Sung Hwa Jhung

List of Publications by Year
in descending order

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269 papers	25,790 citations	5574 82 h-index	7745 150 g-index
275 all docs	275 docs citations	275 times ranked	16955 citing authors

#	Article	IF	Citations
1	Removal of hazardous organics from water using metal-organic frameworks (MOFs): Plausible mechanisms for selective adsorptions. Journal of Hazardous Materials, 2015, 283, 329-339.	12.4	1,142
2	Adsorptive removal of hazardous materials using metal-organic frameworks (MOFs): A review. Journal of Hazardous Materials, 2013, 244-245, 444-456.	12.4	1,140
3	Amine Grafting on Coordinatively Unsaturated Metal Centers of MOFs: Consequences for Catalysis and Metal Encapsulation. Angewandte Chemie - International Edition, 2008, 47, 4144-4148.	13.8	1,111
4	High Uptakes of CO₂ and CH₄ in Mesoporous Metalâ€"Organic Frameworks MIL-100 and MIL-101. Langmuir, 2008, 24, 7245-7250.	3.5	1,067
5	Adsorptive removal of methyl orange and methylene blue from aqueous solution with a metal-organic framework material, iron terephthalate (MOF-235). Journal of Hazardous Materials, 2011, 185, 507-511.	12.4	977
6	Hydrogen Storage in the Giant-Pore Metalâ€"Organic Frameworks MIL-100 and MIL-101. Angewandte Chemie - International Edition, 2006, 45, 8227-8231.	13.8	716
7	Adsorptive removal of methyl orange from aqueous solution with metal-organic frameworks, porous chromium-benzenedicarboxylates. Journal of Hazardous Materials, 2010, 181, 535-542.	12.4	585
8	Synthesis of metal-organic frameworks (MOFs) with microwave or ultrasound: Rapid reaction, phase-selectivity, and size reduction. Coordination Chemistry Reviews, 2015, 285, 11-23.	18.8	424
9	Adsorptive removal of naproxen and clofibric acid from water using metal-organic frameworks. Journal of Hazardous Materials, 2012, 209-210, 151-157.	12.4	384
10	Applications of metal-organic frameworks in adsorption/separation processes via hydrogen bonding interactions. Chemical Engineering Journal, 2017, 310, 197-215.	12.7	370
11	Adsorptive desulfurization and denitrogenation using metal-organic frameworks. Journal of Hazardous Materials, 2016, 301, 259-276.	12.4	365
12	Composites of metalâ€"organic frameworks: Preparation and application in adsorption. Materials Today, 2014, 17, 136-146.	14.2	349
13	Adsorptive removal of ibuprofen and diclofenac from water using metal-organic framework-derived porous carbon. Chemical Engineering Journal, 2017, 314, 50-58.	12.7	310
14	Adsorptive removal of diclofenac sodium from water with Zr-based metalâ€"organic frameworks. Chemical Engineering Journal, 2016, 284, 1406-1413.	12.7	303
15	Synthesis of a Metalâ€"Organic Framework Material, Iron Terephthalate, by Ultrasound, Microwave, and Conventional Electric Heating: A Kinetic Study. Chemistry - A European Journal, 2010, 16, 1046-1052.	3.3	294
16	Adsorption of diclofenac sodium from water using oxidized activated carbon. Chemical Engineering Journal, 2016, 301, 27-34.	12.7	282
17	Adsorption and removal of phthalic acid and diethyl phthalate from water with zeolitic imidazolate and metalâ€"organic frameworks. Journal of Hazardous Materials, 2015, 282, 194-200.	12.4	278
18	Chemical and Thermal Stability of Isotypic Metalâ€"Organic Frameworks: Effect of Metal Ions. Chemistry - A European Journal, 2011, 17, 6437-6442.	3.3	264

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19	Adsorption of naproxen and clofibric acid over a metalâ€“organic framework MIL-101 functionalized with acidic and basic groups. Chemical Engineering Journal, 2013, 219, 537-544.	12.7	262
