Hong-Xia Xi

List of Publications by Year in descending order

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106 papers	4,722 citations	81839 39 h-index	106281 65 g-index
106 all docs	106 docs citations	106 times ranked	4886 citing authors

#	Article	IF	Citations
1	Synthesis of hierarchical porous carbon with high surface area by chemical activation of (NH4)2C2O4 modified hydrochar for chlorobenzene adsorption. Journal of Environmental Sciences, 2023, 126, 123-137.	3.2	10
2	Recent advances in adsorptive separation of ethane and ethylene by C2H6-selective MOFs and other adsorbents. Chemical Engineering Journal, 2022, 431, 133208.	6.6	58
3	Recent advances in the synthesis of nanoscale hierarchically porous metalâ€“organic frameworks. Nano Materials Science, 2022, 4, 351-365.	3.9	29
4	Highly selective separation of propylene/propane mixture on cost-effectively four-carbon linkers based metal-organic frameworks. Chinese Journal of Chemical Engineering, 2022, 51, 126-134.	1.7	5
5	Application of hierarchically porous metal-organic frameworks in heterogeneous catalysis: A review. Science China Materials, 2022, 65, 298-320.	3.5	36
6	Modification of Ti3C2 MXene nanosheets with tunable properties using a post-processing method. Rare Metals, 2022, 41, 3100-3106.	3.6	3
7	Recent advancements in metalâ€“organic frameworks for green applications. Green Energy and Environment, 2021, 6, 33-49.	4.7	111
8	Facile fabrication of nanoscale hierarchical porous zeolitic imidazolate frameworks for enhanced toluene adsorption capacity. Rare Metals, 2021, 40, 471-477.	3.6	16
9	A Ni-based metal-organic framework with super-high C3H8 uptake for adsorptive separation of light alkanes. Separation and Purification Technology, 2021, 266, 118198.	3.9	18
10	Preferential adsorption of ethane over ethylene on a Zr-based metalâ€“organic framework: impacts of Câ€“Hâ‹¯N hydrogen bonding. New Journal of Chemistry, 2021, 45, 8045-8053.	1.4	16
11	Recent advances in the synthesis of monolithic metal-organic frameworks. Science China Materials, 2021, 64, 1305-1319.	3.5	77
12	Predicting adsorption and separation performance indicators of Xe/Kr in metal-organic frameworks via a precursor-based neural network model. Chemical Engineering Science, 2021, 243, 116772.	1.9	6
13	Engineering New Defects in MIL-100(Fe) via a Mixed-Ligand Approach To Effect Enhanced Volatile Organic Compound Adsorption Capacity. Industrial & Engineering Chemistry Research, 2020, 59, 774-782.	1.8	93
14	Room-Temperature Rapid Synthesis of Two-Dimensional Metalâ€“Organic Framework Nanosheets with Tunable Hierarchical Porosity for Enhanced Adsorption Desulfurization Performance. Industrial & Engineering Chemistry Research, 2020, 59, 18857-18864.	1.8	78
15	Improving <scp>CH₄</scp>/<scp>N₂</scp> selectivity within isomeric Alâ€based MOFs for the highly selective capture of coalâ€mine methane. AIChE Journal, 2020, 66, e16287.	1.8	42
16	Ultrafast room-temperature synthesis of hierarchically porous metalâ€“organic frameworks with high spaceâ€“time yields. CrystEngComm, 2020, 22, 2675-2680.	1.3	15
17	Water-based routes for synthesis of metal-organic frameworks: A review. Science China Materials, 2020, 63, 667-685.	3.5	131
18	Fe-Encapsulated ZSM-5 Zeolite with Nanosheet-Assembled Structure for the Selective Catalytic Reduction of NO_x with NH₃. Industrial & Engineering Chemistry Research, 2020, 59, 8592-8600.	1.8	11

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19	Ultrahigh CO2/CH4 and CO2/N2 adsorption selectivities on a cost-effectively L-aspartic acid based metal-organic framework. Chemical Engineering Journal, 2019, 375, 122074.	6.6	50
