Aiqin Wang

List of Publications by Year
in descending order

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750 papers	64,277 citations	952 115 h-index	1385 222 g-index
770 all docs	770 docs citations	770 times ranked	39870 citing authors

#	Article	IF	Citations
1	Single-atom catalysis of CO oxidation using Pt1/FeOx. Nature Chemistry, 2011, 3, 634-641.	13.6	5,149
2	Single-Atom Catalysts: A New Frontier in Heterogeneous Catalysis. Accounts of Chemical Research, 2013, 46, 1740-1748.	15.6	3,405
3	Heterogeneous single-atom catalysis. Nature Reviews Chemistry, 2018, 2, 65-81.	30.2	2,728
4	Catalytic Transformation of Lignin for the Production of Chemicals and Fuels. Chemical Reviews, 2015, 115, 11559-11624.	47.7	2,200
5	Photoelectrochemical devices for solar water splitting â€“ materials and challenges. Chemical Society Reviews, 2017, 46, 4645-4660.	38.1	1,140
6	FeOx-supported platinum single-atom and pseudo-single-atom catalysts for chemoselective hydrogenation of functionalized nitroarenes. Nature Communications, 2014, 5, 5634.	12.8	890
7	Selective Hydrogenation over Supported Metal Catalysts: From Nanoparticles to Single Atoms. Chemical Reviews, 2020, 120, 683-733.	47.7	871
8	Remarkable Performance of Ir₁/FeO_x Single-Atom Catalyst in Water Gas Shift Reaction. Journal of the American Chemical Society, 2013, 135, 15314-15317.	13.7	811
9	Discriminating Catalytically Active FeN_x Species of Atomically Dispersed Feâ€“Nâ€“C Catalyst for Selective Oxidation of the Câ€“H Bond. Journal of the American Chemical Society, 2017, 139, 10790-10798.	13.7	738
10	Direct Catalytic Conversion of Cellulose into Ethylene Glycol Using Nickelâ€Promoted Tungsten Carbide Catalysts. Angewandte Chemie - International Edition, 2008, 47, 8510-8513.	13.8	671
11	Single-atom dispersed Coâ€“Nâ€“C catalyst: structure identification and performance for hydrogenative coupling of nitroarenes. Chemical Science, 2016, 7, 5758-5764.	7.4	571
12	Ag Alloyed Pd Single-Atom Catalysts for Efficient Selective Hydrogenation of Acetylene to Ethylene in Excess Ethylene. ACS Catalysis, 2015, 5, 3717-3725.	11.2	545
13	Thermally stable single atom Pt/m-Al2O3 for selective hydrogenation and CO oxidation. Nature Communications, 2017, 8, 16100.	12.8	545
14	Single-Atom Catalysts Based on the Metalâ€“Oxide Interaction. Chemical Reviews, 2020, 120, 11986-12043.	47.7	486
15	Adsorption characteristics of Congo Red onto the chitosan/montmorillonite nanocomposite. Journal of Hazardous Materials, 2007, 147, 979-985.	12.4	428
16	Ultrastable single-atom gold catalysts with strong covalent metal-support interaction (CMSI). Nano Research, 2015, 8, 2913-2924.	10.4	422
17	One-Pot Conversion of Cellulose to Ethylene Glycol with Multifunctional Tungsten-Based Catalysts. Accounts of Chemical Research, 2013, 46, 1377-1386.	15.6	420
18	Magnetic, Durable, and Superhydrophobic Polyurethane@Fe₃O₄@SiO₂@Fluoropolymer Sponges for Selective Oil Absorption and Oil/Water Separation. ACS Applied Materials & Interfaces, 2015, 7, 4936-4946.	8.0	407

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19	Atomically dispersed nickel as coke-resistant active sites for methane dry reforming. Nature Communications, 2019, 10, 5181.	12.8	398
20	Highly Efficient Catalysis of Preferential Oxidation of CO in H₂-Rich Stream by Gold Single-Atom Catalysts. ACS Catalysis, 2015, 5, 6249-6254.	11.2	380
21	Recent Advances in Preferential Oxidation of CO Reaction over Platinum Group Metal Catalysts. ACS Catalysis, 2012, 2, 1165-1178.	11.2	378
22	Hydroformylation of Olefins by a Rhodium Singleâ€Atom Catalyst with Activity Comparable to RhCl(PPh₃)₃. Angewandte Chemie - International Edition, 2016, 55, 16054-16058.	13.8	376
23	Performance of Cu-Alloyed Pd Single-Atom Catalyst for Semihydrogenation of Acetylene under Simulated Front-End Conditions. ACS Catalysis, 2017, 7, 1491-1500.	11.2	374
