Mao-Hong Fan

List of Publications by Year
in descending order

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410 papers	26,478 citations	8181 76 h-index	8866 145 g-index
420 all docs	420 docs citations	420 times ranked	27772 citing authors

#	Article	IF	Citations
1	Progress in carbon dioxide separation and capture: A review. Journal of Environmental Sciences, 2008, 20, 14-27.	6.1	1,765
2	New Application of Z-Scheme Ag₃PO₄/g-C₃N₄ Composite in Converting CO₂ to Fuel. Environmental Science & Technology, 2015, 49, 649-656.	10.0	812
3	Recent developments in heterogeneous photocatalytic water treatment using visible light-responsive photocatalysts: a review. RSC Advances, 2015, 5, 14610-14630.	3.6	796
4	Amine-Based CO₂ Capture Technology Development from the Beginning of 2013â€"A Review. ACS Applied Materials & Interfaces, 2015, 7, 2137-2148.	8.0	686
5	Review of recent advances in carbon dioxide separation and capture. RSC Advances, 2013, 3, 22739.	3.6	632
6	CO2 hydrogenation to high-value products via heterogeneous catalysis. Nature Communications, 2019, 10, 5698.	12.8	571
7	Prodrugs Forming High Drug Loading Multifunctional Nanocapsules for Intracellular Cancer Drug Delivery. Journal of the American Chemical Society, 2010, 132, 4259-4265.	13.7	532
8	Rapid decolorization of azo dye methyl orange in aqueous solution by nanoscale zerovalent iron particles. Journal of Hazardous Materials, 2009, 166, 904-910.	12.4	504
9	The progress in water gas shift and steam reforming hydrogen production technologies â€“ A review. International Journal of Hydrogen Energy, 2014, 39, 16983-17000.	7.1	492
10	Progress in oxygen carrier development of methane-based chemical-looping reforming: A review. Applied Energy, 2015, 151, 143-156.	10.1	416
11	Synthesis, Properties, and Environmental Applications of Nanoscale Iron-Based Materials: A Review. Critical Reviews in Environmental Science and Technology, 2006, 36, 405-431.	12.8	393
12	Sulfate Radical and Its Application in Decontamination Technologies. Critical Reviews in Environmental Science and Technology, 2015, 45, 1756-1800.	12.8	392
13	Z-scheme SnO2â^'x/g-C3N4 composite as an efficient photocatalyst for dye degradation and photocatalytic CO2 reduction. Solar Energy Materials and Solar Cells, 2015, 137, 175-184.	6.2	364
14	Preparation of activated carbon from forest and agricultural residues through CO activation. Chemical Engineering Journal, 2004, 105, 53-59.	12.7	347
15	Adsorbents for capturing mercury in coal-fired boiler flue gas. Journal of Hazardous Materials, 2007, 146, 1-11.	12.4	322
16	Enhanced CO₂ Capture Capacity of Nitrogen-Doped Biomass-Derived Porous Carbons. ACS Sustainable Chemistry and Engineering, 2016, 4, 1439-1445.	6.7	313
17	The recent progress and future of oxygen reduction reaction catalysis: A review. Renewable and Sustainable Energy Reviews, 2017, 69, 401-414.	16.4	300
18	Chargeâ€Reversal Drug Conjugate for Targeted Cancer Cell Nuclear Drug Delivery. Advanced Functional Materials, 2009, 19, 3580-3589.	14.9	291

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19	Decolorization of an azo dye Orange G in aqueous solution by Fenton oxidation process: Effect of system parameters and kinetic study. Journal of Hazardous Materials, 2009, 161, 1052-1057.	12.4	281
20	Extraction of lithium with functionalized lithium ion-sieves. Progress in Materials Science, 2016, 84, 276-313.	32.8	258