20	Cationic surfactant-directed synthesis of hollow Beta zeolite with hierarchical structure. Inorganic Chemistry Communication, 2019, 107, 107468.	1.8	22
21	Green and rapid preparation of hierarchically porous metalâ€“organic zeolites and simulation of their growth. Journal of Materials Chemistry A, 2019, 7, 1022-1029.	5.2	13
22	Templated fabrication of hierarchically porous metalâ€“organic frameworks and simulation of crystal growth. Nanoscale Advances, 2019, 1, 1062-1069.	2.2	20
23	Nanoscale Hierarchically Porous Metalâ€“Organic Frameworks: Facile Synthesis, Mechanism Research, and Application. ACS Sustainable Chemistry and Engineering, 2019, 7, 11080-11087.	3.2	20
24	Moisture stability of ethaneâ€selective Ni(II), Fe(III), Zr(IV)â€based metalâ€“organic frameworks. AICHE Journal, 2019, 65, e16616.	1.8	28
25	Dual Template Preparation of MFI Zeolites with Tuning Catalytic Properties in Alkylation of Mesitylene with Benzyl Alcohol. Industrial & Engineering Chemistry Research, 2019, 58, 2924-2932.	1.8	19
26	Facile Synthesis of Hierarchical Microâ€mesoporous HKUSTâ€1 Using Organic Silane Surfactant as a Novel Template. ChemistrySelect, 2019, 4, 2079-2083.	0.7	4
27	Fabrication of meso- and microporous MFI zeolites by amphiphilic molecules with biphenol group. Microporous and Mesoporous Materials, 2019, 279, 278-285.	2.2	6
28	In Situ Fabrication of Hierarchical MTW Zeolite via Nanoparticle Assembly by a Tailored Simple Organic Molecule. Chemistry - A European Journal, 2018, 24, 8133-8140.	1.7	7
29	Selective Adsorption of Ethane over Ethylene in PCN-245: Impacts of Interpenetrated Adsorbent. ACS Applied Materials & Interfaces, 2018, 10, 8366-8373.	4.0	112
30	Effective enhancement on methanol adsorption in Cu-BTC by combination of lithium-doping and nitrogen-doping functionalization. Journal of Materials Science, 2018, 53, 6080-6093.	1.7	9
31	New functionalized IRMOF-10 with strong affinity for methanol: A simulation study. Applied Surface Science, 2018, 440, 351-358.	3.1	20
32	Hierarchically structured metalâ€“organic frameworks assembled by hydroxy double saltâ€“template synergy with high spaceâ€“time yields. CrystEngComm, 2018, 20, 1057-1064.	1.3	37
33	Facile synthesis of hierarchical porous metal-organic frameworks with enhanced catalytic activity. Chemical Engineering Journal, 2018, 334, 1477-1483.	6.6	91
34	Hierarchically porous metalâ€“organic frameworks: rapid synthesis and enhanced gas storage. Soft Matter, 2018, 14, 9589-9598.	1.2	48
35	Softâ€templating Synthesis of Mesoporous Metalâ€“Organic Frameworks with Enhanced Toluene Adsorption Capacity. ChemistrySelect, 2018, 3, 12888-12893.	0.7	19
36	Rapid Synthesis of Hierarchical Porous Metalâ€“Organic Frameworks and the Simulation of Growth. Crystal Growth and Design, 2018, 18, 6661-6669.	1.4	12

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37	Unusual Moisture-Enhanced CO₂ Capture within Microporous PCN-250 Frameworks. ACS Applied Materials & Interfaces, 2018, 10, 38638-38647.	4.0	57
38	Ultrafast room-temperature synthesis of hierarchically porous metalâ€“organic frameworks by a versatile cooperative template strategy. Journal of Materials Science, 2018, 53, 16276-16287.	1.7	74
39	Hierarchically porous metalâ€“organic frameworks with single-crystal structures and their enhanced catalytic properties. CrystEngComm, 2018, 20, 5754-5759.	1.3	27
40	Synthesis of Hierarchically Structured Metalâ˜Organic Frameworks by a Dualâ€Functional Surfactant. ChemistrySelect, 2018, 3, 5313-5320.	0.7	23
41	Green and rapid synthesis of hierarchical porous zeolitic imidazolate frameworks for enhanced CO2 capture. Inorganica Chimica Acta, 2018, 482, 358-363.	1.2	20