20	Adsorptive removal and separation of chemicals with metal-organic frameworks: Contribution of Ï€-complexation. Journal of Hazardous Materials, 2017, 325, 198-213.	12.4	245
21	Adsorptive removal of 2,4-dichlorophenoxyacetic acid (2,4-D) from water with a metalâ€“organic framework. Chemical Engineering Journal, 2013, 234, 99-105.	12.7	232
22	Adsorption of pharmaceuticals and personal care products over metal-organic frameworks functionalized with hydroxyl groups: Quantitative analyses of H-bonding in adsorption. Chemical Engineering Journal, 2017, 322, 366-374.	12.7	204
23	Ionic Liquids Supported on Metalâ€Organic Frameworks: Remarkable Adsorbents for Adsorptive Desulfurization. Chemistry - A European Journal, 2014, 20, 376-380.	3.3	195
24	Porous Cobalt(II)â€“Organic Frameworks with Corrugated Walls: Structurally Robust Gas-Sorption Materials. Angewandte Chemie - International Edition, 2007, 46, 272-275.	13.8	194
25	Adsorption of Molecular Hydrogen on Coordinatively Unsaturated Ni(II) Sites in a Nanoporous Hybrid Material. Journal of the American Chemical Society, 2006, 128, 16846-16850.	13.7	191
26	Selective formation of SAPO-5 and SAPO-34 molecular sieves with microwave irradiation and hydrothermal heating. Microporous and Mesoporous Materials, 2003, 64, 33-39.	4.4	188
27	Graphite Oxide/Metalâ€“Organic Framework (MIL-101): Remarkable Performance in the Adsorptive Denitrogenation of Model Fuels. Inorganic Chemistry, 2013, 52, 14155-14161.	4.0	188
28	Remarkable adsorptive performance of a metalâ€“organic framework, vanadium-benzenedicarboxylate (MIL-47), for benzothiophene. Chemical Communications, 2011, 47, 1306-1308.	4.1	187
29	Adsorptive Removal of Pharmaceuticals and Personal Care Products from Water with Functionalized Metal-organic Frameworks: Remarkable Adsorbents with Hydrogen-bonding Abilities. Scientific Reports, 2016, 6, 34462.	3.3	187
30	Removal of nitroimidazole antibiotics from water by adsorption over metalâ€“organic frameworks modified with urea or melamine. Chemical Engineering Journal, 2017, 315, 92-100.	12.7	186
31	Remarkable Adsorption Capacity of CuCl₂â€Loaded Porous Vanadium Benzenedicarboxylate for Benzothiophene. Angewandte Chemie - International Edition, 2012, 51, 1198-1201.	13.8	180
32	MOF-derived carbonaceous materials enriched with nitrogen: Preparation and applications in adsorption and catalysis. Materials Today, 2019, 25, 88-111.	14.2	180
33	Adsorptive removal of p-arsanilic acid from water using mesoporous zeolitic imidazolate framework-8. Chemical Engineering Journal, 2015, 267, 9-15.	12.7	175
34	Analogous porous metalâ€“organic frameworks: synthesis, stability and application in adsorption. CrystEngComm, 2012, 14, 7099.	2.6	174
35	Oxidative desulfurization and denitrogenation of fuels using metal-organic framework-based/-derived catalysts. Applied Catalysis B: Environmental, 2019, 259, 118021.	20.2	170
36	Carboxylic-acid-functionalized UiO-66-NH2: A promising adsorbent for both aqueous- and non-aqueous-phase adsorptions. Chemical Engineering Journal, 2018, 331, 124-131.	12.7	164

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37	Supramolecular Interactions and Morphology Control in Microwave Synthesis of Nanoporous Materials. Catalysis Surveys From Asia, 2004, 8, 91-110.	2.6	163
38	Microwave Fabrication of MFI Zeolite Crystals with a Fibrous Morphology and Their Applications. Angewandte Chemie - International Edition, 2005, 44, 556-560.	13.8	161