21	A kinetic study on the degradation of p-nitroaniline by Fenton oxidation process. Journal of Hazardous Materials, 2007, 148, 172-177.	12.4	230
22	High-performance of nanostructured Ni/CeO2 catalyst on CO2 methanation. Applied Catalysis B: Environmental, 2020, 268, 118474.	20.2	226
23	Mesoporous amine-modified SiO2 aerogel: a potential CO2 sorbent. Energy and Environmental Science, 2011, 4, 2070.	30.8	214
24	The Current State of Water Quality and Technology Development for Water Pollution Control in China. Critical Reviews in Environmental Science and Technology, 2010, 40, 519-560.	12.8	207
25	Enhanced photodegradation activity of methyl orange over Z-scheme type MoO₃â€“g-C₃N₄ composite under visible light irradiation. RSC Advances, 2014, 4, 13610-13619.	3.6	205
26	Review of the progress in preparing nano TiO2: An important environmental engineering material. Journal of Environmental Sciences, 2014, 26, 2139-2177.	6.1	202
27	Electrochemical nitrate reduction by using a novel Co 3 O 4 /Ti cathode. Water Research, 2017, 120, 1-11.	11.3	202
28	Removal of phenols from water environment by activated carbon, bagasse ash and wood charcoal. Chemical Engineering Journal, 2007, 129, 133-142.	12.7	191
29	Solvent extraction of selected endocrine-disrupting phenols using ionic liquids. Separation and Purification Technology, 2008, 61, 324-331.	7.9	191
30	Photocatalytic Applications of Micro- and Nano-TiO₂in Environmental Engineering. Critical Reviews in Environmental Science and Technology, 2008, 38, 197-226.	12.8	182
31	Highly Cost-Effective Nitrogen-Doped Porous Coconut Shell-Based CO₂ Sorbent Synthesized by Combining Ammoxidation with KOH Activation. Environmental Science & Technology, 2015, 49, 7063-7070.	10.0	173
32	Adsorption of arsenic(V) by activated carbon prepared from oat hulls. Chemosphere, 2005, 61, 478-483.	8.2	165
33	Evaluation of iron oxide and aluminum oxide as potential arsenic(V) adsorbents. Chemical Engineering and Processing: Process Intensification, 2007, 46, 1030-1039.	3.6	164
34	A new nanoporous nitrogen-doped highly-efficient carbonaceous CO2 sorbent synthesized with inexpensive urea and petroleum coke. Carbon, 2015, 81, 465-473.	10.3	158
35	Effect of competing solutes on arsenic(V) adsorption using iron and aluminum oxides. Journal of Environmental Sciences, 2007, 19, 910-919.	6.1	143
36	Degradation of azo dye Acid black 1 using low concentration iron of Fenton process facilitated by ultrasonic irradiation. Ultrasonics Sonochemistry, 2007, 14, 761-766.	8.2	139

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37	Comparing Two New Composite Photocatalysts, t-LaVO₄/g-C₃N₄ and m-LaVO₄/g-C₃N₄, for Their Structures and Performances. Industrial & Engineering Chemistry Research, 2014, 53, 5905-5915.	3.7	137
38	Progress in O2 separation for oxy-fuel combustionâ€“A promising way for cost-effective CO2 capture: A review. Progress in Energy and Combustion Science, 2018, 67, 188-205.	31.2	135
39	Separation and structural characterization of the value-added chemicals from mild degradation of lignites: A review. Applied Energy, 2016, 170, 415-436.	10.1	129
40	High-efficiency conversion of CO2 to fuel over ZnO/g-C3N4 photocatalyst. Applied Catalysis B: Environmental, 2015, 168-169, 1-8.	20.2	128
41	Recovery of rare earth elements with ionic liquids. Green Chemistry, 2017, 19, 4469-4493.	9.0	126