42	Hierarchically Porous Metalâ€“Organic Frameworks: Green Synthesis and High Space-Time Yield. Industrial & Engineering Chemistry Research, 2018, 57, 9136-9143.	1.8	24
43	Rapid room-temperature synthesis of hierarchical porous metal organic frameworks. AIP Conference Proceedings, 2018, , .	0.3	2
44	Selective Adsorptive Separation of CO₂/CH₄ and CO₂/N₂ by a Water Resistant Zirconiumâ€“Porphyrin Metalâ€“Organic Framework. Industrial & Engineering Chemistry Research, 2018, 57, 12215-12224.	1.8	48
45	In Situ FT-IR and DFT Study of the Synergistic Effects of Cerium Presence in the Framework and the Surface in NH3-SCR. Aerosol and Air Quality Research, 2018, 18, 655-670.	0.9	10
46	Synthesis and catalytic performance of hierarchically structured beta zeolites by a dual-functional templating approach. New Journal of Chemistry, 2017, 41, 3950-3956.	1.4	16
47	Efficient Mechanochemical Synthesis of MOF-5 for Linear Alkanes Adsorption. Journal of Chemical & Engineering Data, 2017, 62, 2030-2036.	1.0	101
48	The synergistic effects of cerium presence in the framework and the surface resistance to SO 2 and H 2 O in NH 3 -SCR. Journal of Industrial and Engineering Chemistry, 2017, 56, 108-119.	2.9	53
49	Tailoring Hierarchical Zeolites with Designed Cationic Surfactants and Their High Catalytic Performance. Chemistry - an Asian Journal, 2017, 12, 2711-2719.	1.7	14
50	In Situ Assembly of Nanoparticles into Hierarchical Beta Zeolite with Tailored Simple Organic Molecule. Langmuir, 2017, 33, 14396-14404.	1.6	22
51	Template synthesis of hierarchical porous metalâ€“organic frameworks with tunable porosity. RSC Advances, 2017, 7, 52245-52251.	1.7	65
52	Impacts of Gas Impurities from Pipeline Natural Gas on Methane Storage in Metalâ€“Organic Frameworks during Long-Term Cycling. Journal of Physical Chemistry C, 2017, 121, 15735-15745.	1.5	24
53	Highly efficient mechanochemical synthesis of an indium based metal-organic framework with excellent water stability. Chemical Engineering Science, 2017, 158, 539-544.	1.9	55
54	A new MOF-505@GO composite with high selectivity for CO 2 /CH 4 and CO 2 /N 2 separation. Chemical Engineering Journal, 2017, 308, 1065-1072.	6.6	230

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55	Facile synthesis of mesostructured ZSM-5 zeolite with enhanced mass transport and catalytic performances. Applied Surface Science, 2017, 392, 785-794.	3.1	33
56	Rapid room-temperature synthesis of hierarchical porous zeolitic imidazolate frameworks with high space-time yield. Science China Materials, 2017, 60, 1205-1214.	3.5	56
57	Effects of the Framework and Mesoporosity on the Catalytic Activity of Hierarchical Zeolite Catalysts in Benzyl Alcohol Conversion. ChemCatChem, 2016, 8, 2406-2414.	1.8	15
58	New activated carbon with high thermal conductivity and its microwave regeneration performance. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 328-333.	0.4	8
59	Tuning the adsorption and separation properties of noble gases and N2 in CuBTC by ligand functionalization. RSC Advances, 2016, 6, 91093-91101.	1.7	11
60	Direct synthesis of hierarchical USY zeolite for retardation of catalyst deactivation. Chemical Engineering Science, 2016, 153, 374-381.	1.9	34
61	Fabrication of a hierarchically structured HKUST-1 by a mixed-ligand approach. RSC Advances, 2016, 6, 61006-61012.	1.7	39
62	Adsorptive Separation of Methanolâ€“Acetone on Isostructural Series of Metalâ€“Organic Frameworks M-BTC (M = Ti, Fe, Cu, Co, Ru, Mo): A Computational Study of Adsorption Mechanisms and Metal-Substitution Impacts. ACS Applied Materials & Interfaces, 2015, 7, 26930-26940.	4.0	49