39	Effect of Central Metal Ions of Analogous Metalâ€“Organic Frameworks on Adsorption of Organoarsenic Compounds from Water: Plausible Mechanism of Adsorption and Water Purification. Chemistry - A European Journal, 2015, 21, 347-354.	3.3	155
40	Facile synthesis of nano-sized metal-organic frameworks, chromium-benzenedicarboxylate, MIL-101. Chemical Engineering Journal, 2011, 166, 1152-1157.	12.7	154
41	Adsorptive removal of methylchlorophenoxypropionic acid from water with a metal-organic framework. Chemical Engineering Journal, 2015, 270, 22-27.	12.7	154
42	Microwave Synthesis of Hybrid Inorganicâ€“Organic Porous Materials: Phase-Selective and Rapid Crystallization. Chemistry - A European Journal, 2006, 12, 7899-7905.	3.3	149
43	Microwave Effect in the Fast Synthesis of Microporous Materials: Which Stage Between Nucleation and Crystal Growth is Accelerated by Microwave Irradiation?. Chemistry - A European Journal, 2007, 13, 4410-4417.	3.3	149
44	Adsorptive denitrogenation of model fuels with porous metal-organic frameworks (MOFs): Effect of acidity and basicity of MOFs. Applied Catalysis B: Environmental, 2013, 129, 123-129.	20.2	141
45	Metal-organic framework-derived carbons: Preparation from ZIF-8 and application in the adsorptive removal of sulfamethoxazole from water. Catalysis Today, 2018, 301, 90-97.	4.4	137
46	Adsorptive removal of wide range of pharmaceutical and personal care products from water by using metal azolate framework-6-derived porous carbon. Chemical Engineering Journal, 2018, 343, 447-454.	12.7	134
47	Nitrogen-Doped Porous Carbons from Ionic Liquids@MOF: Remarkable Adsorbents for Both Aqueous and Nonaqueous Media. ACS Applied Materials & Interfaces, 2017, 9, 10276-10285.	8.0	133
48	Oxidative desulfurization of benzothiophene and thiophene with WOx/ZrO2 catalysts: Effect of calcination temperature of catalysts. Journal of Hazardous Materials, 2012, 205-206, 216-221.	12.4	130
49	Adsorption of organic arsenic acids from water over functionalized metal-organic frameworks. Journal of Hazardous Materials, 2017, 335, 162-169.	12.4	128
50	Adsorptive removal of anti-inflammatory drugs from water using graphene oxide/metal-organic framework composites. Chemical Engineering Journal, 2018, 335, 74-81.	12.7	127
51	Superior adsorption capacity of mesoporous carbon nitride with basic CN framework for phenol. Journal of Materials Chemistry, 2010, 20, 10801.	6.7	125
52	Low-temperature loading of Cu+ species over porous metal-organic frameworks (MOFs) and adsorptive desulfurization with Cu+-loaded MOFs. Journal of Hazardous Materials, 2012, 237-238, 180-185.	12.4	124
53	Remarkably efficient adsorbent for the removal of bisphenol A from water: Bio-MOF-1-derived porous carbon. Chemical Engineering Journal, 2018, 343, 225-234.	12.7	122
54	Beyond pristine metal-organic frameworks: Preparation and application of nanostructured, nanosized, and analogous MOFs. Coordination Chemistry Reviews, 2018, 376, 20-45.	18.8	121

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55	Selective sulfoxidation of aryl sulfides by coordinatively unsaturated metal centers in chromium carboxylate MIL-101. Applied Catalysis A: General, 2009, 358, 249-253.	4.3	118
56	Catalytic behavior of metalâ€“organic frameworks in the Knoevenagel condensation reaction. Journal of Catalysis, 2014, 316, 251-259.	6.2	118
57	Effective adsorptive removal of indole from model fuel using a metal-organic framework functionalized with amino groups. Journal of Hazardous Materials, 2015, 283, 544-550.	12.4	112