42	Biohydrogen-production from beer lees biomass by cow dung compost. Biomass and Bioenergy, 2006, 30, 493-496.	5.7	125
43	Removal of tetracycline from water by Fe-Mn binary oxide. Journal of Environmental Sciences, 2012, 24, 242-247.	6.1	125
44	Catalyst-TiO(OH)2 could drastically reduce the energy consumption of CO2 capture. Nature Communications, 2018, 9, 2672.	12.8	122
45	Steam activation of chars produced from oat hulls and corn stover. Bioresource Technology, 2004, 93, 103-107.	9.6	120
46	Ca2Fe2O5: A promising oxygen carrier for CO/CH4 conversion and almost-pure H2 production with inherent CO2 capture over a two-step chemical looping hydrogen generation process. Applied Energy, 2018, 211, 431-442.	10.1	119
47	Factors Affecting Ionic Liquids Based Removal of Anionic Dyes from Water. Environmental Science & Technology, 2007, 41, 5090-5095.	10.0	116
48	A novel Bi₂S₃/KTa_{0.75}Nb_{0.25}O₃nanocomposite with high efficiency for photocatalytic and piezocatalytic N₂fixation. Journal of Materials Chemistry A, 2021, 9, 13344-13354.	10.3	109
49	Catalytic hydrogen production from fossil fuels via the water gas shift reaction. Applied Energy, 2015, 139, 335-349.	10.1	105
50	Facile Synthesis of Polyester Dendrimers from Sequential Click Coupling of Asymmetrical Monomers. Journal of the American Chemical Society, 2009, 131, 14795-14803.	13.7	104
51	Boosting photocatalytic CO2 reduction over a covalent organic framework decorated with ruthenium nanoparticles. Chemical Engineering Journal, 2021, 405, 127011.	12.7	104
52	Low-Pressure Hydrogenation of CO₂ to CH₃OH Using Ni-In-Al/SiO₂ Catalyst Synthesized via a Phyllosilicate Precursor. ACS Catalysis, 2017, 7, 5679-5692.	11.2	103
53	Characteristics and defluoridation performance of granular activated carbons coated with manganese oxides. Journal of Hazardous Materials, 2009, 168, 1140-1146.	12.4	102
54	Study on carbon deposition associated with catalytic CH4 reforming by using density functional theory. Fuel, 2013, 113, 712-718.	6.4	101

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55	Tunable catalytic properties of multi-metalâ€“organic frameworks for aerobic styrene oxidation. Chemical Engineering Journal, 2016, 299, 135-141.	12.7	100
56	A DFT study on lignin dissolution in imidazolium-based ionic liquids. RSC Advances, 2017, 7, 12670-12681.	3.6	100
57	Efficient Ionicâ€Liquidâ€Promoted Chemical Fixation of CO₂ into Î±â€Alkylidene Cyclic Carbonates. ChemSusChem, 2017, 10, 1120-1127.	6.8	99
58	Charge-reversal polyamidoamine dendrimer for cascade nuclear drug delivery. Nanomedicine, 2010, 5, 1205-1217.	3.3	97
59	Progress in Nonoxidative Dehydroaromatization of Methane in the Last 6 Years. Industrial & Engineering Chemistry Research, 2018, 57, 1768-1789.	3.7	97
60	Recent progress in theoretical and computational studies on the utilization of lignocellulosic materials. Green Chemistry, 2019, 21, 9-35.	9.0	96
61	Preparation and characterization of a novel silica aerogel as adsorbent for toxic organic compounds. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 347, 38-44.	4.7	95
62	Amine-modified ordered mesoporous silica: The effect of pore size on CO2 capture performance. Applied Surface Science, 2015, 324, 286-292.	6.1	92
63	Role of Hydrogen Peroxide Preoxidizing on CO₂ Adsorption of Nitrogen-Doped Carbons Produced from Coconut Shell. ACS Sustainable Chemistry and Engineering, 2016, 4, 2806-2813.	6.7	92
64	Modified carbon nanotubes/tetraethylenepentamine for CO2 capture. Fuel, 2017, 206, 10-18.	6.4	92
