

Guoqing Guan

List of Publications by Year in descending order

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389
papers

16,109
citations

16411

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all docs

392
docs citations

392
times ranked

15576
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured catalysts for electrochemical water splitting: current state and prospects. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11973-12000.	5.2	823
2	Nanocellulose: Extraction and application. <i>Carbon Resources Conversion</i> , 2018, 1, 32-43.	3.2	613
3	Catalytic steam reforming of biomass tar: Prospects and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 58, 450-461.	8.2	471
4	Effect of the thickness of the Pt film coated on a counter electrode on the performance of a dye-sensitized solar cell. <i>Journal of Electroanalytical Chemistry</i> , 2004, 570, 257-263.	1.9	335
5	Nanostructured Co-based bifunctional electrocatalysts for energy conversion and storage: current status and perspectives. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18674-18707.	5.2	277
6	Ultrathin nanoflakes of cobalt-manganese layered double hydroxide with high reversibility for asymmetric supercapacitor. <i>Journal of Power Sources</i> , 2016, 306, 526-534.	4.0	257
7	Earth-abundant transition-metal-based bifunctional catalysts for overall electrochemical water splitting: A review. <i>Journal of Alloys and Compounds</i> , 2020, 819, 153346.	2.8	253
8	Small-scale biomass gasification systems for power generation ($\leq 200\text{ kW}$ class): A review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 117, 109486.	8.2	221
9	Molybdenum carbide as alternative catalyst for hydrogen production – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 75, 1101-1129.	8.2	198
10	Biodiesel production from waste cooking oil using calcined scallop shell as catalyst. <i>Energy Conversion and Management</i> , 2015, 95, 242-247.	4.4	174
11	Utmost limits of various solid electrolytes in all-solid-state lithium batteries: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 109, 367-385.	8.2	161
12	Generation of abundant defects in Mn-Co mixed oxides by a facile agar-gel method for highly efficient catalysis of total toluene oxidation. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119560.	10.8	160
13	Catalytic steam reforming of biomass tar over iron- or nickel-based catalyst supported on calcined scallop shell. <i>Applied Catalysis B: Environmental</i> , 2012, 115-116, 159-168.	10.8	153
14	In-situ intercalation of NiFe LDH materials: An efficient approach to improve electrocatalytic activity and stability for water splitting. <i>Journal of Power Sources</i> , 2017, 347, 193-200.	4.0	145
15	Transition metal-based catalysts for electrochemical water splitting at high current density: current status and perspectives. <i>Nanoscale</i> , 2021, 13, 12788-12817.	2.8	142
16	Synergistically Tuning Electronic Structure of Porous Mo_2C Spheres by Co Doping and Mo Vacancies Defect Engineering for Optimizing Hydrogen Evolution Reaction Activity. <i>Advanced Functional Materials</i> , 2020, 30, 2000561.	7.8	141
17	Flexible counter electrodes based on metal sheet and polymer film for dye-sensitized solar cells. <i>Thin Solid Films</i> , 2005, 472, 242-245.	0.8	140
18	Transesterification of vegetable oil to biodiesel fuel using acid catalysts in the presence of dimethyl ether. <i>Fuel</i> , 2009, 88, 81-86.	3.4	140

