Lin-Bing Sun

List of Publications by Year
in descending order

194 papers	10,807 citations	31902 53 h-index	35952 97 g-index
197 all docs	197 docs citations	197 times ranked	10210 citing authors

#	Article	IF	Citations
1	Metalâ€“Organic Frameworks for Heterogeneous Basic Catalysis. Chemical Reviews, 2017, 117, 8129-8176.	23.0	1,230
2	Porous materials with pre-designed single-molecule traps for CO2 selective adsorption. Nature Communications, 2013, 4, 1538.	5.8	508
3	Cooperative Template-Directed Assembly of Mesoporous Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2012, 134, 126-129.	6.6	330
4	Design and fabrication of mesoporous heterogeneous basic catalysts. Chemical Society Reviews, 2015, 44, 5092-5147.	18.7	323
5	Efficient CO₂ Capturer Derived from Asâ€Synthesized MCMâ€41 Modified with Amine. Chemistry - A European Journal, 2008, 14, 3442-3451.	1.7	293
6	Rational synthesis of an exceptionally stable Zn(<scp>ii</scp>) metalâ€“organic framework for the highly selective and sensitive detection of picric acid. Chemical Communications, 2016, 52, 5734-5737.	2.2	253
7	A versatile metalâ€“organic framework for carbon dioxide capture and cooperative catalysis. Chemical Communications, 2012, 48, 9995.	2.2	242
8	Promoting the CO2 adsorption in the amine-containing SBA-15 by hydroxyl group. Microporous and Mesoporous Materials, 2008, 114, 74-81.	2.2	226
9	Introduction of Functionalized Mesopores to Metalâ€“Organic Frameworks via Metalâ€“Ligandâ€“Fragment Coassembly. Journal of the American Chemical Society, 2012, 134, 20110-20116.	6.6	215
10	Azobenzeneâ€Functionalized Metalâ€“Organic Polyhedra for the Optically Responsive Capture and Release of Guest Molecules. Angewandte Chemie - International Edition, 2014, 53, 5842-5846.	7.2	203
11	Highly Selective Capture of the Greenhouse Gas CO₂ in Polymers. ACS Sustainable Chemistry and Engineering, 2015, 3, 3077-3085.	3.2	168
12	Fabrication of magnetically responsive HKUST-1/Fe3O4 composites by dry gel conversion for deep desulfurization and denitrogenation. Journal of Hazardous Materials, 2017, 321, 344-352.	6.5	165
13	Metalâ€“Organic Frameworks with Targetâ€Specific Active Sites Switched by Photoresponsive Motifs: Efficient Adsorbents for Tailorable CO₂ Capture. Angewandte Chemie - International Edition, 2019, 58, 6600-6604.	7.2	161
14	Design and fabrication of nanoporous adsorbents for the removal of aromatic sulfur compounds. Journal of Materials Chemistry A, 2018, 6, 23978-24012.	5.2	147
15	Confinement of Metalâ€“Organic Polyhedra in Silica Nanopores. Journal of the American Chemical Society, 2012, 134, 15923-15928.	6.6	128
16	Adsorption separation of carbon dioxide, methane and nitrogen on monoethanol amine modified Î²-zeolite. Journal of Natural Gas Chemistry, 2009, 18, 167-172.	1.8	115
17	Adsorption separation of carbon dioxide, methane, and nitrogen on HÎ² and Na-exchanged Î²-zeolite. Journal of Natural Gas Chemistry, 2008, 17, 391-396.	1.8	114
18	Fabrication of Isolated Metalâ€“Organic Polyhedra in Confined Cavities: Adsorbents/Catalysts with Unusual Dispersity and Activity. Journal of the American Chemical Society, 2016, 138, 6099-6102.	6.6	113

#	Article	IF	Citations
19	Adsorptive Desulfurization by Copper Species within Confined Space. Langmuir, 2010, 26, 17398-17404.	1.6	111
20	Enhancing oxidation resistance of Cu(I) by tailoring microenvironment in zeolites for efficient adsorptive desulfurization. Nature Communications, 2020, 11, 3206.	5.8	105
21	Fabrication of Supported Cuprous Sites at Low Temperatures: An Efficient, Controllable Strategy Using Vapor-Induced Reduction. Journal of the American Chemical Society, 2013, 135, 8137-8140.	6.6	104
22	Generation of Hierarchical Porosity in Metalâ€“Organic Frameworks by the Modulation of Cation Valence. Angewandte Chemie - International Edition, 2019, 58, 10104-10109.	7.2	104
23	Fabrication of nitrogen-doped porous carbons for highly efficient CO₂ capture: rational choice of a polymer precursor. Journal of Materials Chemistry A, 2016, 4, 17299-17307.	5.2	102
24	Improving Hydrothermal Stability and Catalytic Activity of Metalâ€“Organic Frameworks by Graphite Oxide Incorporation. Journal of Physical Chemistry C, 2014, 118, 19910-19917.	1.5	100