65	Kinetics, thermodynamics, and physical characterization of corn stover (Zea mays) for solar biomass pyrolysis potential analysis. Bioresource Technology, 2019, 284, 466-473.	9.6	92
66	Improvement of H2-rich gas production with tar abatement from pine wood conversion over bi-functional Ca2Fe2O5 catalyst: Investigation of inner-looping redox reaction and promoting mechanisms. Applied Energy, 2018, 212, 931-943.	10.1	89
67	Recent progress in improving the stability of copper-based catalysts for hydrogenation of carbonâ€“oxygen bonds. Catalysis Science and Technology, 2018, 8, 3428-3449.	4.1	89
68	CO₂ Adsorption on Hazelnut-Shell-Derived Nitrogen-Doped Porous Carbons Synthesized by Single-Step Sodium Amide Activation. Industrial & Engineering Chemistry Research, 2020, 59, 7046-7053.	3.7	88
69	Comparison of the Loss-on-Ignition and Thermogravimetric Analysis Techniques in Measuring Unburned Carbon in Coal Fly Ash. Energy & Fuels, 2001, 15, 1414-1417.	5.1	84
70	A new aerogel based CO₂adsorbent developed using a simple solâ€“gel method along with supercritical drying. Chemical Communications, 2014, 50, 12158-12161.	4.1	83
71	Highly efficient and reversible CO₂ adsorption by amine-grafted platelet SBA-15 with expanded pore diameters and short mesochannels. Green Chemistry, 2014, 16, 4009-4016.	9.0	82
72	Modified nanosepiolite as an inexpensive support of tetraethylenepentamine for CO2 sorption. Nano Energy, 2015, 11, 235-246.	16.0	82

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73	Highly selective and stable Cu/SiO2 catalysts prepared with a green method for hydrogenation of diethyl oxalate into ethylene glycol. Applied Catalysis B: Environmental, 2017, 209, 530-542.	20.2	81
74	C₂ Oxygenate Synthesis via Fischerâ€“Tropsch Synthesis on Co₂C and Co/Co₂C Interface Catalysts: How To Control the Catalyst Crystal Facet for Optimal Selectivity. ACS Catalysis, 2017, 7, 8285-8295.	11.2	81
75	Use of Nanoporous FeOOH as a Catalytic Support for NaHCO₃ Decomposition Aimed at Reduction of Energy Requirement of Na₂CO₃/NaHCO₃ Based CO₂ Separation Technology. Journal of Physical Chemistry C, 2011, 115, 15532-15544.	3.1	80
76	Dynamic separation of ultradilute CO2 with a nanoporous amine-based sorbent. Chemical Engineering Journal, 2012, 189-190, 13-23.	12.7	80
77	Synthesis of linear low-density polyethylene-g-poly (acrylic acid)-co-starch/organo-montmorillonite hydrogel composite as an adsorbent for removal of Pb(Î™Î™) from aqueous solutions. Journal of Environmental Sciences, 2015, 27, 9-20.	6.1	78
78	Oxidative decomposition of p-nitroaniline in water by solar photo-Fenton advanced oxidation process. Journal of Hazardous Materials, 2008, 153, 187-193.	12.4	77
79	Measurements and correlation of viscosities and conductivities for the mixtures of imidazolium ionic liquids with molecular solutes. Chemical Engineering Journal, 2009, 147, 27-35.	12.7	77
80	Magnetic titanium dioxide based nanomaterials: synthesis, characteristics, and photocatalytic application in pollutant degradation. Journal of Materials Chemistry A, 2015, 3, 17511-17524.	10.3	77
81	Density functional theory study on the reaction between hematite and methane during chemical looping process. Applied Energy, 2015, 159, 132-144.	10.1	77
82	Engineering Ni/SiO2 catalysts for enhanced CO2 methanation. Fuel, 2021, 285, 119151.	6.4	76