58	Sulfonic acid-functionalized MIL-101(Cr): An efficient catalyst for esterification of oleic acid and vapor-phase dehydration of butanol. Chemical Engineering Journal, 2015, 278, 265-271.	12.7	112
59	UiO-66-Type Metalâ€“Organic Framework with Free Carboxylic Acid: Versatile Adsorbents via H-bond for Both Aqueous and Nonaqueous Phases. ACS Applied Materials & Interfaces, 2016, 8, 27394-27402.	8.0	112
60	Adsorptive removal of herbicides from water over nitrogen-doped carbon obtained from ionic liquid@ZIF-8. Chemical Engineering Journal, 2017, 323, 203-211.	12.7	112
61	TiO₂-Containing Carbon Derived from a Metalâ€“Organic Framework Composite: A Highly Active Catalyst for Oxidative Desulfurization. ACS Applied Materials & Interfaces, 2017, 9, 31192-31202.	8.0	110
62	Adsorption of benzotriazole and benzimidazole from water over a Co-based metal azolate framework MAF-5(Co). Journal of Hazardous Materials, 2017, 324, 131-138.	12.4	110
63	Mesoporous metal-organic framework PCN-222(Fe): Promising adsorbent for removal of big anionic and cationic dyes from water. Chemical Engineering Journal, 2019, 371, 252-259.	12.7	109
64	Adsorptive removal of hazardous organics from water and fuel with functionalized metal-organic frameworks: Contribution of functional groups. Journal of Hazardous Materials, 2021, 403, 123655.	12.4	109
65	Crystal morphology control of AFI type molecular sieves with microwave irradiation. Journal of Materials Chemistry, 2004, 14, 280.	6.7	107
66	Ionic liquid@MIL-101 prepared via the ship-in-bottle technique: remarkable adsorbents for the removal of benzothiophene from liquid fuel. Chemical Communications, 2016, 52, 2561-2564.	4.1	105
67	Phase-Transition and Phase-Selective Synthesis of Porous Chromium-Benzenedicarboxylates. Crystal Growth and Design, 2010, 10, 1860-1865.	3.0	102
68	Adsorptive denitrogenation of model fuel with CuCl-loaded metalâ€“organic frameworks (MOFs). Chemical Engineering Journal, 2014, 251, 35-42.	12.7	101
69	Adsorptive removal of benzothiophene using porous copper-benzenetricarboxylate loaded with phosphotungstic acid. Fuel Processing Technology, 2012, 100, 49-54.	7.2	99
70	Adsorptive Removal of Bisphenol-A from Water with a Metal-Organic Framework, a Porous Chromium-Benzenedicarboxylate. Journal of Nanoscience and Nanotechnology, 2013, 13, 2789-2794.	0.9	99
71	Effects of linker substitution on catalytic properties of porous zirconium terephthalate UiO-66 in acetalization of benzaldehyde with methanol. Applied Catalysis A: General, 2014, 471, 91-97.	4.3	98
72	Adsorptive denitrogenation of model fuels with porous metal-organic framework (MOF) MIL-101 impregnated with phosphotungstic acid: Effect of acid site inclusion. Journal of Hazardous Materials, 2013, 250-251, 37-44.	12.4	96

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73	Synthesis of isostructural metalâ€“organic frameworks, CPO-27s, with ultrasound, microwave, and conventional heating: Effect of synthesis methods and metal ions. Chemical Engineering Journal, 2011, 173, 866-872.	12.7	94
74	Adsorption of Pyridine over Amino-Functionalized Metalâ€“Organic Frameworks: Attraction via Hydrogen Bonding versus Baseâ€“Base Repulsion. Journal of Physical Chemistry C, 2014, 118, 21049-21056.	3.1	92
75	Heteropoly acid-loaded ionic liquid@metal-organic frameworks: Effective and reusable adsorbents for the desulfurization of a liquid model fuel. Chemical Engineering Journal, 2018, 334, 2215-2221.	12.7	92