25	Facile fabrication of cost-effective porous polymer networks for highly selective CO₂capture. Journal of Materials Chemistry A, 2015, 3, 3252-3256.	5.2	96
26	Fabrication of microporous polymers for selective CO₂ capture: the significant role of crosslinking and crosslinker length. Journal of Materials Chemistry A, 2017, 5, 23310-23318.	5.2	93
27	Oneâ€Pot Synthesis of Potassiumâ€Functionalized Mesoporous Î³â€Alumina: A Solid Superbase. Angewandte Chemie - International Edition, 2008, 47, 3418-3421.	7.2	91
28	Constructing a confined space in silica nanopores: an ideal platform for the formation and dispersion of cuprous sites. Journal of Materials Chemistry A, 2014, 2, 3399.	5.2	91
29	What Matters to the Adsorptive Desulfurization Performance of Metal-Organic Frameworks?. Journal of Physical Chemistry C, 2015, 119, 21969-21977.	1.5	91
30	Metalâ€“Organic Frameworkâ€Templated Catalyst: Synergy in Multiple Sites for Catalytic CO₂ Fixation. ChemSusChem, 2017, 10, 1898-1903.	3.6	91
31	Dispersion of copper species in a confined space and their application in thiophene capture. Journal of Materials Chemistry, 2012, 22, 18514.	6.7	90
32	Enhanced Hydrothermal Stability and Catalytic Performance of HKUST-1 by Incorporating Carboxyl-Functionalized Attapulgite. ACS Applied Materials & Interfaces, 2016, 8, 16457-16464.	4.0	89
33	Fabrication of magnetically responsive coreâ€“shell adsorbents for thiophene capture: AgNO3-functionalized Fe3O4@mesoporous SiO2 microspheres. Journal of Materials Chemistry A, 2014, 2, 4698.	5.2	86
34	Functionalization of metalâ€“organic frameworks with cuprous sites using vapor-induced selective reduction: efficient adsorbents for deep desulfurization. Green Chemistry, 2016, 18, 3210-3215.	4.6	82
35	Enhanced CO2/CH4 separation performance of mixed-matrix membranes through dispersion of sorption-selective MOF nanocrystals. Journal of Membrane Science, 2018, 563, 360-370.	4.1	82
36	Cuâˆ’Ce Bimetal Ion-Exchanged Y Zeolites for Selective Adsorption of Thiophenic Sulfur. Energy & Fuels, 2008, 22, 3955-3959.	2.5	81

#	Article	IF	Citations
37	New Attempt at Directly Generating Superbasicity on Mesoporous Silica SBA-15. Inorganic Chemistry, 2008, 47, 4199-4208.	1.9	79
38	Generating Superbasic Sites on Mesoporous Silica SBA-15. Chemistry of Materials, 2006, 18, 4600-4608.	3.2	78
39	Nitrogen-Doped Porous Carbons Derived from Carbonization of a Nitrogen-Containing Polymer: Efficient Adsorbents for Selective CO2 Capture. Industrial & Engineering Chemistry Research, 2016, 55, 10916-10925.	1.8	77
40	Enhancing the hydrostability and catalytic performance of metalâ€“organic frameworks by hybridizing with attapulgite, a natural clay. Journal of Materials Chemistry A, 2015, 3, 6998-7005.	5.2	75
41	Unusual ceria dispersion formed in confined space: a stable and reusable adsorbent for aromatic sulfur capture. Chemical Communications, 2012, 48, 9495.	2.2	72
42	Fabrication of porous carbons from mesitylene for highly efficient CO2 capture: A rational choice improving the carbon loop. Chemical Engineering Journal, 2019, 361, 945-952.	6.6	72
43	N-doped porous carbons derived from a polymer precursor with a record-high N content: Efficient adsorbents for CO2 capture. Chemical Engineering Journal, 2019, 372, 656-664.	6.6	71
44	Maximizing Photoresponsive Efficiency by Isolating Metalâ€“Organic Polyhedra into Confined Nanoscaled Spaces. Journal of the American Chemical Society, 2019, 141, 8221-8227.	6.6	71
45	Directly transforming as-synthesized MCM-41 to mesoporous MFI zeolite. Journal of Materials Chemistry, 2008, 18, 2044.	6.7	68
46	Molecular Template-Directed Synthesis of Microporous Polymer Networks for Highly Selective CO₂ Capture. ACS Applied Materials & Interfaces, 2014, 6, 20340-20349.	4.0	66
47	Hierarchical Nâ€doped carbons from designed Nâ€rich polymer: Adsorbents with a recordâ€high capacity for desulfurization. AIChE Journal, 2018, 64, 3786-3793.	1.8	64
48	Multiple Functionalization of Mesoporous Silica in Oneâ€Pot: Direct Synthesis of Aluminumâ€Containing Plugged SBAâ€15 from Aqueous Nitrate Solutions. Advanced Functional Materials, 2008, 18, 82-94.	7.8	63
