub>4</sub> and C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> separations. <i>Chemical Engineering Journal</i> , <b>2018</b> , 352, 803-810	14.7	49
126	Molecular Sieving of Ethane from Ethylene through the Molecular Cross-Section Size Differentiation in Gallate-based Metal-Organic Frameworks. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 16252-16257	3.6	47
125	A highly sensitive flexible metal-organic framework sets a new benchmark for separating propyne from propylene. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 24452-24458	13	46
124	The essential role of hydrogen-bonding interaction in the extractive separation of phenolic compounds by ionic liquid. <i>AIChE Journal</i> , <b>2013</b> , 59, 1657-1667	3.6	45
123	Separation of Xe from Kr with Record Selectivity and Productivity in Anion-Pillared Ultramicroporous Materials by Inverse Size-Sieving. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 3423-3428	16.4	45

122	Aqueous Biphasic System Containing Long Chain Anion-Functionalized Ionic Liquids for High-Performance Extraction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 3365-3372	8.3	44
121	Synthesis of anion-functionalized mesoporous poly(ionic liquid)s via a microphase separation-hypercrosslinking strategy: highly efficient adsorbents for bioactive molecules. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 14114-14123	13	42
120	Recent Advances in Separation of Bioactive Natural Products. <i>Chinese Journal of Chemical Engineering</i> , <b>2013</b> , 21, 937-952	3.2	41
119	Hexafluorogermanate (GeFSIX) Anion-Functionalized Hybrid Ultramicroporous Materials for Efficiently Trapping Acetylene from Ethylene. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 7266-7274	3.9	41
118	Efficient, Selective, and Reversible SO <sub>2</sub> Capture with Highly Crosslinked Ionic Microgels via a Selective Swelling Mechanism. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704292	15.6	40
117	Sorting of C <sub>4</sub> Olefins with Interpenetrated Hybrid Ultramicroporous Materials by Combining Molecular Recognition and Size-Sieving. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 16500-16505	3.6	39
116	Engineering the Pore Size of Pillared-Layer Coordination Polymers Enables Highly Efficient Adsorption Separation of Acetylene from Ethylene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 28197-28204	9.5	39
115	Differential solubility of ethylene and acetylene in room-temperature ionic liquids: a theoretical study. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 3944-53	3.4	39
114	Selective Liquid-Liquid Extraction of Natural Phenolic Compounds Using Amino Acid Ionic Liquids: A Case of Tocopherol and Methyl Linoleate Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 6480-6488	3.9	36
113	Molecular Sieving of C-C Alkene from Alkyne with Tuned Threshold Pressure in Robust Layered Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 12725-12730	16.4	36
112	Self-assembly induced solubilization of drug-like molecules in nanostructured ionic liquids. <i>Chemical Communications</i> , <b>2015</b> , 51, 13170-3	5.8	35
111	Performance Comparison of Metal-Organic Framework Extrudates and Commercial Zeolite for Ethylene/Ethane Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 1645-1654	3.9	32
110	M-Gallate (M = Ni, Co) Metal-Organic Framework-Derived Ni/C and Bimetallic Ni/Co/C Catalysts for Lignin Conversion into Monophenols. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 12955-12963	8.3	32
109	Molecular Dynamics Simulation Study on the Absorption of Ethylene and Acetylene in Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 9308-9316	3.9	32
