

Guoqing Guan

List of Publications by Year in descending order

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papers

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16411

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Steam gasification of marine biomass and its biochars for hydrogen-rich gas production. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 8641-8650.	2.9	9
2	High Catalytic Activity of a Nickel Phosphide Nanocatalyst Supported on Melamine-Doped Activated Carbon for Deoxygenation. <i>Topics in Catalysis</i> , 2023, 66, 22-33.	1.3	1
3	MXene-copper oxide/sulfonated polyether ether ketone as a hybrid composite proton exchange membrane in electrochemical water electrolysis. <i>Catalysis Today</i> , 2023, 407, 96-106.	2.2	11
4	Improving advantages and reducing risks in increasing cyclone height via an apex cone to grasp vortex end. <i>Chinese Journal of Chemical Engineering</i> , 2023, 54, 136-143.	1.7	1
5	A novel photo-assisted electrochemically switched ion exchange technology for selective recovery of bromide ions. <i>Chemical Engineering Journal</i> , 2022, 427, 131693.	6.6	18
6	Microwave-assisted synthesis of manganese oxide catalysts for total toluene oxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 100-110.	5.0	28
7	Pilot verification of a two-stage fluidized bed gasifier with a downer pyrolyzer using oxygen-rich air. <i>Fuel</i> , 2022, 307, 121816.	3.4	10
8	Trace holmium assisting delaminated OMS-2 catalysts for total toluene oxidation at low temperature. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1662-1675.	5.0	13
9	Electrochemical technologies for lithium recovery from liquid resources: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111813.	8.2	59
10	An electrochemically switched ion exchange I^{\pm} -ZrP/PPy film as a synergistically catalytic and anchoring material towards lithium-sulfur battery design. <i>Electrochimica Acta</i> , 2022, 403, 139609.	2.6	6
11	Facile fabrication of O vacancy rich CuVOx nanobelt@NiO nanosheet array for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2022, 405, 139623.	2.6	5
12	An electrochemically induced dual-site adsorption composite film of Ni-MOF derivative/NiCo LDH for selective bromide-ion extraction. <i>Separation and Purification Technology</i> , 2022, 283, 120175.	3.9	22
13	Fabrication of fluoroalkylsilane/zeolitic imidazolate framework composites for highly efficient superhydrophobic coating. <i>Carbon Resources Conversion</i> , 2022, 5, 26-34.	3.2	2
14	Downer reactor simulation and its application on coal pyrolysis: A review. <i>Carbon Resources Conversion</i> , 2022, 5, 35-51.	3.2	10
15	Zn-VOx-Co nanosheets with amorphous/crystalline heterostructure for highly efficient hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2022, 432, 134329.	6.6	26
16	Metal organic frameworks derived CoS2/NiS2 heterostructure toward high-performance sodium storage anode materials. <i>Chemical Engineering Journal</i> , 2022, 431, 134091.	6.6	28
17	Synthesis and Characterization of Hydrochar and Bio-oil from Hydrothermal Carbonization of Sargassum sp. using Choline Chloride (ChCl) Catalyst. <i>International Journal of Renewable Energy Development</i> , 2022, 11, 403-412.	1.2	9
18	Mesoporous catalysts for catalytic oxidation of volatile organic compounds: preparations, mechanisms and applications. <i>Reviews in Chemical Engineering</i> , 2022, .	2.3	1