49	Underlying mechanism of CO₂ adsorption onto conjugated azacyclo-copolymers: N-doped adsorbents capture CO₂ chiefly through acidâ€“base interaction?. Journal of Materials Chemistry A, 2019, 7, 17842-17853.	5.2	63
50	MXene Quantum Dot/Polymer Hybrid Structures with Tunable Electrical Conductance and Resistive Switching for Nonvolatile Memory Devices. Advanced Electronic Materials, 2020, 6, 1900493.	2.6	63
51	Low-Temperature Fabrication of Mesoporous Solid Strong Bases by Using Multifunction of a Carbon Interlayer. ACS Applied Materials & Interfaces, 2013, 5, 9823-9829.	4.0	58
52	Fabrication of Metalâ€“Organic Frameworks inside Silica Nanopores with Significantly Enhanced Hydrostability and Catalytic Activity. ACS Applied Materials & Interfaces, 2018, 10, 12051-12059.	4.0	57
53	Adsorptive Removal of Thiophene by Cu-Modified Mesoporous Silica MCM-48 Derived from Direct Synthesis. Energy & Fuels, 2011, 25, 3093-3099.	2.5	56
54	Nâ€doped porous carbons for CO₂ capture: Rational choice of Nâ€containing polymer with high phenyl density as precursor. AIChE Journal, 2017, 63, 1648-1658.	1.8	56

#	Article	IF	Citations
55	Direct Synthesis of Zeolites from a Natural Clay, Attapulgite. ACS Sustainable Chemistry and Engineering, 2017, 5, 6124-6130.	3.2	55
56	Fabrication of N-doped porous carbons for enhanced CO2 capture: Rational design of an ammoniated polymer precursor. Chemical Engineering Journal, 2019, 369, 170-179.	6.6	54
57	Adjusting Host Properties to Promote Cuprous Chloride Dispersion and Adsorptive Desulfurization Sites Formation on SBA-15. Energy & Fuels, 2011, 25, 3506-3513.	2.5	52
58	Photopolymerization of metalâ€“organic polyhedra: an efficient approach to improve the hydrostability, dispersity, and processability. Chemical Communications, 2019, 55, 6177-6180.	2.2	52
59	Magnetically Responsive Coreâ€“Shell Fe₃O₄@C Adsorbents for Efficient Capture of Aromatic Sulfur and Nitrogen Compounds. ACS Sustainable Chemistry and Engineering, 2016, 4, 2223-2231.	3.2	51
60	Controlled Construction of Cu(I) Sites within Confined Spaces via Hostâ€“Guest Redox: Highly Efficient Adsorbents for Selective CO Adsorption. ACS Applied Materials & Interfaces, 2018, 10, 40044-40053.	4.0	51
61	Controllable Adsorption of CO₂ on Smart Adsorbents: An Interplay between Amines and Photoresponsive Molecules. Chemistry of Materials, 2018, 30, 3429-3437.	3.2	49
62	Synthesizing nanocrystal-assembled mesoporous magnesium oxide using cotton fibres as exotemplate. Microporous and Mesoporous Materials, 2008, 111, 314-322.	2.2	47
63	Attempt to Generate Strong Basicity on Silica and Titania. Journal of Physical Chemistry C, 2008, 112, 4978-4985.	1.5	47
64	Magnesia-Incorporated Mesoporous Alumina with Crystalline Frameworks: A Solid Strong Base Derived from Direct Synthesis. Journal of Physical Chemistry C, 2009, 113, 19172-19178.	1.5	47
65	Smart Adsorbents with Photoregulated Molecular Gates for Both Selective Adsorption and Efficient Regeneration. ACS Applied Materials & Interfaces, 2016, 8, 23404-23411.	4.0	47
66	Low-temperature generation of strong basicity via an unprecedented guestâ€“host redox interaction. Chemical Communications, 2013, 49, 8087.	2.2	46
67	Isolated Cu(<scp>i</scp>) sites supported on Î²-cyclodextrin: an efficient Ï€-complexation adsorbent for thiophene capture. Chemical Communications, 2011, 47, 650-652.	2.2	45
68	A Highly Active Ni/ZSMâ€5 Catalyst for Complete Hydrogenation of Polymethylbenzenes. ChemCatChem, 2013, 5, 3543-3547.	1.8	45
69	Rigid supramolecular structures based on flexible covalent bonds: A fabrication mechanism of porous organic polymers and their CO2 capture properties. Chemical Engineering Journal, 2020, 385, 123978.	6.6	45
70	Constructing mesoporous solid superbases by a dualcoating strategy. Journal of Materials Chemistry A, 2013, 1, 1623-1631.	5.2	44
71	Modulating the Host Nature by Coating Alumina: A Strategy to Promote Potassium Nitrate Decomposition and Superbasicity Generation on Mesoporous Silica SBA-15. Journal of Physical Chemistry C, 2010, 114, 18988-18995.	1.5	43
72	Incorporation of Cu(<scp>ii</scp>) and its selective reduction to Cu(<scp>i</scp>) within confined spaces: efficient active sites for CO adsorption. Journal of Materials Chemistry A, 2018, 6, 8930-8939.	5.2	42