108	An Asymmetric Anion-Pillared Metal-Organic Framework as a Multisite Adsorbent Enables Simultaneous Removal of Propyne and Propadiene from Propylene. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 13329-13333	3.6	31
107	Volumetric Properties of Binary Mixtures of 1-Butyl-3-methylimidazolium Chloride + Water or Hydrophilic Solvents at Different Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2010</b> , 55, 1750-1754	2.8	30
106	Enhanced solubilization and extraction of hydrophobic bioactive compounds using water/ionic liquid mixtures. <i>Green Chemistry</i> , <b>2016</b> , 18, 3549-3557	10	30
105	Functionalized Metal-Organic Framework as a Biomimetic Heterogeneous Catalyst for Transfer Hydrogenation of Imines. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 9772-9777	9.5	29

104	Highly efficient treatment of textile dyeing sludge by CO thermal plasma gasification. <i>Waste Management</i> , <b>2019</b> , 90, 29-36	8.6	29
103	The effect of molecular solvents on the viscosity, conductivity and ionicity of mixtures containing chloride anion-based ionic liquid. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2013</b> , 19, 1708-1714	6.3	28
102	Selective Extraction of 1-Hexene Against n-Hexane in Ionic Liquids with or without Silver Salt. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 8588-8597	3.9	27
101	Preparation of ordered N-doped mesoporous carbon materials via a polymer-ionic liquid assembly. <i>Chemical Communications</i> , <b>2017</b> , 53, 4915-4918	5.8	26
100	Nonaqueous lyotropic ionic liquid crystals: preparation, characterization, and application in extraction. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 9150-6	4.8	26
99	Separation of soybean isoflavone aglycone homologues by ionic liquid-based extraction. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 3432-40	5.7	26
98	Liquid-liquid extraction of lithium from aqueous solution using novel ionic liquid extractants via COSMO-RS and experiments. <i>Fluid Phase Equilibria</i> , <b>2018</b> , 459, 129-137	2.5	25
97	Deep Desulfurization with Record SO Adsorption on the Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 9040-9047	16.4	24
96	Simultaneous interlayer and intralayer space control in two-dimensional metal-organic frameworks for acetylene/ethylene separation. <i>Nature Communications</i> , <b>2020</b> , 11, 6259	17.4	23
95	Role of Hydrogen Bonds in Ionic-Liquid-Mediated Extraction of Natural Bioactive Homologues. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 5299-5308	3.9	23
94	High performance separation of sparingly aqua-/lipo-soluble bioactive compounds with an ionic liquid-based biphasic system. <i>Green Chemistry</i> , <b>2012</b> , 14, 2617	10	23
93	Polyethylenimine-Assisted Extraction of $\alpha$ -Tocopherol from Tocopherol Homologues and CO <sub>2</sub> -Triggered Fast Recovery of the Extractant. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 16025-16032	3.9	21
92	Synthesis and characterization of cellulose 3,5-dimethylphenylcarbamate silica hybrid spheres for enantioseparation of chiral $\beta$ -blockers. <i>Journal of Chromatography A</i> , <b>2013</b> , 1321, 38-47	4.5	21
91	Adsorptive Separation of Acetylene from Ethylene in Isostructural Gallate-Based Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 15516-15524	4.8	19
90	Separation of long chain fatty acids with different number of unsaturated bonds by fractional extraction: experimental and COSMO-RS study. <i>Food Chemistry</i> , <b>2014</b> , 143, 411-7	8.5	19
89	Improved Efficiency of Ethylene/Ethane Separation Using a Symmetrical Dual Nitrile-Functionalized Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2013</b> , 1, 1357-1363	8.3	19