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19	Modelling of pseudocapacitive ion adsorption of electrochemically switched ion exchange based on electroactive site concentration. <i>Separation and Purification Technology</i> , 2022, 286, 120451.	3.9	3
20	Early Prognostics of Lithium-Ion Battery Pack Health. <i>Sustainability</i> , 2022, 14, 2313.	1.6	3
21	An organosulfide-based energetic liquid as the catholyte in high-energy density lithium metal batteries for large-scale grid energy storage. <i>Nano Research</i> , 2022, 15, 6138-6147.	5.8	5
22	Selective Hydrogenation of Naphthalene to Decalin Over Surface-Engineered MoC Based on Synergy between Pd Doping and Mo Vacancy Generation. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	15
23	Zeolite-based cracking catalysts for bio-oil upgrading: A critical review. , 2022, 1, 167-183.		4
24	An electroactive BiOBr@PPy hybrid film with synergistic effect for electrochemically switched capture of bromine ions from aqueous solutions. <i>Separation and Purification Technology</i> , 2022, 290, 120845.	3.9	11
25	Multi-Hierarchical Porous Mn-Doped CoP Catalyst on Nickel Phosphide Foam for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2022, 5, 149-158.	2.5	14
26	Foldable nano-Li ₂ MnO ₃ integrated composite polymer solid electrolyte for all-solid-state Li metal batteries with stable interface. <i>Journal of Colloid and Interface Science</i> , 2022, 621, 232-240.	5.0	4
27	ZIF-8 derived carbon with confined sub-nanometer pores for electrochemically selective separation of chloride ions. <i>Separation and Purification Technology</i> , 2022, 295, 121222.	3.9	12
28	A flexible Li ₂ SnO ₃ -coupled PEO-based single-ion conducting composite solid-state electrolyte for highly-stable Li metal batteries. <i>Journal of Alloys and Compounds</i> , 2022, 911, 165138.	2.8	4
29	Selective dehydrogenation of aqueous formic acid over multifunctional Mo ₂ N catalysts at a temperature lower than 100 °C. <i>Applied Catalysis B: Environmental</i> , 2022, 313, 121445.	10.8	16
30	Phase-transition engineering induced lattice contraction of the molybdenum carbide surface for highly efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11414-11425.	5.2	16
31	Enhanced electroactivity of BiOCl/PPy hybrid film with amnestic lattice site for synergistically efficient selective uptake/release of chloride ions. <i>Electrochimica Acta</i> , 2022, 422, 140508.	2.6	1
32	Power Production from Biomass. , 2022, , .		0
33	Electrodeposited iodide ions imprinted polypyrrole@bismuth oxyiodide film for an electrochemically switched renewable extractor towards iodide ions. <i>Chinese Journal of Chemical Engineering</i> , 2022, 49, 161-169.	1.7	2
34	An electroactive montmorillonite/polypyrrole ion exchange film: Ultrahigh uptake capacity and ion selectivity for rapid removal of lead ions. <i>Journal of Hazardous Materials</i> , 2022, 437, 129366.	6.5	15
35	Trimetallic sulfides derived from tri-metal-organic frameworks as anode materials for advanced sodium ion batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 248-256.	5.0	11
36	Prussian Blue Analogue-Derived Cobalt Sulfide Nanoparticles Embedded in N/S-Codoped Carbon Frameworks as a High-Performance Anode Material for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 8697-8708.	2.5	11

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37	A two-stage circulated fluidized bed process to minimize tar generation of biomass gasification for fuel gas production. <i>Applied Energy</i> , 2022, 323, 119639.	5.1	21
38	Hydro-upgrading of low-rank oil with CO ₂ -containing H ₂ gas generated online from methanol steam reforming. <i>Fuel</i> , 2022, 327, 125172.	3.4	2
39	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
40	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
41	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
42	Electrochemically triggered iodide-vacancy BiOI film for selective extraction of iodide ion from aqueous solutions. <i>Separation and Purification Technology</i> , 2021, 259, 118120.	3.9	19
43	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
44	Data-driven prediction of biomass pyrolysis pathways toward phenolic and aromatic products. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104836.	3.3	10
45	Production of bio-jet fuel through ethylene oligomerization using NiAlKIT-6 as a highly efficient catalyst. <i>Fuel</i> , 2021, 287, 119831.	3.4	16
46	Steam gasification of co-pyrolysis chars from various types of biomass. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3640-3650.	3.8	24
47	A biomass-based small-scale power generation system with energy/exergy recuperation. <i>Energy Conversion and Management</i> , 2021, 227, 113623.	4.4	22
48	Numerical evaluation of free gas accumulation behavior in a reservoir during methane hydrate production using a multiple-well system. <i>Energy</i> , 2021, 218, 119560.	4.5	10
49	A novel vanadium-mediated MoS ₂ with metallic behavior for sodium ion batteries: Achieving fast Na ⁺ diffusion to enhance electrochemical kinetics. <i>Chemical Engineering Journal</i> , 2021, 417, 128107.	6.6	27
50	A scalable three-dimensional porous MnO ₂ /rGO/Ca-alginate composite electroactive film with potential-responsive ion-pumping effect for selective recovery of lithium ions. <i>Separation and Purification Technology</i> , 2021, 259, 118111.	3.9	29
51	Fluoropyridine family: Bifunction as electrolyte solvent and additive to achieve dendrites-free lithium metal batteries. <i>Journal of Materials Science and Technology</i> , 2021, 74, 119-127.	5.6	14
52	Process analysis of a two-stage fluidized bed gasification system with and without pre-drying of high-water content coal. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 1498-1509.	0.9	4
53	Enhanced adsorptive composite foams for copper (II) removal utilising bio-renewable polyisoprene-functionalised carbon derived from coconut shell waste. <i>Scientific Reports</i> , 2021, 11, 1459.	1.6	7
54	Macroalgae-derived rare sugars: Applications and catalytic synthesis. <i>Carbon Resources Conversion</i> , 2021, 4, 150-163.	3.2	13