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19	Bifunctional CoNi/CoFe ₂ O ₄ /Ni foam electrodes for efficient overall water splitting at a high current density. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19221-19230.	5.2	140
20	Iron-based oxygen carriers in chemical looping conversions: A review. <i>Carbon Resources Conversion</i> , 2019, 2, 23-34.	3.2	137
21	Anode-free rechargeable lithium metal batteries: Progress and prospects. <i>Energy Storage Materials</i> , 2020, 32, 386-401.	9.5	136
22	Fabrication and evaluation of nanocellulose sponge for oil/water separation. <i>Carbohydrate Polymers</i> , 2018, 190, 184-189.	5.1	134
23	Fast co-pyrolysis of low density polyethylene and biomass residue for oil production. <i>Energy Conversion and Management</i> , 2016, 120, 422-429.	4.4	126
24	Low-temperature steam reforming of methanol to produce hydrogen over various metal-doped molybdenum carbide catalysts. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 258-266.	3.8	116
25	Upgrading of bio-oil from biomass pyrolysis over Cu-modified β -zeolite catalyst with high selectivity and stability. <i>Applied Catalysis B: Environmental</i> , 2016, 186, 166-172.	10.8	112
26	Green biodiesel production from waste cooking oil using an environmentally benign acid catalyst. <i>Waste Management</i> , 2016, 52, 367-374.	3.7	110
27	Production performance and numerical investigation of the 2017 offshore methane hydrate production test in the Nankai Trough of Japan. <i>Applied Energy</i> , 2019, 251, 113338.	5.1	110
28	A novel electroactive β -MnO ₂ /PPy/PSS core-shell nanorod coated electrode for selective recovery of lithium ions at low concentration. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13989-13996.	5.2	109
29	Photoreduction of carbon dioxide with water over K ₂ Ti ₆ O ₁₃ photocatalyst combined with Cu/ZnO catalyst under concentrated sunlight. <i>Applied Catalysis A: General</i> , 2003, 249, 11-18.	2.2	108
30	Performances characteristics of dye-sensitized solar cells based on counter electrodes with Pt films of different thickness. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 164, 179-182.	2.0	106
31	Reduction of carbon dioxide with water under concentrated sunlight using photocatalyst combined with Fe-based catalyst. <i>Applied Catalysis B: Environmental</i> , 2003, 41, 387-396.	10.8	105
32	Tri-potassium phosphate as a solid catalyst for biodiesel production from waste cooking oil. <i>Fuel Processing Technology</i> , 2009, 90, 520-524.	3.7	103
33	A novel 3D porous modified material with cage-like structure: fabrication and its demulsification effect for efficient oil/water separation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5895-5904.	5.2	97
34	Ultrastable coaxial cable-like superhydrophobic mesh with self-adaption effect: facile synthesis and oil/water separation application. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8080-8090.	5.2	95
35	A facile one-step way for extraction of nanocellulose with high yield by ball milling with ionic liquid. <i>Cellulose</i> , 2017, 24, 2083-2093.	2.4	95
36	B-site Mo-doped perovskite Pr _{0.4} Sr _{0.6} (Co _{0.2} Fe _{0.8}) _{1-x} Mo _x O ₃ (x=0, 0.05, 0.1 and 0.2) as electrode for symmetrical solid oxide fuel cell. <i>Journal of Power Sources</i> , 2015, 276, 347-356.	4.0	94