76	Adsorptive removal of pesticides from water with metalâ€“organic framework-based materials. Chemical Engineering Journal, 2021, 421, 129688.	12.7	92
77	Covalent organic framework-based materials: Synthesis, modification, and application in environmental remediation. Coordination Chemistry Reviews, 2021, 441, 213989.	18.8	91
78	Adsorption of Nitrogen-Containing Compounds from Model Fuel over Sulfonated Metalâ€“Organic Framework: Contribution of Hydrogen-Bonding and Acidâ€“Base Interactions in Adsorption. Journal of Physical Chemistry C, 2016, 120, 407-415.	3.1	90
79	Adsorptive desulfurization using Cuâ€“Ce/metalâ€“organic framework: Improved performance based on synergy between Cu and Ce. Chemical Engineering Journal, 2017, 311, 20-27.	12.7	89
80	A remarkable adsorbent for removal of contaminants of emerging concern from water: Porous carbon derived from metal azolate framework-6. Journal of Hazardous Materials, 2017, 340, 179-188.	12.4	88
81	Liquid-Phase Adsorption of Aromatics over a Metalâ€“Organic Framework and Activated Carbon: Effects of Hydrophobicity/Hydrophilicity of Adsorbents and Solvent Polarity. Journal of Physical Chemistry C, 2015, 119, 26620-26627.	3.1	86
82	Adsorptive Removal of Artificial Sweeteners from Water Using Metalâ€“Organic Frameworks Functionalized with Urea or Melamine. ACS Applied Materials & Interfaces, 2016, 8, 29799-29807.	8.0	85
83	Contribution of H-bond in adsorptive removal of pharmaceutical and personal care products from water using oxidized activated carbon. Microporous and Mesoporous Materials, 2017, 243, 221-228.	4.4	83
84	Rapid syntheses of a metalâ€“organic framework material Cu3(BTC)2(H2O)3 under microwave: a quantitative analysis of accelerated syntheses. Physical Chemistry Chemical Physics, 2010, 12, 2625.	2.8	82
85	Synthesis of a Metalâ€“Organic Framework, Iron-Benezenetricarboxylate, from Dry Gels in the Absence of Acid and Salt. Crystal Growth and Design, 2012, 12, 5878-5881.	3.0	81
86	Facile Synthesis of Nanoporous Nickel Phosphates without Organic Templates under Microwave Irradiation. Chemistry of Materials, 2005, 17, 4455-4460.	6.7	79
87	Remarkable adsorbent for phenol removal from fuel: Functionalized metalâ€“organic framework. Fuel, 2016, 174, 43-48.	6.4	79
88	Contribution of hydrogen bonding to liquid-phase adsorptive removal of hazardous organics with metal-organic framework-based materials. Chemical Engineering Journal, 2022, 430, 132596.	12.7	79
89	Synthesis and characterization of the vanadium-incorporated molecular sieve VAPO-5. Applied Catalysis, 1990, 62, 61-72.	0.8	77
90	Low-Temperature Adsorption of Hydrogen on Nanoporous Aluminophosphates:Â Effect of Pore Size. Journal of Physical Chemistry B, 2006, 110, 9371-9374.	2.6	75

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91	Selective hydrogenation of d-glucose to d-sorbitol over HY zeolite supported ruthenium nanoparticles catalysts. Catalysis Today, 2014, 232, 99-107.	4.4	72
92	Facile Method To Disperse Nonporous Metal Organic Frameworks: Composite Formation with a Porous Metal Organic Framework and Application in Adsorptive Desulfurization. ACS Applied Materials & Interfaces, 2015, 7, 10429-10435.	8.0	71
93	Remarkable adsorptive removal of nitrogen-containing compounds from a model fuel by a graphene oxide/MIL-101 composite through a combined effect of improved porosity and hydrogen bonding. Journal of Hazardous Materials, 2016, 314, 318-325.	12.4	70