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55	Simultaneous assistance of molecular oxygen and mesoporous SO ₃ H alumina for a selective conversion of biomass-derived furfural to Î³-valerolactone without an external addition of H ₂ . Sustainable Energy and Fuels, 2021, 5, 4041-4052.	2.5	6
56	Two-dimensional Ti ₃ C ₂ TX-nanosheets/Cu ₂ O composite as a high-performance photocatalyst for decomposition of tetracycline. Carbon Resources Conversion, 2021, 4, 197-204.	3.2	17
57	Transition metal-based catalysts for electrochemical water splitting at high current density: current status and perspectives. Nanoscale, 2021, 13, 12788-12817.	2.8	142
58	Generation of oxygen vacancies in NiFe LDH electrocatalysts by ultrasound for enhancing the activity toward oxygen evolution reaction. Carbon Resources Conversion, 2021, 4, 76-83.	3.2	16
59	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
60	Hydrogen-rich gas production from steam co-gasification of banana peel with agricultural residues and woody biomass. Waste Management, 2021, 125, 204-214.	3.7	42
61	A conductive chlorine ion-imprinted polymer threaded in metal-organic frameworks for electrochemically selective separation of chloride ions. Chemical Engineering Journal, 2021, 412, 128576.	6.6	33
62	Controllable Synthesis of Novel Orderly Layered VMoS ₂ Anode Materials with Super Electrochemical Performance for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 26046-26054.	4.0	18
63	Preparation of various hierarchical HZSM-5 based catalysts for in-situ fast upgrading of bio-oil. Renewable Energy, 2021, 169, 283-292.	4.3	27
64	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
65	Highly efficient removal of dyes from wastewater over a wide range of pH value by a self-adaption adsorbent. Journal of Molecular Liquids, 2021, 331, 115719.	2.3	12
66	A novel unipolar pulsepotential oscillation system based on HKUST-1(C)@CoAl LDH film for selective separation of dodecyl sulfonate ions. Separation and Purification Technology, 2021, 265, 118488.	3.9	8
67	An electroactive montmorillonite/polyaniline nanocomposite film: Superfast ion transport and ultra-affinity ion recognition for rapid and selective separation of Pb ²⁺ ions. Chemical Engineering Journal, 2021, 413, 127750.	6.6	13
68	Common strategies for improving the performances of tin and bismuth-based catalysts in the electrocatalytic reduction of CO ₂ to formic acid/formate. Renewable and Sustainable Energy Reviews, 2021, 143, 110952.	8.2	55
69	A small-scale power generation system based on biomass direct chemical looping process with organic rankine cycle. Chemical Engineering and Processing: Process Intensification, 2021, 163, 108361.	1.8	6
70	Gas Production Enhancement from a Multilayered Hydrate Reservoir in the South China Sea by Hydraulic Fracturing. Energy & Fuels, 2021, 35, 12104-12118.	2.5	30
71	Multi-fluid Eulerian simulation of binary particles mixing and gas-solids contacting in high solids-flux downer reactor equipped with a lateral particle feeding nozzle. Chinese Journal of Chemical Engineering, 2021, 35, 152-162.	1.7	4
72	Centrifugal force caused high-density rotating downward quasi-plug flow in cyclone reactors. Chemical Engineering Science: X, 2021, 11, 100101.	1.5	1