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37	Transesterification of Sunflower Oil with Methanol in a Microtube Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 1357-1363.	1.8	91
38	High-density circulating fluidized bed gasifier for advanced IGCC/IGFC Advantages and challenges. <i>Particuology</i> , 2010, 8, 602-606.	2.0	89
39	Self-healing hybrid nanocomposite anticorrosive coating from epoxy/modified nanosilica/perfluorooctyl triethoxysilane. <i>Progress in Organic Coatings</i> , 2017, 104, 173-179.	1.9	86
40	Facile Preparation of Ion-Imprinted Composite Film for Selective Electrochemical Removal of Nickel(II) Ions. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9543-9549.	4.0	85
41	Electroactive ion exchange materials: current status in synthesis, applications and future prospects. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6236-6258.	5.2	85
42	Bi-Doped SnO Nanosheets Supported on Cu Foam for Electrochemical Reduction of CO ₂ to HCOOH. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42114-42122.	4.0	85
43	Electrodeposition of Tin-Based Electrocatalysts with Different Surface Tin Species Distributions for Electrochemical Reduction of CO ₂ to HCOOH. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9360-9368.	3.2	85
44	Application of horizontal wells to the oceanic methane hydrate production in the Nankai Trough, Japan. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 62, 113-131.	2.1	83
45	Synthesis of biodiesel from sunflower oil at room temperature in the presence of various cosolvents. <i>Chemical Engineering Journal</i> , 2009, 146, 302-306.	6.6	82
46	In-situ catalytic upgrading of bio-oil derived from fast pyrolysis of lignin over high aluminum zeolites. <i>Fuel Processing Technology</i> , 2017, 167, 730-737.	3.7	82
47	Charge induced crystal distortion and morphology remodeling: Formation of Mn-CoP nanowire @ Mn-CoOOH nanosheet electrocatalyst with rich edge dislocation defects. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120172.	10.8	79
48	Photocatalytic H ₂ evolution under visible light irradiation on CdS/ETS-4 composite. <i>Chemical Physics Letters</i> , 2004, 385, 319-322.	1.2	77
49	Catalytic Activity and Stability of Nickel-Modified Molybdenum Carbide Catalysts for Steam Reforming of Methanol. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9485-9496.	1.5	77
50	Effect of biomass type on the performance of cogasification of low rank coal with biomass at relatively low temperatures. <i>Fuel</i> , 2014, 134, 414-419.	3.4	77
51	Effect of ball milling on the production of nanocellulose using mild acid hydrolysis method. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 60, 617-622.	2.7	77
52	A sandwich-type composite polymer electrolyte for all-solid-state lithium metal batteries with high areal capacity and cycling stability. <i>Journal of Membrane Science</i> , 2020, 596, 117739.	4.1	77
53	Steam co-gasification of brown seaweed and land-based biomass. <i>Fuel Processing Technology</i> , 2014, 120, 106-112.	3.7	75
54	Catalytic steam reforming of tar derived from steam gasification of sunflower stalk over ethylene glycol assisting prepared Ni/MCM-41. <i>Energy Conversion and Management</i> , 2015, 98, 359-368.	4.4	75