#	ARTICLE	IF	CITATIONS
73	Solvent-free synthesis of N-containing polymers with high cross-linking degree to generate N-doped porous carbons for high-efficiency CO2 capture. Chemical Engineering Journal, 2020, 399, 125845.	6.6	42
74	Fabrication of Microporous Metalâ€“Organic Frameworks in Uninterrupted Mesoporous Tunnels: Hierarchical Structure for Efficient Trypsin Immobilization and Stabilization. Angewandte Chemie - International Edition, 2020, 59, 6428-6434.	7.2	41
75	Low-temperature fabrication of Cu(<scp>i</scp>) sites in zeolites by using a vapor-induced reduction strategy. Journal of Materials Chemistry A, 2015, 3, 12247-12251.	5.2	40
76	Coreâ€“Shell AgCl@SiO₂ Nanoparticles: Ag(I)-Based Antibacterial Materials with Enhanced Stability. ACS Sustainable Chemistry and Engineering, 2016, 4, 3268-3275.	3.2	40
77	Controlled Construction of Supported Cu⁺ Sites and Their Stabilization in MIL-100(Fe): Efficient Adsorbents for Benzothiophene Capture. ACS Applied Materials & Interfaces, 2017, 9, 29445-29450.	4.0	40
78	A tandem demetalizationâ€“desilication strategy to enhance the porosity of attapulgite for adsorption and catalysis. Chemical Engineering Science, 2016, 141, 184-194.	1.9	39
79	Size Regulation of Platinum Nanoparticles by Using Confined Spaces for the Low-Temperature Oxidation of Ethylene. Inorganic Chemistry, 2018, 57, 1645-1650.	1.9	37
80	Fabrication of gold nanoparticles in confined spaces using solid-phase reduction: Significant enhancement of dispersion degree and catalytic activity. Chemical Engineering Science, 2017, 158, 216-226.	1.9	36
81	Endowing Cu-BTC with Improved Hydrothermal Stability and Catalytic Activity: Hybridization with Natural Clay Attapulgite via Vapor-Induced Crystallization. ACS Sustainable Chemistry and Engineering, 2018, 6, 13217-13225.	3.2	35
82	Fabrication of highly dispersed nickel in nanoconfined spaces of as-made SBA-15 for dry reforming of methane with carbon dioxide. Chemical Engineering Journal, 2020, 390, 124491.	6.6	35
83	Catalytic performance of porous carbons obtained by chemical activation. Carbon, 2008, 46, 1757-1764.	5.4	34
84	In situ generation of superbasic sites on mesoporous ceria and their application in transesterification. Journal of Molecular Catalysis A, 2012, 352, 38-44.	4.8	34
85	Rational Fabrication of Polyethylenimine-Linked Microbeads for Selective CO₂ Capture. Industrial & Engineering Chemistry Research, 2018, 57, 250-258.	1.8	34
86	Adsorption Behavior of Carbon Dioxide and Methane on AlPO₄-14: A Neutral Molecular Sieve. Energy & Fuels, 2009, 23, 1534-1538.	2.5	33
87	Exploring in Situ Functionalization Strategy in a Hard Template Process: Preparation of Sodium-Modified Mesoporous Tetragonal Zirconia with Superbasicity. Journal of Physical Chemistry C, 2011, 115, 11633-11640.	1.5	33
88	A new redox strategy for low-temperature formation of strong basicity on mesoporous silica. Chemical Communications, 2015, 51, 10058-10061.	2.2	31
89	Selective adsorption and efficient regeneration via smart adsorbents possessing thermo-controlled molecular switches. Physical Chemistry Chemical Physics, 2016, 18, 9883-9887.	1.3	31
90	Activated Carbon-Catalyzed Hydrogenation of Polycyclic Arenes. Energy & Fuels, 2004, 18, 1500-1504.	2.5	30

#	Article	IF	Citations
91	Isolated lithium sites supported on mesoporous silica: a novel solid strong base with high catalytic activity. Chemical Communications, 2012, 48, 6423.	2.2	30
92	Direct Fabrication of Strong Basic Sites on Ordered Nanoporous Materials: Exploring the Possibility of Metalâ€“Organic Frameworks. Chemistry of Materials, 2018, 30, 1686-1694.	3.2	30
93	Identification of Organic Chlorines and Iodines in the Extracts from Hydrotreated Argonne Premium Coal Residues. Energy & Fuels, 2007, 21, 2238-2239.	2.5	28
94	Facile Synthesis of Ti₃C₂T_{<i>x</i>}â€“Poly(vinylpyrrolidone) Nanocomposites for Nonvolatile Memory Devices with Low Switching Voltage. ACS Applied Materials & Interfaces, 2019, 11, 38061-38067.	4.0	28
95	Breathing Metalâ€“Organic Polyhedra Controlled by Light for Carbon Dioxide Capture and Liberation. CCS Chemistry, 2021, 3, 1659-1668.	4.6	28
96	Causation of catalytic activity of Cu-ZnO for CO2 hydrogenation to methanol. Chemical Engineering Journal, 2022, 430, 132784.	6.6	27