83	Adsorption of CO₂ by Petroleum Coke Nitrogen-Doped Porous Carbons Synthesized by Combining Ammoxidation with KOH Activation. Industrial & Engineering Chemistry Research, 2016, 55, 757-765.	3.7	75
84	Ultrasound-enhanced coagulation for Microcystis aeruginosa removal. Ultrasonics Sonochemistry, 2009, 16, 334-338.	8.2	74
85	CO2 gasification of Powder River Basin coal catalyzed by a cost-effective and environmentally friendly iron catalyst. Applied Energy, 2015, 145, 295-305.	10.1	74
86	Catalytic gasification of a Powder River Basin coal. Fuel, 2013, 103, 161-170.	6.4	73
87	Emerging contaminants in surface waters in Chinaâ€”a short review. Environmental Research Letters, 2014, 9, 074018.	5.2	72
88	Dynamic capture of low-concentration CO2 on amine hybrid silsesquioxane aerogel. Chemical Engineering Journal, 2016, 283, 1059-1068.	12.7	72
89	Development of monolithic adsorbent via polymeric solâ€“gel process for low-concentration CO2 capture. Applied Energy, 2015, 147, 308-317.	10.1	71
90	CO2 removal from flue gas with amine-impregnated titanate nanotubes. Nano Energy, 2016, 25, 1-8.	16.0	69

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91	Perspectives on the Active Sites and Catalyst Design for the Hydrogenation of Dimethyl Oxalate. ACS Catalysis, 2020, 10, 4465-4490.	11.2	69
92	Modeling the crystallization of magnesium ammonium phosphate for phosphorus recovery. Chemosphere, 2006, 65, 1182-1187.	8.2	68
93	Temperature dependent microstructure of MTES modified hydrophobic silica aerogels. Materials Letters, 2011, 65, 606-609.	2.6	68
94	Enhancement of acidic dye biosorption capacity on poly(ethylenimine) grafted anaerobic granular sludge. Journal of Hazardous Materials, 2011, 189, 27-33.	12.4	68
95	A novel low-cost method of silica aerogel fabrication using fly ash and trona ore with ambient pressure drying technique. Powder Technology, 2018, 323, 310-322.	4.2	66
96	Preparation of monolith SiC aerogel with high surface area and large pore volume and the structural evolution during the preparation. Ceramics International, 2014, 40, 8265-8271.	4.8	65
97	Enhanced lattice oxygen reactivity over Fe2O3/Al2O3 redox catalyst for chemical-looping dry (CO2) reforming of CH4: Synergistic La-Ce effect. Journal of Catalysis, 2018, 368, 38-52.	6.2	65
98	Anaerobic co-digestion of biosolids and organic fraction of municipal solid waste by sequencing batch process. Fuel Processing Technology, 2008, 89, 485-489.	7.2	64
99	Application of computational chemistry in understanding the mechanisms of mercury removal technologies: a review. Energy and Environmental Science, 2015, 8, 3109-3133.	30.8	64
100	Degradable Dual pHâ€•and Temperatureâ€Responsive Photoluminescent Dendrimers. Chemistry - A European Journal, 2011, 17, 5319-5326.	3.3	63
101	Enhancement of CO2 adsorption and amine efficiency of titania modified by moderate loading of diethylenetriamine. Journal of Materials Chemistry A, 2013, 1, 6208.	10.3	63
102	Effects of an environmentally-friendly, inexpensive composite ironâ€“sodium catalyst on coal gasification. Fuel, 2014, 116, 341-349.	6.4	63
103	Self-activated, nanostructured composite for improved CaL-CLC technology. Chemical Engineering Journal, 2018, 351, 1038-1046.	12.7	63
104	Effect of the interactions between Pt species and ceria on Pt/ceria catalysts for water gas shift: The XPS studies. Chemical Engineering Journal, 2015, 259, 293-302.	12.7	62