24	pH-sensitive sodium alginate/poly(vinyl alcohol) hydrogel beads prepared by combined Ca2+ crosslinking and freeze-thawing cycles for controlled release of diclofenac sodium. International Journal of Biological Macromolecules, 2010, 46, 517-523.	7.5	369
25	One-pot catalytic hydrocracking of raw woody biomass into chemicals over supported carbide catalysts: simultaneous conversion of cellulose, hemicellulose and lignin. Energy and Environmental Science, 2012, 5, 6383-6390.	30.8	358
26	PdZn Intermetallic Nanostructure with Pdâ€“Znâ€“Pd Ensembles for Highly Active and Chemoselective Semi-Hydrogenation of Acetylene. ACS Catalysis, 2016, 6, 1054-1061.	11.2	334
27	Synthesis and swelling properties of pH-sensitive semi-IPN superabsorbent hydrogels based on sodium alginate-g-poly(sodium acrylate) and polyvinylpyrrolidone. Carbohydrate Polymers, 2010, 80, 1028-1036.	10.2	321
28	Synthesis and characterization of chitosan-g-poly(acrylic acid)/attapulgite superabsorbent composites. Carbohydrate Polymers, 2007, 68, 367-374.	10.2	315
29	Hydrolysis of cellulose into glucose over carbons sulfonated at elevated temperatures. Chemical Communications, 2010, 46, 6935.	4.1	313
30	Removal of methylene blue from aqueous solution using chitosan-g-poly(acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (acid)/mo Engineering Aspects, 2008, 322, 47-53.	4.7	301
31	Unraveling the coordination structure-performance relationship in Pt1/Fe2O3 single-atom catalyst. Nature Communications, 2019, 10, 4500.	12.8	279
32	Adsorption properties of Congo Red from aqueous solution onto surfactant-modified montmorillonite. Journal of Hazardous Materials, 2008, 160, 173-180.	12.4	274
33	Synthesis of Thermally Stable and Highly Active Bimetallic Auâ^'Ag Nanoparticles on Inert Supports. Chemistry of Materials, 2009, 21, 410-418.	6.7	262
34	Coâ€“Nâ€“C Catalyst for Câ€“C Coupling Reactions: On the Catalytic Performance and Active Sites. ACS Catalysis, 2015, 5, 6563-6572.	11.2	260
35	Durable superhydrophobic/superoleophilic PDMS sponges and their applications in selective oil absorption and in plugging oil leakages. Journal of Materials Chemistry A, 2014, 2, 18281-18287.	10.3	259
36	Single-atom catalyst: a rising star for green synthesis of fine chemicals. National Science Review, 2018, 5, 653-672.	9.5	258

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37	Synthesis of ethylene glycol and terephthalic acid from biomass for producing PET. Green Chemistry, 2016, 18, 342-359.	9.0	254
38	Superhydrophobic kapok fiber oil-absorbent: Preparation and high oil absorbency. Chemical Engineering Journal, 2012, 213, 1-7.	12.7	253
39	Preparation and characterization of a novel pH-sensitive chitosan-g-poly (acrylic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 T sodium. Carbohydrate Polymers, 2009, 78, 731-737.	10.2	252
40	Studies on poly(acrylic acid)/attapulgite superabsorbent composite. I. Synthesis and characterization. Journal of Applied Polymer Science, 2004, 92, 1596-1603.	2.6	251
41	A new 3D mesoporous carbon replicated from commercial silica as a catalyst support for direct conversion of cellulose into ethylene glycol. Chemical Communications, 2010, 46, 862-864.	4.1	249
42	Fast removal of methylene blue from aqueous solution by adsorption onto chitosan-g-poly (acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	8.2	244
43	Production of Primary Amines by Reductive Amination of Biomassâ€Derived Aldehydes/Ketones. Angewandte Chemie - International Edition, 2017, 56, 3050-3054.	13.8	243
44	A Durable Nickel Singleâ€Atom Catalyst for Hydrogenation Reactions and Cellulose Valorization under Harsh Conditions. Angewandte Chemie - International Edition, 2018, 57, 7071-7075.	13.8	243