88	Adsorptive Separation of Geometric Isomers of 2-Butene on Gallate-Based Metal-Organic Frameworks. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 9609-9616	9.5	18
87	One of the distinctive properties of ionic liquids over molecular solvents and inorganic salts: enhanced basicity stemming from the electrostatic environment and "free" microstructure. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 3682-8	3.4	18

- 86 Ambient Lithium<sup>+</sup>CO<sub>2</sub> Batteries with Ionic Liquids as Electrolytes. *Angewandte Chemie*, **2014**, 126, 2131-2135 18
- 85 Separation of Xe from Kr with Record Selectivity and Productivity in Anion-Pillared Ultramicroporous Materials by Inverse Size-Sieving. *Angewandte Chemie*, **2020**, 132, 3451-3456 3.6 18
- 84 Nanostructured Branched-Chain Carboxylate Ionic Liquids: Synthesis, Characterization, and Extraordinary Solubility for Bioactive Molecules. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 8983-8991 8.3 18
- 83 Long-Chain Carboxylate Ionic Liquids Combining High Solubility and Low Viscosity for Light Hydrocarbon Separations. *Industrial & Engineering Chemistry Research*, **2017**, 56, 7336-7344 3.9 17
- 82 Preparation of porous cellulose 3,5-dimethylphenylcarbamate hybrid organosilica particles for chromatographic applications. *Journal of Materials Chemistry B*, **2015**, 3, 620-628 7.3 17
- 81 Feasibility of ionic liquids as extractants for selective separation of vitamin D<sub>2</sub> and tachysterol by solvent extraction. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 3479-87 5.7 17
- 80 CoNi Alloy Nanoparticles Embedded in Metal-Organic Framework-Derived Carbon for the Highly Efficient Separation of Xenon and Krypton via a Charge-Transfer Effect. *Angewandte Chemie - International Edition*, **2021**, 60, 2431-2438 16.4 17
- 79 Carboxylate Ionic Liquids Combining Low Cytotoxicity toward HepG2 Cell and High Separation Efficiency for Bioactive Molecules. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 1974-1981 8.3 16
- 78 Deciphering a Reaction Network for the Switchable Production of Tetrahydroquinoline or Quinoline with MOF-Supported Pd Tandem Catalysts. *ACS Catalysis*, **2020**, 10, 5707-5714 13.1 16
- 77 Supramolecular Metal-Organic Framework for CO<sub>2</sub>/CH<sub>4</sub> and CO<sub>2</sub>/N<sub>2</sub> Separation. *Industrial & Engineering Chemistry Research*, **2020**, 59, 7866-7874 3.9 16
- 76 Thiourea-Catalyzed Cross-Dehydrogenative Coupling of C(sp<sup>3</sup>)H with Diethyl Phosphite. *European Journal of Organic Chemistry*, **2016**, 2016, 3939-3942 3.2 16
- 75 Effect of Tethering Strategies on the Surface Structure of Amine-Functionalized Ionic Liquids: Inspiration on the CO<sub>2</sub> Capture. *Journal of Physical Chemistry C*, **2013**, 117, 16012-16021 3.8 16
- 74 Accurate measurements of infinite dilution activity coefficients using gas chromatography with static-wall-coated open-tubular columns. *Analytical Chemistry*, **2012**, 84, 9109-15 7.8 16
- 73 Thiourea as an efficient organocatalyst for the transfer hydrogenation of 2-substituted quinoline derivatives. *RSC Advances*, **2014**, 4, 42566-42568 3.7 15
- 72 1-Ethyl-3-methylimidazolium acetate as a highly efficient organocatalyst for cyanosilylation of carbonyl compounds with trimethylsilyl cyanide. *Scientific Reports*, **2017**, 7, 42699 4.9 14
- 71 A spherical N-methyl-d-glucamine-based hybrid adsorbent for highly efficient adsorption of boric acid from water. *Separation and Purification Technology*, **2017**, 172, 43-50 8.3 14
- 70 Incorporation of N-Methyl-d-glucamine Functionalized Oligomer into MIL-101(Cr) for Highly Efficient Removal of Boric Acid from Water. *Chemistry - A European Journal*, **2016**, 22, 15290-15297 4.8 14