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73	Mass transport and pervaporation recovery of aniline with high-purity from dilute aqueous solution by PEBA/PVDF composite membranes. Separation and Purification Technology, 2021, 268, 118708.	3.9	8
74	Adsorptive removal and photocatalytic decomposition of cationic dyes on niobium oxide with deformed orthorhombic structure. Journal of Hazardous Materials, 2021, 415, 125635.	6.5	26
75	One-step synthesized CoNi-embedded N-doped carbon nanotubes as sulfur host to synergistically immobilize the discharge products in lithium-sulfur batteries. Journal of Alloys and Compounds, 2021, 874, 159952.	2.8	11
76	Charge induced crystal distortion and morphology remodeling: Formation of Mn-CoP nanowire @ Mn-CoOOH nanosheet electrocatalyst with rich edge dislocation defects. Applied Catalysis B: Environmental, 2021, 292, 120172.	10.8	79
77	MOFs-derived transition metal sulfide composites for advanced sodium ion batteries. Energy Storage Materials, 2021, 41, 404-426.	9.5	62
78	Steam co-gasification of Japanese cedarwood and its commercial biochar for hydrogen-rich gas production. International Journal of Hydrogen Energy, 2021, 46, 34587-34598.	3.8	20
79	Development of high flux dynamic membrane based on hydrodynamic and mass transfer for enhanced antifouling property and dye removal. Journal of Environmental Chemical Engineering, 2021, 9, 106283.	3.3	0
80	Numerical evaluation on the effect of horizontal-well systems on the long-term gas hydrate production behavior at the second Shenhu test site. Journal of Natural Gas Science and Engineering, 2021, 95, 104200.	2.1	13
81	Carbon-based electroactive ion exchange materials: Ultrahigh removal efficiency and ion selectivity for rapid removal of Cs ⁺ ions. Separation and Purification Technology, 2021, 274, 119056.	3.9	13
82	An electrically switched ion exchange system with self-electrical-energy recuperation for efficient and selective LiCl separation from brine lakes. Separation and Purification Technology, 2021, 274, 118995.	3.9	21
83	In-situ catalytic upgrading of bio-oil from rapid pyrolysis of biomass over hollow HZSM-5 with mesoporous shell. Bioresource Technology, 2021, 341, 125874.	4.8	20
84	Catalyst Ni-Mo/Al ₂ O ₃ promoted with infrared heating calcination for hydrodesulfurization of shale oil. Fuel, 2021, 305, 121537.	3.4	6
85	Biomass-Derived N-Doped Carbon for Efficient Electrocatalytic CO ₂ Reduction to CO and Zn- ^{CO} Batteries. ACS Applied Materials & Interfaces, 2021, 13, 3738-3747.	4.0	70
86	MXene potassium titanate nanowire/sulfonated polyether ether ketone (SPEEK) hybrid composite proton exchange membrane for photocatalytic water splitting. RSC Advances, 2021, 11, 9327-9335.	1.7	7
87	Coal Gasification with Exergy Recuperation and CO ₂ Recovery. , 2021, , 593-619.		1
88	Editorial: Advances in the Bio- and Chemo-Catalytic Conversion of Biomass Components Into Biofuels and Value-Added Chemicals. Frontiers in Bioengineering and Biotechnology, 2021, 9, 769995.	2.0	1
89	Rapid Transformation of Furfural to Biofuel Additive Ethyl Levulinate with In Situ Suppression of Humins Promoted by an Acidic-Oxygen Environment. ACS Sustainable Chemistry and Engineering, 2021, 9, 14170-14179.	3.2	11
90	One-pot upgrading of coconut coir lignin over high-efficiency Ni ₂ P catalysts. Journal of Environmental Chemical Engineering, 2021, 9, 106702.	3.3	4