45	Enhanced adsorption of Methylene Blue from aqueous solution by chitosan-g-poly (acrylic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	6.1	235
46	Effect of kapok fiber treated with various solvents on oil absorbency. Industrial Crops and Products, 2012, 40, 178-184.	5.2	231
47	A review on bidirectional analogies between the photocatalysis and antibacterial properties of ZnO. Journal of Alloys and Compounds, 2019, 783, 898-918.	5.5	229
48	Efficient and Durable Au Alloyed Pd Single-Atom Catalyst for the Ullmann Reaction of Aryl Chlorides in Water. ACS Catalysis, 2014, 4, 1546-1553.	11.2	221
49	Dynamic Behavior of Single-Atom Catalysts in Electrocatalysis: Identification of Cu-N₃ as an Active Site for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2021, 143, 14530-14539.	13.7	218
50	Fast removal of copper ions from aqueous solution by chitosan-g-poly(acrylic acid)/attapulgite composites. Journal of Hazardous Materials, 2009, 168, 970-977.	12.4	216
51	Removal of Cu(II) from aqueous solution by adsorption onto acid-activated palygorskite. Journal of Hazardous Materials, 2007, 149, 346-354.	12.4	215
52	Kinetic and isothermal studies of lead ion adsorption onto palygorskite clay. Journal of Colloid and Interface Science, 2007, 307, 309-316.	9.4	206
53	Zeolite-supported metal catalysts for selective hydrodeoxygenation of biomass-derived platform molecules. Green Chemistry, 2019, 21, 3744-3768.	9.0	200
54	In situ generation of sodium alginate/hydroxyapatite nanocomposite beads as drug-controlled release matrices. Acta Biomaterialia, 2010, 6, 445-454.	8.3	198

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55	Strong metal-support interaction promoted scalable production of thermally stable single-atom catalysts. Nature Communications, 2020, 11, 1263.	12.8	198
56	Potential-Driven Restructuring of Cu Single Atoms to Nanoparticles for Boosting the Electrochemical Reduction of Nitrate to Ammonia. Journal of the American Chemical Society, 2022, 144, 12062-12071.	13.7	192
57	Adsorption kinetics of Cu(II) ions using N,O-carboxymethyl-chitosan. Journal of Hazardous Materials, 2006, 131, 103-111.	12.4	190
58	Nanocomposite of carboxymethyl cellulose and attapulgite as a novel pH-sensitive superabsorbent: Synthesis, characterization and properties. Carbohydrate Polymers, 2010, 82, 83-91.	10.2	188
59	Adsorption properties of congo red from aqueous solution onto N,O-carboxymethyl-chitosan. Bioresource Technology, 2008, 99, 1403-1408.	9.6	186
60	Cobalt Single Atoms on Tetrapyridomacrocyclic Support for Efficient Peroxymonosulfate Activation. Environmental Science & Technology, 2021, 55, 1242-1250.	10.0	185
61	Design of a Highly Active Ir/Fe(OH)_x Catalyst: Versatile Application of Ptâ€Group Metals for the Preferential Oxidation of Carbon Monoxide. Angewandte Chemie - International Edition, 2012, 51, 2920-2924.	13.8	183
62	Understanding the synergistic effects of gold bimetallic catalysts. Journal of Catalysis, 2013, 308, 258-271.	6.2	178
63	Adsorption of dyes onto palygorskite and its composites: A review. Journal of Environmental Chemical Engineering, 2016, 4, 1274-1294.	6.7	178
64	Synthesis of Highâ€Quality Diesel with Furfural and 2â€Methylfuran from Hemicellulose. ChemSusChem, 2012, 5, 1958-1966.	6.8	177
65	Adsorption characteristics of Cu(II) from aqueous solution onto poly(acrylamide)/attapulgite composite. Journal of Hazardous Materials, 2009, 165, 223-231.	12.4	175
66	UiO-66 derived Ru/ZrO₂@C as a highly stable catalyst for hydrogenation of levulinic acid to Î³-valerolactone. Green Chemistry, 2017, 19, 2201-2211.	9.0	174
67	A simple hydrothermal approach to modify palygorskite for high-efficient adsorption of Methylene blue and Cu(II) ions. Chemical Engineering Journal, 2015, 265, 228-238.	12.7	173
68	Pressure-Sensitive and Conductive Carbon Aerogels from Poplars Catkins for Selective Oil Absorption and Oil/Water Separation. ACS Applied Materials & Interfaces, 2017, 9, 18001-18007.	8.0	173