63	Investigation of structure formation mechanism of a mesoporous ZSM-5 zeolite by mesoscopic simulation. Chemical Physics, 2015, 448, 9-14.	0.9	9
64	Effective Ligand Functionalization of Zirconium-Based Metalâ€“Organic Frameworks for the Adsorption and Separation of Benzene and Toluene: A Multiscale Computational Study. ACS Applied Materials & Interfaces, 2015, 7, 5775-5787.	4.0	63
65	Adsorption and separation of ethane/ethylene on ZIFs with various topologies: Combining GCMC simulation with the ideal adsorbed solution theory (IAST). Chemical Engineering Science, 2015, 124, 144-153.	1.9	83
66	Enhancement effect of lithium-doping functionalization on methanol adsorption in copper-based metal-organic framework. Chemical Engineering Science, 2015, 123, 1-10.	1.9	28
67	Effect of synthesis conditions on the structural and catalytic properties of hierarchically structured ZSM-5 zeolites. RSC Advances, 2014, 4, 13831.	1.7	14
68	Effect of gasoline composition on oxidative desulfurization using a phosphotungstic acid/activated carbon catalyst with hydrogen peroxide. Applied Energy, 2014, 113, 78-85.	5.1	217
69	Gas transport properties and propylene/propane separation characteristics of ZIF-8 membranes. Journal of Membrane Science, 2014, 451, 85-93.	4.1	251
70	Hierarchically structured Beta zeolites with intercrystal mesopores and the improved catalytic properties. Applied Catalysis A: General, 2014, 470, 412-419.	2.2	26
71	Adsorption performance of a MIL-101(Cr)/graphite oxide composite for a series of n-alkanes. RSC Advances, 2014, 4, 56216-56223.	1.7	47
72	Template synthesis of the hierarchically structured MFI zeolite with nanosheet frameworks and tailored structure. New Journal of Chemistry, 2014, 38, 4380.	1.4	33

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73	Effect of electrostatic properties of IRMOFs on VOCs adsorption: a density functional theory study. Adsorption, 2014, 20, 777-788.	1.4	9
74	Adsorptive Denitrogenation of Fuel over Metal Organic Frameworks: Effect of N-Types and Adsorption Mechanisms. Journal of Physical Chemistry C, 2014, 118, 22533-22543.	1.5	34
75	Experimental and molecular simulation studies of CO2 adsorption on zeolitic imidazolate frameworks: ZIF-8 and amine-modified ZIF-8. Adsorption, 2013, 19, 25-37.	1.4	115
76	Synthesis and structural properties of hierarchically structured aluminosilicates with zeolite Y (FAU) frameworks. RSC Advances, 2013, 3, 15075.	1.7	42
77	Adsorption and separation of CH4/H2 in MIL-101s by molecular simulation study. Chemical Engineering Science, 2013, 98, 246-254.	1.9	20
78	Molecular simulation and experimental studies of a mesoporous ZSM-5 type molecular sieve. Physical Chemistry Chemical Physics, 2013, 15, 2741.	1.3	7
79	Facile synthesis of mesoporous aluminosilicates constructed with crystalline microporous frameworks. Applied Surface Science, 2013, 279, 55-61.	3.1	7
80	Direct synthesis of mesoporous ZSM-5 zeolite by a dual-functional surfactant approach. Chemical Engineering Journal, 2012, 210, 96-102.	6.6	55
81	Mesoscopic simulation of surfactant/silicate self-assembly in the mesophase formation of SBA-15 under charge matching interactions. European Polymer Journal, 2012, 48, 1892-1900.	2.6	9
82	Fabrication of a hierarchically structured beta zeolite by a dual-porogenic surfactant. Journal of Materials Chemistry, 2012, 22, 18631.	6.7	46
83	Adsorption and corrosion-inhibiting effect of 2-(2-{[2-(4-Pyridylcarbonyl)hydrazono]methyl}phenoxy)acetic acid on mild steel surface in seawater. Applied Surface Science, 2012, 258, 6679-6687.	3.1	50
84	Adsorption Equilibrium and Kinetics of CO₂ on Chromium Terephthalate MIL-101. Energy & Fuels, 2011, 25, 835-842.	2.5	149