105	Efficient CO₂ Capture by Nitrogen-Doped Biocarbons Derived from Rotten Strawberries. Industrial & Engineering Chemistry Research, 2017, 56, 14115-14122.	3.7	62
106	Coreâ€“Shell Covalently Linked Graphitic Carbon Nitrideâ€“Melamineâ€“Resorcinolâ€“Formaldehyde Microsphere Polymers for Efficient Photocatalytic CO₂ Reduction to Methanol. Journal of the American Chemical Society, 2022, 144, 9576-9585.	13.7	62
107	Metal halide perovskites for photocatalysis applications. Journal of Materials Chemistry A, 2022, 10, 407-429.	10.3	61
108	Bisphenol A oxidative removal by ferrate (Fe(VI)) under a weak acidic condition. Separation and Purification Technology, 2012, 84, 46-51.	7.9	60

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109	Indirect coal to liquid technologies. Applied Catalysis A: General, 2014, 476, 158-174.	4.3	60
110	Preparation and application of nanoglued binary titaniaâ€“silica aerogel. Journal of Hazardous Materials, 2009, 161, 175-182.	12.4	59
111	Catalytic CH4 reforming with CO2 over activated carbon based catalysts. Applied Catalysis A: General, 2014, 469, 387-397.	4.3	59
112	High efficiency photocatalytic conversion of CO₂ with H₂O over Pt/TiO₂ nanoparticles. RSC Advances, 2014, 4, 44442-44451.	3.6	59
113	New Copper(I)/DBU Catalyst System for the Carboxylative Cyclization of Propargylic Amines with Atmospheric CO₂: An Experimental and Theoretical Study. ACS Sustainable Chemistry and Engineering, 2016, 4, 5553-5560.	6.7	59
114	Facile decoration of carbon fibers with Ag nanoparticles for adsorption and photocatalytic reduction of CO2. Applied Catalysis B: Environmental, 2017, 202, 314-325.	20.2	59
115	Oxidation of As(III) by potassium permanganate. Journal of Environmental Sciences, 2007, 19, 783-786.	6.1	58
116	Air Pollution and Control in Different Areas of China. Critical Reviews in Environmental Science and Technology, 2010, 40, 452-518.	12.8	58
117	Effect of copper on highly effective Fe-Mn based catalysts during production of light olefins via Fischer-Tropsch process with low CO2 emission. Applied Catalysis B: Environmental, 2020, 278, 119302.	20.2	58
118	Capturing CO₂ with Amine-Impregnated Titanium Oxides. Energy & Fuels, 2013, 27, 5433-5439.	5.1	57
119	Nitrogen-doped porous carbon spheres derived from <scp>d</scp>-glucose as highly-efficient CO₂ sorbents. RSC Advances, 2015, 5, 37964-37969.	3.6	57
120	Thermogravimetric and kinetics investigation of pine wood pyrolysis catalyzed with alkali-treated CaO/ZSM-5. Energy Conversion and Management, 2017, 146, 182-194.	9.2	57
121	Pyrolysis characteristics and kinetics of residue from China Shenhua industrial direct coal liquefaction plant. Thermochimica Acta, 2014, 589, 1-10.	2.7	55
122	Advance in Using Plasma Technology for Modification or Fabrication of Carbonâ€Based Materials and Their Applications in Environmental, Material, and Energy Fields. Advanced Functional Materials, 2021, 31, 2006287.	14.9	55
123	Synthesis and Applications of Ionic Liquids in Clean Energy and Environment: A Review. Current Organic Chemistry, 2015, 19, 455-468.	1.6	55
124	CO₂ Separation by a New Solid Kâ^'Fe Sorbent. Energy & Fuels, 2011, 25, 1919-1925.	5.1	54
125	Reduction of Nitrite by Ultrasound-Dispersed Nanoscale Zero-Valent Iron Particles. Industrial & Engineering Chemistry Research, 2008, 47, 8550-8554.	3.7	53
126	Enhanced photocatalytic CO₂ reduction over Co-doped NH₂-MIL-125(Ti) under visible light. RSC Advances, 2017, 7, 42819-42825.	3.6	53