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91	Design of Minimal Waste Process for Levulinic and Formic Acids Production from Glucose by Using Choline Chloride Added Aluminum Chloride Catalyst System. <i>Journal of Chemical Engineering of Japan</i> , 2021, 54, 620-629.	0.3	2
92	2D-on-2D core-shell Co ₃ (PO ₄) ₂ stacked micropetals@Co ₂ Mo ₃ O ₈ nanosheets and binder-free 2D CNT@Ti ₃ C ₂ T _X MXene electrodes for high-energy solid-state flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26135-26148.	5.2	22
93	High selective monoaromatic hydrocarbon production via integrated pyrolysis and catalytic upgrading of Napier grass over Ca/Ni/boronic acid/KIT-6. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 423-434.	2.9	4
94	Steam gasification of biochars derived from pruned apple branch with various pyrolysis temperatures. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18321-18330.	3.8	18
95	Iodide ion trapping polypyrrole film: Selective capture of iodide ions by electrochemically switched ion extraction (ESIE) process. <i>Chemical Engineering Journal</i> , 2020, 380, 122529.	6.6	26
96	Small-scale biomass gasification systems for power generation (<200 kW class): A review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 117, 109486.	8.2	221
97	Quasicatalytic and catalytic selective oxidation of methane to methanol over solid materials: a review on the roles of water. <i>Catalysis Reviews - Science and Engineering</i> , 2020, 62, 313-345.	5.7	14
98	Novel SeS ₂ doped Li ₂ S-P ₂ S ₅ solid electrolyte with high ionic conductivity for all-solid-state lithium sulfur batteries. <i>Chemical Engineering Journal</i> , 2020, 380, 122419.	6.6	37
99	A novel electrical double-layer ion transport carbon-based membrane with 3D porous structure: High permselectivity for dilute zinc ion separation. <i>Chemical Engineering Journal</i> , 2020, 380, 122413.	6.6	12
100	3D visualization of methane hydrate production behaviors under actual wellbore conditions. <i>Journal of Petroleum Science and Engineering</i> , 2020, 185, 106645.	2.1	8
101	Potential-responsive ions-selectively capture effect for efficient removal of copper ions from wastewater. <i>Electrochimica Acta</i> , 2020, 330, 135249.	2.6	18
102	An electrochemically switched ion exchange process with self-electrical-energy recuperation for desalination. <i>Separation and Purification Technology</i> , 2020, 239, 116521.	3.9	22
103	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
104	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
105	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
106	Selective production of green solvent (isoamyl acetate) from fusel oil using a sulfonic acid-functionalized KIT-6 catalyst. <i>Molecular Catalysis</i> , 2020, 484, 110724.	1.0	9
107	One-dimensional CoMoS ₄ nanorod arrays as an efficient electrocatalyst for hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153245.	2.8	8
108	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