85	Improvement of CO2 adsorption on ZIF-8 crystals modified by enhancing basicity of surface. Chemical Engineering Science, 2011, 66, 4878-4888.	1.9	175
86	Adsorption breakthrough of benzene in the fixed bed of modified activated carbon under different humidity conditions. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 499-503.	0.4	1
87	Effects of loading different metal ions on an activated carbon on the desorption activation energy of dichloromethane/trichloromethane. Journal of Hazardous Materials, 2010, 179, 790-794.	6.5	34
88	SWELLING BEHAVIOR OF CHEMICAL MODIFIED SOY PROTEIN GELS. Acta Polymerica Sinica, 2010, 010, 1116-1121.	0.0	0
89	Effect of Relative Humidity on Catalytic Combustion of Toluene over Copper Based Catalysts with Different Supports. Chinese Journal of Chemical Engineering, 2009, 17, 767-772.	1.7	22
90	Catalytic activity of copper based catalysts pretreated with H2 reduction for catalytic combustion of styrene. Catalysis Communications, 2009, 10, 1166-1169.	1.6	7

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91	Effect of textural property of coconut shell-based activated carbon on desorption activation energy of benzothiophene. Frontiers of Chemical Engineering in China, 2008, 2, 269-275.	0.6	2
92	Fast synthesis of temperature-sensitive PNIPAAm hydrogels by microwave irradiation. European Polymer Journal, 2008, 44, 1217-1224.	2.6	63
93	Effect of Relative Humidity on Adsorption of Formaldehyde on Modified Activated Carbons. Chinese Journal of Chemical Engineering, 2008, 16, 871-875.	1.7	65
94	Desorption activation energy of dibenzothiophene on the activated carbons modified by different metal salt solutions. Chemical Engineering Journal, 2007, 132, 233-239.	6.6	51
95	Effects of pore sizes of porous silica gels on desorption activation energy of water vapour. Applied Thermal Engineering, 2007, 27, 869-876.	3.0	99
96	Development and applications of solar-based thermoelectric technologies. Renewable and Sustainable Energy Reviews, 2007, 11, 923-936.	8.2	243
97	Effects of Ionic Strength on the Uptake of Taurine and Glycine onto a Strongly Basic Anion-Exchange Resin. Adsorption Science and Technology, 2006, 24, 737-748.	1.5	2
98	Effects of Textural Properties and Surface Oxygen Content of Activated Carbons on the Desorption Activation Energy of Water. Adsorption Science and Technology, 2006, 24, 363-374.	1.5	25
99	Effect of ultrasound on desorption kinetics of phenol from polymeric resin. Ultrasonics Sonochemistry, 2006, 13, 225-231.	3.8	19
100	Activation Energy for Dibenzofuran Desorption from Fe3+/TiO2 and Ce3+/TiO2 Photocatalysts Coated onto Glass Fibres. Adsorption Science and Technology, 2005, 23, 357-366.	1.5	15
101	Influence of the microporosity and surface chemistry of polymeric resins on adsorptive properties toward phenol. Journal of Hazardous Materials, 2004, 113, 131-135.	6.5	27
102	Effects of inverse gas chromatography measurement conditions on elution peaks on activated carbon. Carbon, 2004, 42, 3012-3015.	5.4	2
103	Estimation of activation energy for desorption of low-volatility dioxins on zeolites by TPD technique. Separation and Purification Technology, 2003, 31, 41-45.	3.9	41
104	Estimation of Activation Energy of Desorption of n-Hexanol from Activated Carbons by the TPD Technique. Adsorption Science and Technology, 2003, 21, 125-133.	1.5	25
105	Effects of ultrasound on adsorption equilibrium of phenol on polymeric adsorption resin. Chemical Engineering Journal, 2002, 86, 375-379.	6.6	69
106	Rapid Synthesis of Hierarchically Structured Multifunctional Metalâ€“Organic Zeolites with Enhanced Volatile Organic Compounds Adsorption Capacity. Industrial & Engineering Chemistry Research, 0, , .	1.8	19