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127	Hydrogen-Bonding Interactions in Pyridinium-Based Ionic Liquids and Dimethyl Sulfoxide Binary Systems: A Combined Experimental and Computational Study. ACS Omega, 2018, 3, 1823-1833.	3.5	53
128	Resolving a Decade-Long Question of Oxygen Defects in Raman Spectra of Ceria-Based Catalysts at Atomic Level. Journal of Physical Chemistry C, 2019, 123, 18889-18894.	3.1	53
129	Preliminary study of alkaline single flowing Znâ€“O2 battery. Electrochemistry Communications, 2009, 11, 2191-2194.	4.7	52
130	Evaluation of FeOOH performance on selenium reduction. Separation and Purification Technology, 2012, 84, 29-34.	7.9	52
131	Facile synthesis of nitrogen-enriched nanoporous carbon materials for high performance supercapacitors. Journal of Colloid and Interface Science, 2019, 538, 199-208.	9.4	52
132	Novel Na2SO4@SiO2 phase change material with core-shell structures for high temperature thermal storage. Solar Energy Materials and Solar Cells, 2018, 178, 280-288.	6.2	51
133	H2 and COx generation from coal gasification catalyzed by a cost-effective iron catalyst. Applied Catalysis A: General, 2013, 464-465, 207-217.	4.3	50
134	Effect of Ce on 5Âwt% Ni/ZSM-5 catalysts in the CO 2 reforming of CH 4 reaction. International Journal of Hydrogen Energy, 2014, 39, 15482-15496.	7.1	50
135	N-doped carbons with hierarchically micro- and mesoporous structure derived from sawdust for high performance supercapacitors. Microporous and Mesoporous Materials, 2019, 279, 323-333.	4.4	50
136	NMR Techniques and Prediction Models for the Analysis of Species Formed in CO₂ Capture Processes with Amine-Based Sorbents: A Critical Review. ACS Sustainable Chemistry and Engineering, 2020, 8, 6173-6193.	6.7	50
137	Nano silver oxide (AgO) as a super high charge/discharge rate cathode material for rechargeable alkaline batteries. Journal of Materials Chemistry, 2007, 17, 4820.	6.7	49
138	Graphene: A review of applications in the petroleum industry. Journal of Petroleum Science and Engineering, 2018, 167, 152-159.	4.2	49
139	Factors affecting the direct mineralization of CO2 with olivine. Journal of Environmental Sciences, 2011, 23, 1233-1239.	6.1	48
140	Application of Ag/AgBr/GdVO 4 composite photocatalyst in wastewater treatment. Journal of Environmental Sciences, 2018, 63, 68-75.	6.1	48
141	Facile synthesis of an amine hybrid aerogel with high adsorption efficiency and regenerability for air capture via a solvothermal-assisted solâ€“gel process and supercritical drying. Green Chemistry, 2015, 17, 3436-3445.	9.0	47
142	Temperature modulation of defects in NH₂-UiO-66(Zr) for photocatalytic CO₂ reduction. RSC Advances, 2019, 9, 37733-37738.	3.6	47
143	Aerobic granulation for methylene blue biodegradation in a sequencing batch reactor. Desalination, 2011, 276, 233-238.	8.2	46
144	Visible-light-driven photocatalytic CO₂ reduction over ketoenamine-based covalent organic frameworks: role of the host functional groups. Catalysis Science and Technology, 2021, 11, 1717-1724.	4.1	46

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145	Use of multifunctional nanoporous TiO(OH)2 for catalytic NaHCO3 decomposition-eventually for Na2CO3/NaHCO3 based CO2 separation technology. Separation and Purification Technology, 2011, 80, 364-374.	7.9	45
146	Experimental investigation of CO2 adsorption and desorption on multi-type amines loaded HZSM-5 zeolites. Chemical Engineering Journal, 2021, 406, 126882.	12.7	45