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55	Gas recovery enhancement from methane hydrate reservoir in the Nankai Trough using vertical wells. <i>Energy</i> , 2019, 166, 834-844.	4.5	75
56	Fabrication of NiO Microflake@NiFe-LDH Nanosheet Heterostructure Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2327-2334.	3.2	74
57	Simulation of pyrolysis in low rank coal particle by using DAEM kinetics model: Reaction behavior and heat transfer. <i>Fuel</i> , 2017, 207, 126-135.	3.4	73
58	Promoting effect of various biomass ashes on the steam gasification of low-rank coal. <i>Applied Energy</i> , 2014, 133, 282-288.	5.1	72
59	Highly efficient sulfonic MCM-41 catalyst for furfural production: Furan-based biofuel agent. <i>Fuel</i> , 2016, 174, 189-196.	3.4	70
60	Fabrication of three-dimensionally heterostructured rGO/WO ₃ ·0.5H ₂ O@Cu ₂ S electrodes for high-energy solid-state pouch-type asymmetric supercapacitor. <i>Chemical Engineering Journal</i> , 2021, 403, 126411.	6.6	70
61	Biomass-Derived N-Doped Carbon for Efficient Electrocatalytic CO ₂ Reduction to CO and Zn- ^{CO₂} Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3738-3747.	4.0	70
62	LaMnO ₃ /CdS nanocomposite: a new photocatalyst for hydrogen production from water under visible light irradiation. <i>Chemical Physics Letters</i> , 2003, 371, 563-567.	1.2	68
63	Mn doped CoP nanoparticle clusters: an efficient electrocatalyst for hydrogen evolution reaction. <i>Catalysis Science and Technology</i> , 2018, 8, 4407-4412.	2.1	68
64	Photocatalytic activity of CdS nanoparticles incorporated in titanium silicate molecular sieves of ETS-4 and ETS-10. <i>Applied Catalysis A: General</i> , 2005, 295, 71-78.	2.2	67
65	ZIF-8 incorporated polyether block amide membrane for phenol permselective pervaporation with high efficiency. <i>Separation and Purification Technology</i> , 2016, 166, 252-261.	3.9	67
66	Fabrication of a High-Energy Flexible All-Solid-State Supercapacitor Using Pseudocapacitive 2D-Ti ₃ C ₂ T _x -MXene and Battery-Type Reduced Graphene Oxide/Nickel-Cobalt Bimetal Oxide Electrode Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52749-52762.	4.0	66
67	Properties of A-site nonstoichiometry (Pr _{0.4} Sr _{0.6} Co _{0.2} Fe _{0.7} Nb _{0.1} O ₃) [±] (0.9x%±1.1) as symmetrical electrode material for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2014, 248, 163-171.	4.0	65
68	2-Fluoropyridine: A novel electrolyte additive for lithium metal batteries with high areal capacity as well as high cycling stability. <i>Chemical Engineering Journal</i> , 2020, 393, 124789.	6.6	65
69	Catalytic oxidation of volatile organic compound over cerium modified cobalt-based mixed oxide catalysts synthesized by electrodeposition method. <i>Applied Catalysis B: Environmental</i> , 2020, 271, 118941.	10.8	65
70	Synthesis of biodiesel fuel using an electrolysis method. <i>Chemical Engineering Journal</i> , 2009, 153, 159-163.	6.6	64
71	Reaction pathways and selectivity in chemo-catalytic conversion of biomass-derived carbohydrates to high-value chemicals: A review. <i>Fuel Processing Technology</i> , 2019, 196, 106162.	3.7	64
72	High selectivity and stability of Mg-doped Al-MCM-41 for in-situ catalytic upgrading fast pyrolysis bio-oil. <i>Energy Conversion and Management</i> , 2017, 142, 272-285.	4.4	62

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73	MOFs-derived transition metal sulfide composites for advanced sodium ion batteries. <i>Energy Storage Materials</i> , 2021, 41, 404-426.	9.5	62
74	Selectively catalytic upgrading of bio-oil to aromatic hydrocarbons over Zn, Ce or Ni-doped mesoporous rod-like alumina catalysts. <i>Journal of Molecular Catalysis A</i> , 2016, 421, 235-244.	4.8	59
75	Electrochemical technologies for lithium recovery from liquid resources: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111813.	8.2	59
76	Characterization of AlPO ₄ -type molecular sieving membranes formed on a porous γ -alumina tube. <i>Journal of Membrane Science</i> , 2003, 214, 191-198.	4.1	58
77	Fabrication of Cu(OH) ₂ @NiFe-layered double hydroxide catalyst array for electrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 14553-14561.	3.8	58
78	Clean coal technologies in Japan: A review. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 689-697.	1.7	57
79	Flow behaviors in the downer of a large-scale triple-bed combined circulating fluidized bed system with high solids mass fluxes. <i>Chemical Engineering Science</i> , 2011, 66, 4212-4220.	1.9	56
80	Hydrogen production by steam reforming of biomass tar over biomass char supported molybdenum carbide catalyst. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7974-7982.	3.8	56
81	CuO nanowire@Co ₃ O ₄ ultrathin nanosheet core-shell arrays: An effective catalyst for oxygen evolution reaction. <i>Electrochimica Acta</i> , 2017, 250, 77-83.	2.6	55
82	Bifunctional ionic liquid and conducting ceramic co-assisted solid polymer electrolyte membrane for quasi-solid-state lithium metal batteries. <i>Journal of Membrane Science</i> , 2019, 586, 122-129.	4.1	55
83	Common strategies for improving the performances of tin and bismuth-based catalysts in the electrocatalytic reduction of CO ₂ to formic acid/formate. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 143, 110952.	8.2	55
84	Synthesis and permeation properties of ion-exchanged ETS-4 tubular membranes. <i>Microporous and Mesoporous Materials</i> , 2001, 50, 109-120.	2.2	54
85	Nanostructured amorphous Fe ₂₉ Co ₂₇ Ni ₂₃ Si ₉ B ₁₂ high-entropy-alloy: an efficient electrocatalyst for oxygen evolution reaction. <i>Journal of Materials Science and Technology</i> , 2021, 68, 191-198.	5.6	54
86	Highly stable polypyrrole film prepared by unipolar pulse electro-polymerization method as electrode for electrochemical supercapacitor. <i>Synthetic Metals</i> , 2013, 175, 138-145.	2.1	52
87	Highly-efficient steam reforming of methanol over copper modified molybdenum carbide. <i>RSC Advances</i> , 2014, 4, 44175-44184.	1.7	51
88	Generation of edge dislocation defects in Co ₃ O ₄ catalysts: an efficient tactic to improve catalytic activity for oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10745-10750.	5.2	51
89	Prediction of flow behavior of the riser in a novel high solids flux circulating fluidized bed for steam gasification of coal or biomass. <i>Chemical Engineering Journal</i> , 2010, 164, 221-229.	6.6	50
90	Simultaneous separation of iodide and cesium ions from dilute wastewater based on PPy/PTCF and NiHCF/PTCF electrodes using electrochemically switched ion exchange method. <i>Separation and Purification Technology</i> , 2015, 139, 63-69.	3.9	50