94	Molybdenum nitride@porous carbon, derived from phosphomolybdic acid loaded metal-azolate framework-6: A highly effective catalyst for oxidative desulfurization. Applied Catalysis B: Environmental, 2021, 288, 119988.	20.2	70
95	Accelerated Syntheses of Porous Isostructural Lanthanideâ€“Benzenetricarboxylates (Lnâ€“BTC) Under Ultrasound at Room Temperature. European Journal of Inorganic Chemistry, 2010, 2010, 4975-4981.	2.0	69
96	Protonated MIL-125-NH₂: Remarkable Adsorbent for the Removal of Quinoline and Indole from Liquid Fuel. ACS Applied Materials & Interfaces, 2017, 9, 20938-20946.	8.0	69
97	Adsorptive removal of wide range of pharmaceuticals and personal care products from water using bio-MOF-1 derived porous carbon. Microporous and Mesoporous Materials, 2018, 270, 102-108.	4.4	68
98	Metal-organic framework MIL-101 loaded with polymethacrylamide with or without further reduction: Effective and selective CO2 adsorption with amino or amide functionality. Chemical Engineering Journal, 2020, 380, 122496.	12.7	68
99	Isostructural metal-carboxylates MIL-100(M) and MIL-53(M) (M: V, Al, Fe and Cr) as catalysts for condensation of glycerol with acetone. Applied Catalysis A: General, 2017, 529, 167-174.	4.3	67
100	Nitrogen-doped porous carbon from ionic liquid@Al-metal-organic framework: A prominent adsorbent for purification of both aqueous and non-aqueous solutions. Chemical Engineering Journal, 2018, 338, 107-116.	12.7	67
101	Liquid-phase dehydration of sorbitol to isosorbide using sulfated zirconia as a solid acid catalyst. Applied Catalysis A: General, 2013, 452, 34-38.	4.3	66
102	Removal of particulate matter with metalâ€“organic framework-incorporated materials. Coordination Chemistry Reviews, 2020, 422, 213477.	18.8	66
103	Metal-organic frameworks bearing free carboxylic acids: Preparation, modification, and applications. Coordination Chemistry Reviews, 2022, 450, 214237.	18.8	66
104	Effect of central metal ions of analogous metal-organic frameworks on the adsorptive removal of benzothiophene from a model fuel. Journal of Hazardous Materials, 2013, 260, 1050-1056.	12.4	65
105	Adsorptive removal of nitrogen-containing compounds from a model fuel using a metalâ€“organic framework having a free carboxylic acid group. Chemical Engineering Journal, 2016, 299, 236-243.	12.7	65
106	Liquid-phase dehydration of sorbitol to isosorbide using sulfated titania as a solid acid catalyst. Chemical Engineering Science, 2013, 93, 91-95.	3.8	63
107	A remarkable adsorbent for removal of bisphenol S from water: Aminated metal-organic framework, MIL-101-NH2. Chemical Engineering Journal, 2020, 396, 125224.	12.7	63
108	Adsorptive removal of indole and quinoline from model fuel using adenine-grafted metal-organic frameworks. Journal of Hazardous Materials, 2018, 344, 593-601.	12.4	62

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109	Adsorptive removal of aromatic hydrocarbons from water over metal azolate framework-6-derived carbons. Journal of Hazardous Materials, 2018, 344, 1069-1077.	12.4	62
110	Adsorptive denitrogenation of model fuel by functionalized UiO-66 with acidic and basic moieties. Chemical Engineering Journal, 2017, 321, 40-47.	12.7	61
111	CO sensor derived from mesostructured Au-doped SnO2 thin film. Applied Surface Science, 2006, 252, 4298-4305.	6.1	59
112	Remarkable improvement in adsorptive denitrogenation of model fossil fuels with CuCl/activated carbon, prepared under ambient condition. Chemical Engineering Journal, 2015, 279, 327-334.	12.7	59