147	Mechanistic Study on Water Gas Shift Reaction on the Fe₃O₄ (111) Reconstructed Surface. Journal of Physical Chemistry C, 2015, 119, 28934-28945.	3.1	44
148	Fabrication of Prussian Blue/Multiwalled Carbon Nanotubes/Glass Carbon Electrode through Sequential Deposition. Industrial & Engineering Chemistry Research, 2007, 46, 6847-6851.	3.7	43
149	Synthesis of methanol from CO₂hydrogenation promoted by dissociative adsorption of hydrogen on a Ga₃Ni₅(221) surface. Physical Chemistry Chemical Physics, 2017, 19, 18539-18555.	2.8	43
150	Synergistic enhancement of chemical looping-based CO₂ splitting with biomass cascade utilization using cyclic stabilized Ca₂Fe₂O₅ aerogel. Journal of Materials Chemistry A, 2019, 7, 1216-1226.	10.3	43
151	A DFT study of Hg0 adsorption on Co3O4 (1 1 0) surface. Chemical Engineering Journal, 2016, 289, 349-355.	12.7	42
152	A Selfâ€Supported Î»â€MnO₂ Film Electrode used for Electrochemical Lithium Recovery from Brines. ChemPlusChem, 2018, 83, 521-528.	2.8	42
153	Evaluation of natural goethite on the removal of arsenate and selenite from water. Journal of Environmental Sciences, 2019, 76, 133-141.	6.1	42
154	Degradation of ibuprofen in the carbon dots/Fe3O4@carbon sphere pomegranate-like composites activated persulfate system. Separation and Purification Technology, 2020, 242, 116820.	7.9	42
155	A new mesoporous amine-TiO2 based pre-combustion CO2 capture technology. Applied Energy, 2015, 147, 214-223.	10.1	41
156	CO2 capture using nanoporous TiO(OH)2/tetraethylenepentamine. Fuel, 2016, 183, 601-608.	6.4	41
157	Synthesis, Characterization, and Coagulation of Polymeric Ferric Sulfate. Journal of Environmental Engineering, ASCE, 2002, 128, 483-490.	1.4	40
158	An environmentally benign and low-cost approach to synthesis of thermally stable industrial catalyst Cu/SiO2 for the hydrogenation of dimethyl oxalate to ethylene glycol. Applied Catalysis A: General, 2015, 505, 52-61.	4.3	40
159	QSAR models for oxidative degradation of organic pollutants in the Fenton process. Journal of the Taiwan Institute of Chemical Engineers, 2015, 46, 140-147.	5.3	40
160	N-doped hierarchically micro- and mesoporous carbons with superior performance in supercapacitors. Electrochimica Acta, 2018, 291, 103-113.	5.2	40
161	Policy study on development and utilization of clean coal technology in China. Fuel Processing Technology, 2008, 89, 475-484.	7.2	39
162	Tetraethylenepentamine modified protonated titanate nanotubes for CO 2 capture. Fuel Processing Technology, 2015, 138, 663-669.	7.2	39

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163	Catalytic CO2 gasification of a Powder River Basin coal. Fuel Processing Technology, 2015, 130, 107-116.	7.2	39
164	Application of mass spectrometry in the characterization of chemicals in coalâ€derived liquids. Mass Spectrometry Reviews, 2017, 36, 543-579.	5.4	39
165	Lithium adsorption performance of a three-dimensional porous H₂TiO₃-type lithium ion-sieve in strong alkaline Bayer liquor. RSC Advances, 2017, 7, 18883-18891.	3.6	39
166	Low-energy-consumption and environmentally friendly CO2 capture via blending alcohols into amine solution. Applied Energy, 2019, 254, 113696.	10.1	39
167	Production of a complex coagulant from fly ash. Chemical Engineering Journal, 2005, 106, 269-277.	12.7	38
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