69	Synthesis and properties of clay-based superabsorbent composite. European Polymer Journal, 2005, 41, 1630-1637.	5.4	172
70	Utilization of starch and clay for the preparation of superabsorbent composite. Bioresource Technology, 2007, 98, 327-332.	9.6	170
71	Synthesis, characterization and swelling behaviors of sodium alginate-g-poly(acrylic acid)/sodium humate superabsorbent. Carbohydrate Polymers, 2009, 75, 79-84.	10.2	169
72	A Schiff base modified gold catalyst for green and efficient H₂ production from formic acid. Energy and Environmental Science, 2015, 8, 3204-3207.	30.8	166

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73	Selectivity Control for Cellulose to Diols: Dancing on Eggs. ACS Catalysis, 2017, 7, 1939-1954.	11.2	162
74	Adsorption of lead ions from aqueous solution by using carboxymethyl cellulose-g-poly (acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	8.2	158
75	Nepenthes Pitcher Inspired Antiâ€Wetting Silicone Nanofilaments Coatings: Preparation, Unique Antiâ€Wetting and Selfâ€Cleaning Behaviors. Advanced Functional Materials, 2014, 24, 1074-1080.	14.9	156
76	Ag nanoparticle-entrapped hydrogel as promising material for catalytic reduction of organic dyes. Journal of Materials Chemistry, 2012, 22, 16552.	6.7	155
77	Adsorption properties of crosslinked carboxymethyl-chitosan resin with Pb(II) as template ions. Journal of Hazardous Materials, 2006, 136, 930-937.	12.4	153
78	Efficient adsorption of methylene blue on an alginate-based nanocomposite hydrogel enhanced by organo-illite/smectite clay. Chemical Engineering Journal, 2013, 228, 132-139.	12.7	153
79	A comparative study about adsorption of natural palygorskite for methylene blue. Chemical Engineering Journal, 2015, 262, 390-398.	12.7	153
80	Adsorption behavior of Cu2+ from aqueous solutions onto starch-g-poly(acrylic acid)/sodium humate hydrogels. Desalination, 2010, 263, 170-175.	8.2	152
81	Temperature-controlled phase-transfer catalysis for ethylene glycol production from cellulose. Chemical Communications, 2012, 48, 7052.	4.1	152
82	Highly selective and robust single-atom catalyst Ru1/NC for reductive amination of aldehydes/ketones. Nature Communications, 2021, 12, 3295.	12.8	152
83	Ordered Crystalline Alumina Molecular Sieves Synthesized via a Nanocasting Route. Chemistry of Materials, 2006, 18, 5153-5155.	6.7	151
84	Catalytic conversion of cellulose to hexitols with mesoporous carbon supported Ni-based bimetallic catalysts. Green Chemistry, 2012, 14, 614.	9.0	151
85	Promotional effect of Pd single atoms on Au nanoparticles supported on silica for the selective hydrogenation of acetylene in excess ethylene. New Journal of Chemistry, 2014, 38, 2043.	2.8	151
86	Maximizing the Number of Interfacial Sites in Singleâ€Atom Catalysts for the Highly Selective, Solventâ€Free Oxidation of Primary Alcohols. Angewandte Chemie - International Edition, 2018, 57, 7795-7799.	13.8	151
87	Adsorption of methylene blue by kapok fiber treated by sodium chlorite optimized with response surface methodology. Chemical Engineering Journal, 2012, 184, 248-255.	12.7	150
88	Evaluation of ammonium removal using a chitosan-g-poly (acrylic acid)/rectorite hydrogel composite. Journal of Hazardous Materials, 2009, 171, 671-677.	12.4	148
89	Facile preparation of durable and robust superhydrophobic textiles by dip coating in nanocomposite solution of organosilanes. Chemical Communications, 2013, 49, 11509.	4.1	147
90	Research and application of kapok fiber as an absorbing material: A mini review. Journal of Environmental Sciences, 2015, 27, 21-32.	6.1	147

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91	One-pot fabrication of multifunctional superparamagnetic attapulgite/Fe₃O₄/polyaniline nanocomposites served as an adsorbent and catalyst support. Journal of Materials Chemistry A, 2015, 3, 281-289.	10.3	146