113	Adsorptive denitrogenation of model fossil fuels with Lewis acid-loaded metalâ€“organic frameworks (MOFs). Chemical Engineering Journal, 2014, 255, 623-629.	12.7	58
114	Hydrophobic Cobalt-Ethylimidazolate Frameworks: Phase-Pure Syntheses and Possible Application in Cleaning of Contaminated Water. Inorganic Chemistry, 2016, 55, 11362-11371.	4.0	58
115	Adsorptive Removal of Indole and Quinoline from Model Fuel over Various UiO-66s: Quantitative Contributions of H-Bonding and Acidâ€“Base Interactions to Adsorption. Journal of Physical Chemistry C, 2018, 122, 4532-4539.	3.1	58
116	Selective CO2 adsorption over functionalized Zr-based metal organic framework under atmospheric or lower pressure: Contribution of functional groups to adsorption. Chemical Engineering Journal, 2020, 402, 126254.	12.7	58
117	Co supported on N-doped carbon, derived from bimetallic azolate framework-6: a highly effective oxidative desulfurization catalyst. Journal of Materials Chemistry A, 2019, 7, 17823-17833.	10.3	55
118	Phase-selective synthesis and phase-conversion of porous aluminum-benzenetricarboxylates with microwave irradiation. Microporous and Mesoporous Materials, 2012, 152, 235-239.	4.4	53
119	A shape-selective catalyst for epoxidation of cyclic olefins: The nanoporous nickel phosphate VSB-5. Journal of Catalysis, 2006, 239, 97-104.	6.2	52
120	Adsorption of indole and quinoline from a model fuel on functionalized MIL-101: effects of H-bonding and coordination. Physical Chemistry Chemical Physics, 2016, 18, 14787-14794.	2.8	52
121	Conversion of Y into SSZ-13 zeolites and ethylene-to-propylene reactions over the obtained SSZ-13 zeolites. Chemical Engineering Journal, 2016, 303, 667-674.	12.7	52
122	Adsorptive removal of artificial sweeteners from water using porous carbons derived from metal azolate framework-6. Microporous and Mesoporous Materials, 2018, 260, 1-8.	4.4	51
123	Low-Temperature Adsorption/Storage of Hydrogen on FAU, MFI, and MOR Zeolites with Various Si/Al Ratios: Effect of Electrostatic Fields and Pore Structures. Chemistry - A European Journal, 2007, 13, 6502-6507.	3.3	50
124	Facile Purification of Porous Metal Terephthalates with Ultrasonic Treatment in the Presence of Amides. Chemistry - A European Journal, 2009, 15, 11730-11736.	3.3	50
125	Polyaniline-Encapsulated Metalâ€“Organic Framework MIL-101: Adsorbent with Record-High Adsorption Capacity for the Removal of Both Basic Quinoline and Neutral Indole from Liquid Fuel. ACS Applied Materials & Interfaces, 2018, 10, 35639-35646.	8.0	50
126	Polyvinylamine-loaded metalâ€“organic framework MIL-101 for effective and selective CO2 adsorption under atmospheric or lower pressure. Chemical Engineering Journal, 2020, 389, 123429.	12.7	50

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127	Metalâ€“organic frameworks containing uncoordinated nitrogen: Preparation, modification, and application in adsorption. Materials Today, 2021, 51, 566-585.	14.2	50
128	Selective crystallization of CoAPO-34 and VAPO-5 molecular sieves under microwave irradiation in an alkaline or neutral condition. Microporous and Mesoporous Materials, 2005, 80, 147-152.	4.4	49
129	Polyaniline-derived porous carbons: Remarkable adsorbent for removal of various hazardous organics from both aqueous and non-aqueous media. Journal of Hazardous Materials, 2018, 360, 163-171.	12.4	49
130	Isomorphous Substitution of Transition-Metal Ions in the Nanoporous Nickel Phosphate VSB-5. Journal of Physical Chemistry B, 2005, 109, 845-850.	2.6	48