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91	Photocatalytic hydrogen production from water over a LaMnO ₃ /CdS nanocomposite prepared by the reverse micelle method. <i>Journal of Materials Chemistry</i> , 2003, 13, 1186-1191.	6.7	48
92	Selective production of aromatic hydrocarbons from catalytic pyrolysis of biomass over Cu or Fe loaded mesoporous rod-like alumina. <i>RSC Advances</i> , 2016, 6, 50618-50629.	1.7	47
93	Catalytic Upgrading of Bio-Oil over Cu/MCM-41 and Cu/KIT-6 Prepared by β -Cyclodextrin-Assisted Coimpregnation Method. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3396-3407.	1.5	47
94	Nickel phosphate nanorod-enhanced polyethylene oxide-based composite polymer electrolytes for solid-state lithium batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 565, 110-118.	5.0	47
95	GAS PERMEATION PROPERTIES OF ION-EXCHANGED LTA-TYPE ZEOLITE MEMBRANES. <i>Separation Science and Technology</i> , 2001, 36, 2233-2245.	1.3	46
96	Steam reforming of tar derived from the steam pyrolysis of biomass over metal catalyst supported on zeolite. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 1022-1026.	2.7	46
97	Reaction intermediate species during the steam reforming of methanol over metal modified molybdenum carbide catalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 189, 12-18.	10.8	46
98	Enhancement of heavy metals removal efficiency from liquid wastes by using potential-triggered proton self-exchange effects. <i>Electrochimica Acta</i> , 2014, 130, 40-45.	2.6	44
99	Cobalt hydroxide [Co(OH) ₂] loaded carbon fiber flexible electrode for high performance supercapacitor. <i>RSC Advances</i> , 2015, 5, 56942-56948.	1.7	44
100	A Facile Potential-Induced In-Situ Ion Removal Trick: Fabrication of High-Selective Ion-Imprinted Film for Trivalent Yttrium Ion Separation. <i>Electrochimica Acta</i> , 2015, 176, 1313-1323.	2.6	42
101	Facile preparation of electroactive amorphous β -ZrP/PANI hybrid film for potential-triggered adsorption of Pb ²⁺ ions. <i>Journal of Hazardous Materials</i> , 2015, 289, 91-100.	6.5	42
102	Hydrogen-rich gas production from steam co-gasification of banana peel with agricultural residues and woody biomass. <i>Waste Management</i> , 2021, 125, 204-214.	3.7	42
103	A novel system of biomass-based hydrogen production by combining steam bio-oil reforming and chemical looping process. <i>Applied Energy</i> , 2020, 268, 115122.	5.1	42
104	Hydrogen production from sewage sludge solubilized in hot-compressed water using photocatalyst under light irradiation. <i>International Journal of Hydrogen Energy</i> , 2004, 29, 269-274.	3.8	41
105	A facile electro-synthesis method for the controllable preparation of electroactive nickel hexacyanoferrate/polyaniline hybrid films for H ₂ O ₂ detection. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 1073-1080.	4.0	41
106	Preparing hydrophobic nanocellulose-silica film by a facile one-pot method. <i>Carbohydrate Polymers</i> , 2016, 153, 266-274.	5.1	41
107	Formation and activity of activated carbon supported Ni ₂ P catalysts for atmospheric deoxygenation of waste cooking oil. <i>Fuel Processing Technology</i> , 2019, 185, 117-125.	3.7	41
108	Waste biomass valorization through production of xylose-based porous carbon microspheres for supercapacitor applications. <i>Waste Management</i> , 2020, 105, 492-500.	3.7	41