97	Synergic Effect of Sulfur on Activated Carbon-Catalyzed Hydrocracking of Di(1-naphthyl)methane. Energy & Fuels, 2003, 17, 60-61.	2.5	26
98	Highly Dispersive Cobalt Oxide Constructed in Confined Space for Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 2837-2843.	3.2	26
99	Generating Basic Sites on Zeolite Y by Potassium Species Modification: Effect of Base Precursor. Catalysis Letters, 2009, 132, 218-224.	1.4	25
100	The cascade catalysis of the porphyrinic zirconium metalâ€“organic framework PCN-224-Cu for CO₂ conversion to alcohols. Journal of Materials Chemistry A, 2021, 9, 24510-24516.	5.2	25
101	Process-Oriented Smart Adsorbents: Tailoring the Properties Dynamically as Demanded by Adsorption/Desorption. Accounts of Chemical Research, 2022, 55, 75-86.	7.6	25
102	Selective Hydrogen Transfer to Anthracene and Its Derivatives over an Activated Carbon. Energy & Fuels, 2009, 23, 4877-4882.	2.5	24
103	Template-derived carbon: an unexpected promoter for the creation of strong basicity on mesoporous silica. Chemical Communications, 2014, 50, 11192.	2.2	24
104	Smart adsorbents with reversible photo-regulated molecular switches for selective adsorption and efficient regeneration. Chemical Communications, 2016, 52, 11531-11534.	2.2	24
105	Rational design of thermo-responsive adsorbents: demand-oriented active sites for the adsorption of dyes. Chemical Communications, 2017, 53, 9538-9541.	2.2	24
106	Fabrication of nitrogen-doped porous carbons derived from ammoniated copolymer precursor: Record-high adsorption capacity for indole. Chemical Engineering Journal, 2019, 374, 1005-1012.	6.6	24
107	Ordered Mesoporous Carbon CMK-3 Modified with Cu(I) for Selective Ethylene/Ethane Adsorption. Separation Science and Technology, 2013, 48, 968-976.	1.3	23
108	Controllable fabrication of cuprous sites in confined spaces for efficient adsorptive desulfurization. Fuel, 2020, 259, 116221.	3.4	23

#	Article	IF	Citations
109	Activated Carbon-Catalyzed Hydrogen Transfer to Î±,Ï‰-Diarylalkanes. Energy & Fuels, 2005, 19, 1-6.	2.5	22
110	Thermal Release and Catalytic Removal of Organic Sulfur Compounds from Upper Freeport Coal. Energy & Fuels, 2005, 19, 339-342.	2.5	21
111	Fabrication of solid strong bases with a molecular-level dispersion of lithium sites and high basic catalytic activity. Chemical Communications, 2014, 50, 11299-11302.	2.2	21
112	Fabrication of Adsorbents with Thermocontrolled Molecular Gates for Both Selective Adsorption and Efficient Regeneration. Advanced Materials Interfaces, 2016, 3, 1500829.	1.9	21
113	Petal cell-derived MnO nanoparticle-incorporated biocarbon composite and its enhanced lithium storage performance. Journal of Materials Science, 2020, 55, 2139-2154.	1.7	21
114	A new strategy to generate strong basic sites on neutral salt KNO3 modified NaY. Materials Letters, 2007, 61, 2130-2134.	1.3	20
115	Release of Organonitrogen and Organosulfur Compounds during Hydrotreatment of Pocahontas No. 3 Coal Residue over an Activated Carbon. Energy & Fuels, 2009, 23, 5284-5286.	2.5	20
116	Development of Adsorbents for Selective Carbon Capture: Role of Homo- and Cross-Coupling in Conjugated Microporous Polymers and Their Carbonized Derivatives. ACS Sustainable Chemistry and Engineering, 2018, 6, 17419-17426.	3.2	20
117	Fabrication of Cu+ sites in confined spaces for adsorptive desulfurization by series connection double-solvent strategy. Green Energy and Environment, 2022, 7, 345-351.	4.7	20
118	Adjusting the hostâ€“guest interaction to promote KNO3 decomposition and strong basicity generation on zeolite NaY. Microporous and Mesoporous Materials, 2008, 116, 498-503.	2.2	19
119	Realizing both selective adsorption and efficient regeneration using adsorbents with photo-regulated molecular gates. Chemical Communications, 2016, 52, 4006-4009.	2.2	19
120	Smart Adsorbents Functionalized with Thermoresponsive Polymers for Selective Adsorption and Energy-Saving Regeneration. Industrial & Engineering Chemistry Research, 2017, 56, 4341-4349.	1.8	19
121	Rational Design and Fabrication of Nitrogen-Enriched and Hierarchical Porous Polymers Targeted for Selective Carbon Capture. Industrial & Engineering Chemistry Research, 2018, 57, 12926-12934.	1.8	19