92	Synthesis of renewable high-density fuels using cyclopentanone derived from lignocellulose. Chemical Communications, 2014, 50, 2572.	4.1	143
93	Cerium-Oxide-Modified Nickel as a Non-Noble Metal Catalyst for Selective Decomposition of Hydrous Hydrazine to Hydrogen. ACS Catalysis, 2015, 5, 1623-1628.	11.2	143
94	Ultralight, compressible and multifunctional carbon aerogels based on natural tubular cellulose. Journal of Materials Chemistry A, 2016, 4, 2069-2074.	10.3	141
95	Valorization of Lignin to Simple Phenolic Compounds over Tungsten Carbide: Impact of Lignin Structure. ChemSusChem, 2017, 10, 523-532.	6.8	141
96	Hydrogenolysis of Glycerol to 1,3â€propanediol under Low Hydrogen Pressure over WO_xâ€Supported Single/Pseudoâ€Single Atom Pt Catalyst. ChemSusChem, 2016, 9, 784-790.	6.8	140
97	Preparation and Properties of Chitosan-g-poly(acrylic acid)/Montmorillonite Superabsorbent Nanocomposite via in Situ Intercalative Polymerization. Industrial & Engineering Chemistry Research, 2007, 46, 2497-2502.	3.7	139
98	Preparation and swelling properties of pH-sensitive composite hydrogel beads based on chitosan-g-poly (acrylic acid)/vermiculite and sodium alginate for diclofenac controlled release. International Journal of Biological Macromolecules, 2010, 46, 356-362.	7.5	138
99	Aqueous phase hydrogenation of levulinic acid to 1,4-pentanediol. Chemical Communications, 2014, 50, 1414.	4.1	136
100	Study on superabsorbent composites. IX: Synthesis, characterization and swelling behaviors of polyacrylamide/clay composites based on various clays. Reactive and Functional Polymers, 2007, 67, 737-745.	4.1	134
101	Green Synthesis and Characterization of Anisotropic Uniform Single-Crystal Î±-MoO3Nanostructures. Journal of Physical Chemistry C, 2007, 111, 2401-2408.	3.1	133
102	Attapulgite/bentonite interactions for methylene blue adsorption characteristics from aqueous solution. Chemical Engineering Journal, 2014, 237, 403-410.	12.7	133
103	One-step in situ fabrication of a granular semi-IPN hydrogel based on chitosan and gelatin for fast and efficient adsorption of Cu2+ ion. Colloids and Surfaces B: Biointerfaces, 2013, 106, 51-59.	5.0	132
104	Catalytic Conversion of Cellulose to Ethylene Glycol over a Lowâ€Cost Binary Catalyst of Raney Ni and Tungstic Acid. ChemSusChem, 2013, 6, 652-658.	6.8	132
105	Recent progress in dispersion of palygorskite crystal bundles for nanocomposites. Applied Clay Science, 2016, 119, 18-30.	5.2	130
106	A novel pH sensitive Nâ€succinyl chitosan/alginate hydrogel bead for nifedipine delivery. Biopharmaceutics and Drug Disposition, 2008, 29, 173-184.	1.9	128
107	Catalytically Active Rh Subâ€Nanoclusters on TiO₂ for CO Oxidation at Cryogenic Temperatures. Angewandte Chemie - International Edition, 2016, 55, 2820-2824.	13.8	127
108	Synthesis of 1,6-hexanediol from HMF over double-layered catalysts of Pd/SiO₂ + Irâ€“ReO_x/SiO₂ in a fixed-bed reactor. Green Chemistry, 2016, 18, 2175-2184.	9.0	127

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109	ZnAlâ€Hydrotalciteâ€Supported Au₂₅ Nanoclusters as Precatalysts for Chemoselective Hydrogenation of 3â€Nitrostyrene. Angewandte Chemie - International Edition, 2017, 56, 2709-2713.	13.8	127
110	Cooperative Pollutant Adsorption and Persulfate-Driven Oxidation on Hierarchically Ordered Porous Carbon. Environmental Science & Technology, 2019, 53, 10352-10360.	10.0	127
111	Glycol assisted synthesis of grapheneâ€“MnO2â€“polyaniline ternary composites for high performance supercapacitor electrodes. Physical Chemistry Chemical Physics, 2014, 16, 7872.	2.8	126
112	Study on superabsorbent composite XVI. Synthesis, characterization and swelling behaviors of poly(sodium acrylate)/vermiculite superabsorbent composites. European Polymer Journal, 2007, 43, 1691-1698.	5.4	124