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109	A green method to increase yield and quality of bio-oil: ultrasonic pretreatment of biomass and catalytic upgrading of bio-oil over metal (Cu, Fe and/or Zn)/ γ -Al ₂ O ₃ . RSC Advances, 2015, 5, 83494-83503.	1.7	40
110	A novel electroactive PPy/HKUST-1 composite film-coated electrode for the selective recovery of lithium ions with low concentrations in aqueous solutions. Electrochimica Acta, 2019, 306, 35-44.	2.6	40
111	Fabrication of CuO nanowires@NiMnO nanosheets core@shell-type electrocatalysts: crucial roles of defect modification and valence states for overall water electrolysis. Journal of Materials Chemistry A, 2020, 8, 16463-16476.	5.2	40
112	3D investigation of the effects of multiple-well systems on methane hydrate production in a low-permeability reservoir. Journal of Natural Gas Science and Engineering, 2020, 76, 103213.	2.1	40
113	Steam reforming of methanol for hydrogen production over nanostructured wire-like molybdenum carbide catalyst. International Journal of Hydrogen Energy, 2014, 39, 18803-18811.	3.8	39
114	Oil production from mild pyrolysis of low-rank coal in molten salts media. Applied Energy, 2015, 154, 944-950.	5.1	39
115	An electrochemically-switched BPEI-CQD/PPy/PSS membrane for selective separation of dilute copper ions from wastewater. Chemical Engineering Journal, 2017, 328, 293-303.	6.6	39
116	In-situ catalytic upgrading of bio-oil derived from fast pyrolysis of sunflower stalk to aromatic hydrocarbons over bifunctional Cu-loaded HZSM-5. Journal of Analytical and Applied Pyrolysis, 2021, 155, 105079.	2.6	39
117	Reduction of aqueous CO ₂ at ambient temperature using zero-valent iron-based composites. Green Chemistry, 2003, 5, 630.	4.6	38
118	Hydrodynamic characteristics of a large-scale triple-bed combined circulating fluidized bed. Powder Technology, 2011, 209, 1-8.	2.1	38
119	Steam reforming of tar derived from Fallopia Japonica stem over its own chars prepared at different conditions. Fuel, 2014, 132, 204-210.	3.4	38
120	A novel H _{1.6} Mn _{1.6} O ₄ /reduced graphene oxide composite film for selective electrochemical capturing lithium ions with low concentration. Separation and Purification Technology, 2019, 226, 59-67.	3.9	38
121	Catalytic upgrading of bio-oils over high alumina zeolites. Renewable Energy, 2019, 136, 1304-1310.	4.3	38
122	Numerical investigation on the long-term gas production behavior at the 2017 Shenhu methane hydrate production site. Applied Energy, 2021, 285, 116466.	5.1	38
123	One-step unipolar pulse electrodeposition of nickel hexacyanoferrate/chitosan/carbon nanotubes film and its application in hydrogen peroxide sensor. Sensors and Actuators B: Chemical, 2012, 162, 353-360.	4.0	37
124	Selective catalytic conversion of bio-oil over high-silica zeolites. Bioresource Technology, 2015, 179, 518-523.	4.8	37
125	Novel SeS ₂ doped Li ₂ S-P ₂ S ₅ solid electrolyte with high ionic conductivity for all-solid-state lithium sulfur batteries. Chemical Engineering Journal, 2020, 380, 122419.	6.6	37
126	Crystal growth of cyclodextrin-based metal-organic framework with inclusion of ferulic acid. Crystal Research and Technology, 2015, 50, 556-559.	0.6	36