122	Foaming Effect of a Polymer Precursor with a Low N Content on Fabrication of N-Doped Porous Carbons for CO₂ Capture. Industrial & Engineering Chemistry Research, 2019, 58, 11013-11021.	1.8	19
123	Controllable construction of metalâ€“organic polyhedra in confined cavities via in situ site-induced assembly. Journal of Materials Chemistry A, 2017, 5, 5278-5282.	5.2	18
124	Fabrication of Rhodium Nanoparticles with Reduced Sizes: An Exploration of Confined Spaces. Industrial & Engineering Chemistry Research, 2018, 57, 3561-3566.	1.8	18
125	Making Porous Materials Respond to Visible Light. ACS Energy Letters, 2019, 4, 2656-2667.	8.8	18
126	Controllable CO₂ Capture in Metalâ€“Organic Frameworks: Making Targeted Active Sites Respond to Light. Industrial & Engineering Chemistry Research, 2020, 59, 21894-21900.	1.8	18

#	Article	IF	Citations
127	Coreâ€“Sheath Structured MoO₃@MoS₂ Composite for High-Performance Lithium-Ion Battery Anodes. Energy & Fuels, 2020, 34, 11498-11507.	2.5	18
128	Calcium oxide-modified mesoporous silica loaded onto ferriferrous oxide core: Magnetically responsive mesoporous solid strong base. Journal of Colloid and Interface Science, 2018, 526, 366-373.	5.0	17
129	Metalâ€“Organic Frameworks with Targetâ€Specific Active Sites Switched by Photoresponsive Motifs: Efficient Adsorbents for Tailorable CO₂ Capture. Angewandte Chemie, 2019, 131, 6672-6676.	1.6	17
130	Hybridization with Ti₃C₂T<i>_x</i> MXene: An Effective Approach to Boost the Hydrothermal Stability and Catalytic Performance of Metalâ€“Organic Frameworks. Inorganic Chemistry, 2021, 60, 1380-1387.	1.9	17
131	Adjusting accommodation microenvironment for Cu⁺ to enhance oxidation inhibition for thiophene capture. AIChE Journal, 2021, 67, e17368.	1.8	17
132	Near-infrared light triggered release of ethane from a photothermal metal-organic framework. Chemical Engineering Journal, 2021, 420, 130490.	6.6	17
133	Exfoliation-induced O-doped g-C₃N₄ nanosheets with improved photoreactivity towards RhB degradation and H₂ evolution. Inorganic Chemistry Frontiers, 2022, 9, 1423-1433.	3.0	17
134	Catalytic Performance of Supported KNO3 Solid Bases for Methylation of Cyclopentadiene. Chinese Journal of Catalysis, 2006, 27, 725-731.	6.9	16
135	Simultaneous fabrication of bifunctional Cu(<scp>i</scp>)/Ce(<scp>iv</scp>) sites in silica nanopores using a guests-redox strategy. RSC Advances, 2016, 6, 70446-70451.	1.7	16
136	Fabrication of Photothermal Silver Nanocube/ZIF-8 Composites for Visible-Light-Regulated Release of Propylene. ACS Applied Materials & Interfaces, 2019, 11, 29298-29304.	4.0	16
137	Tailoring microenvironment of adsorbents to achieve excellent <scp>CO₂</scp> uptakes from wet gases. AIChE Journal, 2020, 66, e16645.	1.8	16
138	Stabilizing CuI in MIL-101(Cr) by introducing long-chain alkane for adsorptive desulfurization. Separation and Purification Technology, 2022, 290, 120892.	3.9	16
139	Magnetically responsive porous materials for efficient adsorption and desorption processes. Chinese Journal of Chemical Engineering, 2019, 27, 1324-1338.	1.7	15
140	Porous Mn₂O₃/<i>p</i>SiO₂ Nanocomposites on Bio-scaffolds for Tetracycline Degradation. ACS Applied Nano Materials, 2022, 5, 9117-9128.	2.4	15
141	Methylation of cyclopentadiene on solid base catalysts with different surface acidâ€“base properties. Journal of Catalysis, 2010, 275, 257-269.	3.1	14
142	Potassium-incorporated mesoporous carbons: strong solid bases with enhanced catalytic activity and stability. Catalysis Science and Technology, 2018, 8, 2794-2801.	2.1	14
143	Ce-Doped Smart Adsorbents with Photoresponsive Molecular Switches for Selective Adsorption and Efficient Desorption. Engineering, 2020, 6, 569-576.	3.2	14
144	Smart adsorbents for CO2 capture: Making strong adsorption sites respond to visible light. Science China Materials, 2021, 64, 383-392.	3.5	14

#	Article	IF	Citations
145	Se/S enhanced room-temperature phosphorescence of organic polymers. Dyes and Pigments, 2021, 195, 109663.	2.0	14
146	Preparation of Mesoporous Solid Superbases by Using Metal Oxide Interlayers. Current Organic Chemistry, 2014, 18, 1296-1304.	0.9	14
147	Identification of Sulfur- and Nitrogen-containing Organic Species in the Extracts from Pocahontas No. 3 Coal. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2010, 32, 1086-1099.	1.2	13