113	Singleâ€Atom Catalysis in Mesoporous Photovoltaics: The Principle of Utility Maximization. Advanced Materials, 2014, 26, 8147-8153.	21.0	122
114	Effect of Various Dissolution Systems on the Molecular Weight of Regenerated Silk Fibroin. Biomacromolecules, 2013, 14, 285-289.	5.4	120
115	Catalytic Hydrogenation of Corn Stalk to Ethylene Glycol and 1,2-Propylene Glycol. Industrial & Engineering Chemistry Research, 2011, 50, 6601-6608.	3.7	119
116	One-Step Synthesis of Auâ€“Pd Alloy Nanodendrites and Their Catalytic Activity. Journal of Physical Chemistry C, 2013, 117, 12526-12536.	3.1	119
117	Synthesis of renewable diesel with hydroxyacetone and 2-methyl-furan. Chemical Communications, 2013, 49, 5727.	4.1	116
118	Structural and catalytic properties of supported Niâ€“Ir alloy catalysts for H2 generation via hydrous hydrazine decomposition. Applied Catalysis B: Environmental, 2014, 147, 779-788.	20.2	116
119	Adsorption behaviors of Congo red on the N,O-carboxymethyl-chitosan/montmorillonite nanocomposite. Chemical Engineering Journal, 2008, 143, 43-50.	12.7	115
120	Kapok fiber oriented-polyaniline nanofibers for efficient Cr(VI) removal. Chemical Engineering Journal, 2012, 191, 154-161.	12.7	115
121	Preparation, characterization and properties of superabsorbent nanocomposites based on natural guar gum and modified rectorite. Carbohydrate Polymers, 2009, 77, 891-897.	10.2	114
122	Aerobic oxidative coupling of alcohols and amines over Auâ€“Pd/resin in water: Au/Pd molar ratios switch the reaction pathways to amides or imines. Green Chemistry, 2013, 15, 2680.	9.0	114
123	Coated kapok fiber for removal of spilled oil. Marine Pollution Bulletin, 2013, 69, 91-96.	5.0	114
124	Controlling CO₂ Hydrogenation Selectivity by Metalâ€Supported Electron Transfer. Angewandte Chemie - International Edition, 2020, 59, 19983-19989.	13.8	114
125	Integrated Conversion of Cellulose to High-Density Aviation Fuel. Joule, 2019, 3, 1028-1036.	24.0	113
126	Dual-heteroatom-modified ordered mesoporous carbon: Hydrothermal functionalization, structure, and its electrochemical performance. Journal of Materials Chemistry, 2012, 22, 4963.	6.7	110

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127	Alkali activation of halloysite for adsorption and release of ofloxacin. Applied Surface Science, 2013, 287, 54-61.	6.1	110
128	Removal of Methyl Violet from aqueous solutions using poly (acrylic acid-co-acrylamide)/attapulgite composite. Journal of Environmental Sciences, 2010, 22, 7-14.	6.1	109
129	Superwetting Double-Layer Polyester Materials for Effective Removal of Both Insoluble Oils and Soluble Dyes in Water. ACS Applied Materials & Interfaces, 2014, 6, 11581-11588.	8.0	109
130	In-situ synthesis of single-atom Ir by utilizing metal-organic frameworks: An acid-resistant catalyst for hydrogenation of levulinic acid to Î³-valerolactone. Journal of Catalysis, 2019, 373, 161-172.	6.2	109
131	Synthesis and characterization of chitosan-g-poly(acrylic acid)/sodium humate superabsorbent. Carbohydrate Polymers, 2007, 70, 166-173.	10.2	107
132	Biomass into chemicals: One-pot production of furan-based diols from carbohydrates via tandem reactions. Catalysis Today, 2014, 234, 59-65.	4.4	107
133	Adsorption characteristics of Cd(II) from aqueous solution onto activated palygorskite. Separation and Purification Technology, 2007, 55, 157-164.	7.9	106
134	Swelling characteristics and drug delivery properties of nifedipineâ€loaded pH sensitive alginateâ€“chitosan hydrogel beads. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 86B, 493-500.	3.4	106
135	Controlled release of ofloxacin from chitosanâ€“montmorillonite hydrogel. Applied Clay Science, 2010, 50, 112-117.	5.2	104