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127	A polypyrrole hollow nanosphere with ultra-thin wrinkled shell: Synergistic trapping of sulfur in Lithium-Sulfur batteries with excellent elasticity and buffer capability. <i>Electrochimica Acta</i> , 2018, 271, 67-76.	2.6	36
128	Three-dimensional interconnected cobalt sulfide foam: Controllable synthesis and application in supercapacitor. <i>Electrochimica Acta</i> , 2019, 317, 551-561.	2.6	36
129	A high-performance electroactive PPy/rGO/NiCo-LDH hybrid film for removal of dilute dodecyl sulfonate ions. <i>Electrochimica Acta</i> , 2020, 331, 135288.	2.6	36
130	Bilateral growth of monoclinic WO ₃ and 2D Ti ₃ C ₂ T _x on 3D free-standing hollow graphene foam for all-solid-state supercapacitor. <i>Chemical Engineering Journal</i> , 2021, 421, 127883.	6.6	36
131	Extraction of Nanocellulose from Raw Apple Stem. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2015, 94, 787-793.	0.2	35
132	Mild catalytic depolymerization of low rank coals: a novel way to increase tar yield. <i>RSC Advances</i> , 2015, 5, 2493-2503.	1.7	35
133	Facile fabrication of CuO microcube@Fe ³⁺ /Co ₃ O ₄ nanosheet array as a high-performance electrocatalyst for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21740-21749.	5.2	35
134	Cu ₂ O Nanoparticle Hyper-Cross-Linked Polymer Composites for the Visible-Light Photocatalytic Degradation of Methyl Orange. <i>ACS Applied Nano Materials</i> , 2019, 2, 2706-2712.	2.4	35
135	A sea anemone-like CuO/Co ₃ O ₄ composite: an effective catalyst for electrochemical water splitting. <i>Chemical Communications</i> , 2015, 51, 15012-15014.	2.2	34
136	Reaction decoupling in thermochemical fuel conversion and technical progress based on decoupling using fluidized bed. <i>Carbon Resources Conversion</i> , 2018, 1, 109-125.	3.2	34
137	Preferential CO oxidation over catalysts with well-defined inverse opal structure in microchannels. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 797-801.	3.8	33
138	Numerical studies of solid-solid mixing behaviors in a downer reactor for coal pyrolysis. <i>Powder Technology</i> , 2014, 253, 722-732.	2.1	33
139	Biodiesel production from Hevea brasiliensis oil using SO ₃ H-MCM-41 catalyst. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 47-55.	3.3	33
140	Electrical double layer ion transport with cell voltage-pulse potential coupling circuit for separating dilute lead ions from wastewater. <i>Journal of Membrane Science</i> , 2017, 535, 20-27.	4.1	33
141	Potential-induced reversible uptake/release of perchlorate from wastewater by polypyrrole@CoNi-layered double hydroxide modified electrode with proton-ligand effect. <i>Journal of Colloid and Interface Science</i> , 2018, 523, 159-168.	5.0	33
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