148	Facile Fabrication of AgCl Nanoparticles and Their Application in Adsorptive Desulfurization. Journal of Nanoscience and Nanotechnology, 2015, 15, 4373-4379.	0.9	13
149	Enhancing the hydrostability and processability of metalâ€"organic polyhedra by self-polymerization or copolymerization with styrene. Dalton Transactions, 2019, 48, 17153-17157.	1.6	13
150	Generation of Hierarchical Porosity in Metalâ€"Organic Frameworks by the Modulation of Cation Valence. Angewandte Chemie, 2019, 131, 10210-10215.	1.6	12
151	Stepâ€Up Synthesis of Periodic Mesoporous Organosilicas with a Tyrosine Framework and Performance in Horseradish Peroxidase Immobilization. Chemistry - an Asian Journal, 2017, 12, 3162-3171.	1.7	10
152	Light-responsive adsorbents with tunable adsorbentâ€"adsorbate interactions for selective CO2 capture. Chinese Journal of Chemical Engineering, 2022, 42, 104-111.	1.7	10
153	Homogenous Dual-Ligand Zinc Complex Catalysts for Chemical Fixation of CO2 to Propylene Carbonate. Catalysis Letters, 2015, 145, 1673-1682.	1.4	9
154	Fabrication of Cu(I)-Functionalized MIL-101(Cr) for Adsorptive Desulfurization: Low-Temperature Controllable Conversion of Cu(II) via Vapor-Induced Reduction. Inorganic Chemistry, 2019, 58, 11085-11090.	1.9	9
155	N-doped porous carbons with increased yield and hierarchical pore structures for supercapacitors derived from an N-containing phenyl-riched copolymer. Journal of Industrial and Engineering Chemistry, 2019, 80, 568-575.	2.9	9
156	Significant Decrease in Activation Temperature for the Generation of Strong Basicity: A Strategy of Endowing Supports with Reducibility. Inorganic Chemistry, 2019, 58, 8003-8011.	1.9	9
157	Selective adsorption of ethane over ethylene through a metalâ€"organic framework bearing dense alkyl groups. Separation and Purification Technology, 2022, 295, 121330.	3.9	9
158	Generalized syntheses of mesoporous Î³-Al2O3 functionalized with metal oxides by a one-pot, two-step strategy. Journal of Porous Materials, 2012, 19, 969-977.	1.3	8
159	The Dehydration and Demulsification of Waste Oil by Ultrasound. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2014, 36, 1843-1849.	1.2	8
160	Facile Synthesis of Co3O4 Nanoparticle-Functionalized Mesoporous SiO2 for Catalytic Degradation of Methylene Blue from Aqueous Solutions. Catalysts, 2019, 9, 809.	1.6	8
161	Facile Fabrication of Small-Sized Palladium Nanoparticles in Nanoconfined Spaces for Low-Temperature CO Oxidation. Industrial & Engineering Chemistry Research, 2020, 59, 19145-19152.	1.8	8
162	An antiempirical strategy: sacrificing aromatic moieties in the polymer precursor for improving the properties of the derived N-doped porous carbons. Green Chemical Engineering, 2020, 1, 70-76.	3.3	8

#	Article	IF	Citations
163	Investigation on the Preparation of Rice Straw-Derived Cellulose Acetate and Its Spinnability for Electrospinning. Polymers, 2021, 13, 3463.	2.0	8
164	Fabrication of multifunctional integrated catalysts by decorating confined Ag nanoparticles on magnetic nanostirring bars. Journal of Colloid and Interface Science, 2019, 555, 315-322.	5.0	7
165	Smart Light-responsive CO₂ Adsorbents for Regulating Strong Active Sites. Acta Chimica Sinica, 2020, 78, 1082.	0.5	7
166	Construction of a superhydrophobic microenvironment<i>via</i>polystyrene coating: an unexpected way to stabilize Cu^Iagainst oxidation. Inorganic Chemistry Frontiers, 2021, 8, 5169-5177.	3.0	7
167	Rational fabrication of ordered porous solid strong bases by utilizing the inherent reducibility of metal-organic frameworks. Nano Research, 2022, 15, 2905-2912.	5.8	7
168	Modulating the Activity of Enzyme in Metalâ€“Organic Frameworks Using the Photothermal Effect of Ti₃C₂ Nanosheets. ACS Applied Materials & Interfaces, 2022, 14, 30090-30098.	4.0	7
169	Editorial (Thematic Issue: Innovative Nanoporous Materials for Heterogeneous Catalysis). Current Organic Chemistry, 2014, 18, 1225-1225.	0.9	6
170	Architecture of novel periodic mesoporous organosilicas based on the flexible skeleton of aspartic acid-bridged organosilane. Materials Letters, 2017, 193, 299-304.	1.3	6
171	Fabrication of solid strong bases at decreased temperature by doping low-valence Cr3+ into supports. Applied Catalysis A: General, 2019, 584, 117153.	2.2	6