- 69 Adsorption separation of acetylene and ethylene in a highly thermostable microporous metal-organic framework. *Separation and Purification Technology*, **2018**, 195, 238-243 8.3 14



68	Mechanistic studies of thiourea-catalyzed cross-dehydrogenative C-P and C-C coupling reactions and their further applications. <i>Tetrahedron</i> , <b>2017</b> , 73, 3118-3124	2.4	13
67	Metal nanoparticles in ionic liquid-cosolvent biphasic systems as active catalysts for acetylene hydrochlorination. <i>AIChE Journal</i> , <b>2018</b> , 64, 2536-2544	3.6	13
66	Hybridization of metal-organic framework and monodisperse spherical silica for chromatographic separation of xylene isomers. <i>Chinese Journal of Chemical Engineering</i> , <b>2019</b> , 27, 818-826	3.2	13
65	Calcium-Based Metal-Organic Framework for Simultaneous Capture of Trace Propyne and Propadiene from Propylene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 17147-17154	9.5	12
64	Microporous Carbon Adsorbents Prepared by Activating Reagent-Free Pyrolysis for Upgrading Low-Quality Natural Gas. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 977-985	8.3	12
63	MIL-101(Cr) as a synergistic catalyst for the reduction of imines with trichlorosilane. <i>Molecular Catalysis</i> , <b>2018</b> , 445, 163-169	3.3	12
62	Proton Microenvironment and Interfacial Structure of Sulfonic-Acid-Functionalized Ionic Liquids. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 20379-20388	3.8	11
61	Facile Fabrication of Hierarchical MOF-Metal Nanoparticle Tandem Catalysts for the Synthesis of Bioactive Molecules. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 23002-23009	9.5	11
60	Hydropyrolysis of n-Hexane and Toluene to Acetylene in Rotating-Arc Plasma. <i>Energies</i> , <b>2017</b> , 10, 899	3.1	11
59	Molecular Sieving of C2-C3 Alkene from Alkyne with Tuned Threshold Pressure in Robust Layered Metal-Organic Frameworks. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 12825-12830	3.6	10
58	De novo synthesis of microspherical cellulose 3,5-dichlorophenylcarbamates: An organic-inorganic hybrid chiral stationary phase for enantioseparation. <i>Separation and Purification Technology</i> , <b>2020</b> , 238, 116480	8.3	10
57	Kinetic modeling and experimental validation of the pyrolysis of propane in hydrogen plasma. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 22689-22697	6.7	10
56	Biphasic Systems That Consist of Hydrophilic Ionic Liquid, Water, and Ethyl Acetate: The Effects of Interactions on the Phase Behavior. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 10784-10790	3.9	9
55	Numerical simulation of the entrained flow hydropyrolysis of coal in magnetically rotating plasma reactor. <i>Energy Conversion and Management</i> , <b>2017</b> , 148, 431-439	10.6	9
54	Carboxylate Ionic Liquids with Large Free Volume and Strong Hydrogen Bonding Basicity for Efficient Separation of Butadiene and n-Butene. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 13519-13527	3.9	9
53	Selective separation of zwitterionic phospholipid homologues with functional ionic liquids as extractants. <i>RSC Advances</i> , <b>2015</b> , 5, 77581-77588	3.7	8
52	A general method for the separation of amphiphilic surface-active poly(ethylene glycol) mono- and di-esters with long-chain ionic liquid-based biphasic systems. <i>Green Chemistry</i> , <b>2014</b> , 16, 102-107	10	8
51	Pyrolysis of Polyolefins Using Rotating Arc Plasma Technology for Production of Acetylene. <i>Energies</i> , <b>2017</b> , 10, 513	3.1	8

50	Simulated moving bed chromatography for the separation of ethyl esters of eicosapentaenoic acid and docosahexaenoic acid under nonlinear conditions. <i>Journal of Chromatography A</i> , <b>2015</b> , 1425, 189-97	4.5	8