136	Chitosan-g-poly(acrylic acid) hydrogel with crosslinked polymeric networks for Ni2+ recovery. Analytica Chimica Acta, 2011, 687, 193-200.	5.4	104
137	Synthesis of Diesel or Jet Fuel Range Cycloalkanes with 2-Methylfuran and Cyclopentanone from Lignocellulose. Energy & Fuels, 2014, 28, 5112-5118.	5.1	104
138	Study on superabsorbent composite. VI. Preparation, characterization and swelling behaviors of starch phosphate-graft-acrylamide/attapulgite superabsorbent composite. Carbohydrate Polymers, 2006, 65, 150-158.	10.2	103
139	Adsorption properties of carboxymethyl-chitosan and cross-linked carboxymethyl-chitosan resin with Cu(II) as template. Separation and Purification Technology, 2006, 49, 197-204.	7.9	103
140	Catalytic Conversion of Concentrated Glucose to Ethylene Glycol with Semicontinuous Reaction System. Industrial & Engineering Chemistry Research, 2013, 52, 9566-9572.	3.7	103
141	Highâ€Density and Thermally Stable Palladium Singleâ€Atom Catalysts for Chemoselective Hydrogenations. Angewandte Chemie - International Edition, 2020, 59, 21613-21619.	13.8	103
142	Study on superabsorbent composite. III. Swelling behaviors of polyacrylamide/attapulgite composite based on acidified attapulgite and organo-attapulgite. European Polymer Journal, 2005, 41, 2434-2442.	5.4	102
143	Effect of dry grinding on the microstructure of palygorskite and adsorption efficiency for methylene blue. Powder Technology, 2012, 225, 124-129.	4.2	100
144	In situ generation of sodium alginate/hydroxyapatite/halloysite nanotubes nanocomposite hydrogel beads as drug-controlled release matrices. Journal of Materials Chemistry B, 2013, 1, 6261.	5.8	100

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145	Fast removal of ammonium ion using a hydrogel optimized with response surface methodology. Chemical Engineering Journal, 2011, 171, 1201-1208.	12.7	98
146	Mechanical- and oil-durable superhydrophobic polyester materials for selective oil absorption and oil/water separation. Journal of Colloid and Interface Science, 2014, 413, 112-117.	9.4	98
147	Synthesis of diesel and jet fuel range alkanes with furfural and ketones from lignocellulose under solvent free conditions. Green Chemistry, 2014, 16, 4879-4884.	9.0	97
148	Removal of heavy metals using polyvinyl alcohol semi-IPN poly(acrylic acid)/tourmaline composite optimized with response surface methodology. Chemical Engineering Journal, 2010, 162, 186-193.	12.7	96
149	Surfactant effects on the microstructures of Fe3O4 nanoparticles synthesized by microemulsion method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 436, 675-683.	4.7	96
150	Ferric Oxide-Supported Pt Subnano Clusters for Preferential Oxidation of CO in H₂-Rich Gas at Room Temperature. ACS Catalysis, 2014, 4, 2113-2117.	11.2	96
151	Highly active Au1/Co3O4 single-atom catalyst for CO oxidation at room temperature. Chinese Journal of Catalysis, 2015, 36, 1505-1511.	14.0	93
152	Versatile Nickelâ€“Lanthanum(III) Catalyst for Direct Conversion of Cellulose to Glycols. ACS Catalysis, 2015, 5, 874-883.	11.2	92
153	Mimic nature, beyond nature: facile synthesis of durable superhydrophobic textiles using organosilanes. Journal of Materials Chemistry B, 2013, 1, 4756.	5.8	91
154	Hydrodeoxygenation of furans over Pd-FeOx/SiO2 catalyst under atmospheric pressure. Applied Catalysis B: Environmental, 2017, 201, 266-277.	20.2	91
155	Preparation of starch-graft-poly(acrylamide)/attapulgite superabsorbent composite. Journal of Applied Polymer Science, 2005, 98, 1351-1357.	2.6	90
156	Magnetically driven super durable superhydrophobic polyester materials for oil/water separation. Polymer Chemistry, 2014, 5, 2382.	3.9	90
157	Current fundamental and applied research into clay minerals in China. Applied Clay Science, 2016, 119, 3-7.	5.2	90
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