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109	Catalytic pyrolysis of wasted fishing net over calcined scallop shells: Analytical Py-GC/MS study. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 146, 104750.	2.6	18
110	A drag model considering the particle size distribution via multi-subgrid for the simulation of downer. <i>Chemical Engineering Science</i> , 2020, 214, 115363.	1.9	7
111	Catalytic pyrolysis of Napier grass with nickel-copper core-shell bi-functional catalyst. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 145, 104745.	2.6	14
112	Gentle hydrotreatment of shale oil in fixed bed over Ni-Mo/Al ₂ O ₃ for upgrading. <i>Fuel</i> , 2020, 281, 118495.	3.4	13
113	Fabrication of CuO _x nanowires@NiMnO _x nanosheets core@shell-type electrocatalysts: crucial roles of defect modification and valence states for overall water electrolysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16463-16476.	5.2	40
114	Defect-engineering of tin oxide via (Cu, N) co-doping for electrocatalytic and photocatalytic CO ₂ reduction into formate. <i>Chemical Engineering Science</i> , 2020, 227, 115947.	1.9	16
115	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
116	Anode-free rechargeable lithium metal batteries: Progress and prospects. <i>Energy Storage Materials</i> , 2020, 32, 386-401.	9.5	136
117	Lithium-Salt-Containing Ionic Liquid-Incorporated Al-Layered Double Hydroxide-Based Solid Electrolyte with High-Performance and Safety in Solid-State Lithium Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12378-12387.	3.2	16
118	Coral reef-like MoS ₂ microspheres with 1T/2H phase as high-performance anode material for sodium ion batteries. <i>Journal of Materials Science</i> , 2020, 55, 14389-14400.	1.7	16
119	An electrochemically switchable triiodide-ion-imprinted PPy membrane for highly selective recognition and continuous extraction of iodide. <i>Separation and Purification Technology</i> , 2020, 251, 117312.	3.9	8
120	Simulation of gas-solid flow behavior in downers using a new drag model based on the spatial superposition assumption. <i>Powder Technology</i> , 2020, 374, 304-313.	2.1	7
121	Formic Acid as a Bio-CO Carrier: Selective Dehydration with ¹³ -Mo ₂ N Catalysts at Low Temperatures. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13956-13963.	3.2	7
122	Facile In Situ 5-EMF Synthesis and Extraction Processes from Catalytic Conversion of Sugar under Sustainable Long-Life Cycle. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14867-14876.	3.2	16
123	Carbon sequestration through hydrothermal carbonization of expired fresh milk and its application in supercapacitor. <i>Biomass and Bioenergy</i> , 2020, 143, 105836.	2.9	30
124	Synthesis of <i>p</i> -menthane-3,8-diol from citronellal over lignin-derived carbon acid catalysts. <i>New Journal of Chemistry</i> , 2020, 44, 10441-10447.	1.4	1
125	A novel electrochemically switched ion exchange system for phenol recovery and regeneration of NaOH from sodium phenolate wastewater. <i>Separation and Purification Technology</i> , 2020, 248, 117125.	3.9	10
126	Swelling mechanism of PEBA-2533 membrane for pervaporation separation of high boiling point organic compounds: Experiment and molecular dynamics simulation. <i>Separation and Purification Technology</i> , 2020, 245, 116851.	3.9	17

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127	Low content of samarium doped CeO ₂ oxide catalysts derived from metal organic framework precursor for toluene oxidation. <i>Molecular Catalysis</i> , 2020, 492, 111027.	1.0	20
128	Study of a recycling reaction system for catalytic transformation of biomass-based carbohydrates <i>via</i> acidic-polar biphasic conditions. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 1405-1409.	1.9	2
129	Simultaneously enhancing the thermal stability and electrochemical performance of solid polymer electrolytes by incorporating rod-like Zn ₂ (OH)BO ₃ particles. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19601-19610.	3.8	9
130	Stable hetero-metal doped Co-based catalysts prepared by electrodeposition method for low temperature combustion of toluene. <i>Carbon Resources Conversion</i> , 2020, 3, 95-103.	3.2	5
131	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
132	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
133	Heterostructured graphitic-carbon-nitride-nanosheets/copper(I) oxide composite as an enhanced visible light photocatalyst for decomposition of tetracycline antibiotics. <i>Separation and Purification Technology</i> , 2020, 250, 117238.	3.9	22
134	Numerical simulation of hydrodynamic behaviors in a gas-solids dense downer reactor. <i>Advanced Powder Technology</i> , 2020, 31, 3028-3037.	2.0	3
135	Synergistically Tuning Electronic Structure of Porous Mo ₂ C 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
136	Engineering interfacial structures to accelerate hydrogen evolution efficiency of MoS ₂ over a wide pH range. <i>Nanoscale</i> , 2020, 12, 6810-6820.	2.8	30
137	Operational and fouling characteristics of the combined oxidation ditch membrane bioreactor under a continuous-flow mode. <i>Biochemical Engineering Journal</i> , 2020, 157, 107535.	1.8	6
138	An electrically switched ion exchange film with molecular coupling synergistically-driven ability for recovery of Ag ⁺ ions from wastewater. <i>Chemical Engineering Journal</i> , 2020, 389, 124498.	6.6	32
139	Mn-Co oxide decorated on Cu nanowires as efficient catalysts for catalytic oxidation of toluene. <i>Carbon Resources Conversion</i> , 2020, 3, 36-45.	3.2	7
140	Facilely synthesized recyclable mesoporous magnetic silica composite for highly efficient and fast adsorption of Methylene Blue from wastewater: Thermodynamic mechanism and kinetics study. <i>Journal of Molecular Liquids</i> , 2020, 303, 112656.	2.3	23
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