49	Ionic liquid bmimCl/formamide mixture as the polar phase of nonaqueous microemulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2012</b> , 414, 82-87	5.1	8
48	Solvatochromic Parameters of the Binary Mixtures of Imidazolium Chloride Ionic Liquid Plus Molecular Solvent. <i>Journal of Applied Solution Chemistry and Modeling</i> , <b>2014</b> , 3, 223-230		8
47	Pyrolysis of pulverized coal to acetylene in magnetically rotating hydrogen plasma reactor. <i>Fuel Processing Technology</i> , <b>2017</b> , 167, 721-729	7.2	7
46	Separation of highly unsaturated fatty acid methyl esters from model bio-oils with ionic liquid-cosolvent as extractants. <i>RSC Advances</i> , <b>2016</b> , 6, 60709-60716	3.7	7
45	CoNi Alloy Nanoparticles Embedded in Metal-Organic Framework-Derived Carbon for the Highly Efficient Separation of Xenon and Krypton via a Charge-Transfer Effect. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 2461-2468	3.6	7
44	Enhanced self-assembly for the solubilization of cholesterol in molecular solvent/ionic liquid mixtures. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 10835-10842	3.6	6
43	New catalytic effect of thiourea on the oxidative cyanation of N-aryltetrahydroisoquinolines. <i>Tetrahedron Letters</i> , <b>2019</b> , 60, 348-351	2	6
42	Turn-On Photocatalysis: Creating Lone-Pair Donor-Acceptor Bonds in Organic Photosensitizer to Enhance Intersystem Crossing. <i>Advanced Science</i> , <b>2021</b> , 8, e2100631	13.6	6
41	Visible-Light-Mediated Dealkylative Coupling of Trialkylamines with Dialkyl Acetylenedicarboxylates. <i>Synlett</i> , <b>2017</b> , 28, 1116-1120	2.2	5
40	Gallate-Based Metal-Organic Frameworks for Highly Efficient Removal of Trace Propyne from Propylene. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 13716-13723	3.9	5
39	Gas production from polyethylene terephthalate using rotating arc plasma. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2018</b> , 128, 257-262	3.7	5
38	Determination and Correlation of Solubility of Nonivamide in Different Solvents. <i>Chinese Journal of Chemical Engineering</i> , <b>2014</b> , 22, 1141-1144	3.2	5
37	Cooperative Interplay of Brønsted Acid and Lewis Acid Sites in MIL-101(Cr) for Cross-Dehydrogenative Coupling of C-H Bonds. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 10845-10854	9.5	5
36	Progress in the Enantioseparation of $\beta$ -Blockers by Chromatographic Methods. <i>Molecules</i> , <b>2021</b> , 26,	4.8	5
35	Separation of Hydrophobic Compounds Differing in a Monounsaturated Double Bond Using Hydrophilic Ionic Liquid/Water Mixtures as Extractants. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 2379-2385	8.3	4
34	Ionic Liquid-Mediated Liquid-Liquid Extraction <b>2011</b> ,		4
33	Shell-like Xenon Nano-Traps within Angular Anion-Pillared Layered Porous Materials for Boosting Xe/Kr Separation.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	4



32	MIL-101(Cr)-SO <sub>3</sub> H Catalyzed Transfer Hydrogenation of 2-Substituted Quinoline Derivatives. <i>Chinese Journal of Organic Chemistry</i> , <b>2019</b> , 39, 1681	3	4
31	Organocatalyzed cross-dehydrogenative coupling for C(sp <sup>3</sup> )–C(sp <sup>3</sup> ) bonds formation: a rapid access to aminoxy isochromans. <i>Catalysis Letters</i> , <b>2019</b> , 149, 574-579	2.8	4
30	Shaping of gallate-based metal-organic frameworks for adsorption separation of ethylene from acetylene and ethane. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 581, 177-184	9.3	4
29	A robust ethane-trapping metal-organic framework for efficient purification of ethylene. <i>Science China Chemistry</i> , <b>2021</b> , 64, 666-672	7.9	4