131	Highly Improved Performance of Cotton Air Filters in Particulate Matter Removal by the Incorporation of Metalâ€“Organic Frameworks with Functional Groups Capable of Large Charge Separation. ACS Applied Materials & Interfaces, 2020, 12, 28885-28893.	8.0	48
132	Nanoporous Metal-Containing Nickel Phosphates: A Class of Shape-Selective Catalyst. Angewandte Chemie - International Edition, 2004, 43, 2819-2822.	13.8	47
133	Synthesis of isostructural porous metal-benzenedicarboxylates: Effect of metal ions on the kinetics of synthesis. CrystEngComm, 2010, 12, 2749.	2.6	47
134	Polyaniline-loaded metal-organic framework MIL-101(Cr): Promising adsorbent for CO2 capture with increased capacity and selectivity by polyaniline introduction. Journal of CO2 Utilization, 2018, 28, 319-325.	6.8	47
135	Effects of reaction conditions in microwave synthesis of nanocrystalline barium titanate. Materials Letters, 2004, 58, 3161-3165.	2.6	46
136	Effect of Water Concentration and Acidity on the Synthesis of Porous Chromium Benzenedicarboxylates. European Journal of Inorganic Chemistry, 2010, 2010, 1043-1048.	2.0	46
137	Water adsorption/desorption over metal-organic frameworks with ammonium group for possible application in adsorption heat transformation. Chemical Engineering Journal, 2019, 373, 1064-1071.	12.7	46
138	Metal organic framework derived mesoporous carbon nitrides with a high specific surface area and chromium oxide nanoparticles for CO₂ and hydrogen adsorption. Journal of Materials Chemistry A, 2017, 5, 21542-21549.	10.3	45
139	Oligomerization of isobutene over dealuminated Y zeolite catalysts. Applied Catalysis A: General, 2008, 337, 73-77.	4.3	44
140	Syntheses of Metalâ€“Organic Frameworks and Aluminophosphates under Microwave Heating: Quantitative Analysis of Accelerations. Crystal Growth and Design, 2011, 11, 4413-4421.	3.0	44
141	Carbon-derived from metal-organic framework MOF-74: A remarkable adsorbent to remove a wide range of contaminants of emerging concern from water. Applied Surface Science, 2020, 504, 144348.	6.1	44
142	Adsorption and Removal of Sulfur or Nitrogen-Containing Compounds with Metal-Organic Frameworks (MOFs). Advanced Porous Materials, 2013, 1, 91-102.	0.3	44
143	Template-Free Synthesis of the Nanoporous Nickel Phosphate VSB-5 under Microwave Irradiation. Chemistry of Materials, 2004, 16, 1394-1396.	6.7	43
144	Adsorptive removal of benzothiophene from model fuel, using modified activated carbons, in presence of diethylether. Fuel, 2015, 145, 249-255.	6.4	43

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145	Acid-base properties and catalytic activity of metal-organic frameworks: A view from spectroscopic and semiempirical methods. Catalysis Reviews - Science and Engineering, 2016, 58, 209-307.	12.9	43
146	Well-dispersed Ni or MnO nanoparticles on mesoporous carbons: preparation via carbonization of bimetallic MOF-74s for highly reactive redox catalysts. Nanoscale, 2018, 10, 15035-15047.	5.6	43
147	Oxidative denitrogenation with TiO2@porous carbon catalyst for purification of fuel: Chemical aspects. Applied Catalysis B: Environmental, 2019, 240, 215-224.	20.2	43
148	Effect of Pt concentration on the physicochemical properties and CO sensing activity of mesostructured SnO2. Sensors and Actuators B: Chemical, 2006, 114, 275-282.	7.8	42
149	Crystal size control of transition metal ion-incorporated aluminophosphate molecular sieves: Effect of ramping rate in the syntheses. Microporous and Mesoporous Materials, 2008, 112, 178-186.	4.4	42
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