172	Generation of Strong Basicity in Metalâ€“Organic Frameworks: How Do Coordination Solvents Matter?. ACS Applied Materials & Interfaces, 2022, 14, 8058-8065.	4.0	6
173	Solitary Medium of a Multifunctional Ionic Liquid for Crystallizing Hierarchically Porous Metalâ€“Organic Frameworks. Inorganic Chemistry, 2022, 61, 10393-10401.	1.9	6
174	Fabrication of Microporous Metalâ€“Organic Frameworks in Uninterrupted Mesoporous Tunnels: Hierarchical Structure for Efficient Trypsin Immobilization and Stabilization. Angewandte Chemie, 2020, 132, 6490-6496.	1.6	5
175	Low-temperature conversion of base precursor KNO3 on coreâ€“shell structured Fe3O4@C: Fabrication of magnetically responsive solid strong bases. Catalysis Today, 2021, 374, 200-207.	2.2	5
176	Controllable Microporous Framework Isomerism within Continuous Mesoporous Channels: Hierarchically Porous Structure for Capture of Bulky Molecules. Inorganic Chemistry, 2021, 60, 6633-6640.	1.9	5
177	A Water Resistant Solid Superbase Derived from Calcium: Synthesis, Characterization and Catalytic Performance. Current Organic Chemistry, 2013, 17, 2249-2255.	0.9	5
178	Fabrication of azobenzene-functionalized porous polymers for selective CO2 capture. Chinese Journal of Chemical Engineering, 2022, 43, 24-30.	1.7	5
179	Implementing An â€œImpracticableâ€•Copolymerization to Fabricate A Desired Polymer Precursor for N-doped Porous Carbons. Engineering, 2022, , .	3.2	5
180	Fabrication of adsorbents with enhanced CuI stability: Creating a superhydrophobic microenvironment through grafting octadecylamine. Chinese Journal of Chemical Engineering, 2023, 55, 41-48.	1.7	5

#	Article	IF	Citations
181	Enhanced blue emission from ZnSâ€“ZnO composites confined in SBA-15. Journal of Luminescence, 2008, 128, 1148-1154.	1.5	4
182	Ultradeep Removal of Moisture in Gases to Parts-per-Billion Levels: The Exploration of Adsorbents. Journal of Physical Chemistry C, 2018, 122, 2840-2847.	1.5	4
183	Development of High Yielded Sn-Doped Porous Carbons for Selective CO2 Capture. ACS Sustainable Chemistry and Engineering, 2019, 7, 10383-10392.	3.2	4
184	Phosphorus-containing amorphous pure organic room-temperature phosphorescent materials. European Polymer Journal, 2020, 141, 110072.	2.6	4
185	Cupric bromide-derived complex: An effective homogeneous catalyst for oxidative carbonylation of methanol to dimethyl carbonate. Journal of the Taiwan Institute of Chemical Engineers, 2011, 42, 616-621.	2.7	3
186	Generating strongly basic sites on magnetic nano-stirring bars: Multifunctional integrated catalysts for transesterification reaction. Science China Materials, 2022, 65, 2721-2728.	3.5	3
187	Unusual Copper Oxide Dispersion Achieved by Combining the Confinement Effect and Guestâ€“Host Interaction Modulation. Industrial & Engineering Chemistry Research, 2020, 59, 16296-16304.	1.8	2
188	Synthesis of mesoporous manganese dioxide/expanded graphite composite and its lithium-storage performance. Bulletin of Materials Science, 2020, 43, 1.	0.8	1
189	Molecular Gates: Fabrication of Adsorbents with Thermocontrolled Molecular Gates for Both Selective Adsorption and Efficient Regeneration (Adv. Mater. Interfaces 11/2016). Advanced Materials Interfaces, 2016, 3, .	1.9	0
190	Correction: Smart adsorbents with reversible photo-regulated molecular switches for selective adsorption and efficient regeneration. Chemical Communications, 2017, 53, 3281-3281.	2.2	0
191	Synthesis of novel periodic mesoporous organosilicas with large content of lysineâ€bridged organosilane skeleton. Micro and Nano Letters, 2017, 12, 1006-1010.	0.6	0
192	Frontispiece: Generation of Hierarchical Porosity in Metalâ€“Organic Frameworks by the Modulation of Cation Valence. Angewandte Chemie - International Edition, 2019, 58, .	7.2	0
193	Titelbild: Metalâ€“Organic Frameworks with Targetâ€Specific Active Sites Switched by Photoresponsive Motifs: Efficient Adsorbents for Tailorable CO₂ Capture (Angew. Chem. 20/2019). Angewandte Chemie, 2019, 131, 6525-6525.	1.6	0
194	Frontispiz: Generation of Hierarchical Porosity in Metalâ€“Organic Frameworks by the Modulation of Cation Valence. Angewandte Chemie, 2019, 131, .	1.6	0