28	Gas Separation: A Single-Molecule Propyne Trap: Highly Efficient Removal of Propyne from Propylene with Anion-Pillared Ultramicroporous Materials (Adv. Mater. 10/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870068	24	3
27	Gas Purification: Ultrahigh and Selective SO <sub>2</sub> Uptake in Inorganic Anion-Pillared Hybrid Porous Materials (Adv. Mater. 28/2017). <i>Advanced Materials</i> , <b>2017</b> , 29,	24	3
26	Determination and correlation of the solubility of L-arabinose and D-galactose in binary solvent mixtures from 278.15 to 333.15 K. <i>Korean Journal of Chemical Engineering</i> , <b>2018</b> , 35, 2043-2051	2.8	3
25	Carbon dioxide capture in gallate-based metal-organic frameworks. <i>Separation and Purification Technology</i> , <b>2022</b> , 292, 121031	8.3	3
24	Highly efficient separation of strongly hydrophilic structurally related compounds by hydrophobic ionic solutions. <i>AIChE Journal</i> , <b>2018</b> , 64, 1373-1382	3.6	2
23	Effect of Nitrogen/Oxygen Substances on the Pyrolysis of Alkane-Rich Gases to Acetylene by Thermal Plasma. <i>Energies</i> , <b>2018</b> , 11, 351	3.1	2
22	Shell-like Xenon Nano-Traps within Angular Anion-Pillared Layered Porous Materials for Boosting Xe/Kr Separation. <i>Angewandte Chemie</i> ,	3.6	2
21	Crystal Structure Transformation in Hydrogen-bonded Organic Frameworks via Ion Exchange. <i>Chemistry - an Asian Journal</i> , <b>2021</b> , 16, 3978-3984	4.5	2
20	Aqueous Biphasic Systems Containing Customizable Poly(Ionic Liquid)s for Highly Efficient Extractions. <i>ChemSusChem</i> , <b>2020</b> , 13, 1906-1914	8.3	2
19	Porous Hydrogen-Bonded Frameworks Assembled from Metal-Nucleobase Entities for Xe/Kr Separation. <i>CCS Chemistry</i> , 1028-1035	7.2	2
18	A pore-engineered metal-organic framework with mixed ligands enabling highly efficient separation of hexane isomers for gasoline upgrading. <i>Separation and Purification Technology</i> , <b>2021</b> , 268, 118646	8.3	2
17	A strongly hydrophobic ethane-selective metal-organic framework for efficient ethane/ethylene separation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 442, 136152	14.7	2
16	Separation of perfluorinated electron specialty gases on microporous carbon adsorbents with record selectivity. <i>Separation and Purification Technology</i> , <b>2022</b> , 292, 121059	8.3	2
15	Adsorption behavior of tocopheryl succinate and tocopheryl polyethylene glycol succinate onto weakly basic anion exchange resins. <i>Korean Journal of Chemical Engineering</i> , <b>2015</b> , 32, 511-520	2.8	1

14	Microgeometry-independent equation for measuring infinite dilution activity coefficients using gas-liquid chromatography with static-wall-coated open-tubular columns. <i>Journal of Chromatography A</i> , <b>2020</b> , 1624, 461264	4.5	1
13	Amphiphilic Super-Wetting Ionic-Liquid-Based Lower Critical Solution Temperature System: Preparation, Characterization, and Excellent Dispersion Performance for Nanostructured Materials. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 3253-3260	8.3	1
12	Adsorption separation of raffinose from sucrose by activated carbon: Equilibrium, kinetics and dynamic breakthrough. <i>Separation Science and Technology</i> , <b>2016</b> , 51, 1636-1644	2.5	1
11	Hydrogen-Bonded Metal-Nucleobase Frameworks for Efficient Separation of Xenon and Krypton.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	1
10	Heterogeneous synthesis of tetrahydroquinoline derivatives via cascade Povarov reaction catalyzed by sulfonic acid functionalized metal-organic frameworks. <i>Nano Select</i> , <b>2021</b> , 2, 1968	3.1	1
9	CO <sub>2</sub> -Assisted Back-Extraction Method for Ionic Liquid Biphasic Systems. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 4403-4410	8.3	1
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