

Guoqing Guan

List of Publications by Year in descending order

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papers

16,109
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docs citations

392
times ranked

15576
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Steam gasification of marine biomass and its biochars for hydrogen-rich gas production. Biomass Conversion and Biorefinery, 2023, 13, 8641-8650. | 4.6 | 9 |
| 2 | High Catalytic Activity of a Nickel Phosphide Nanocatalyst Supported on Melamine-Doped Activated Carbon for Deoxygenation. Topics in Catalysis, 2023, 66, 22-33. | 2.8 | 1 |
| 3 | MXene-copper oxide/sulfonated polyether ether ketone as a hybrid composite proton exchange membrane in electrochemical water electrolysis. Catalysis Today, 2023, 407, 96-106. | 4.4 | 11 |
| 4 | Improving advantages and reducing risks in increasing cyclone height via an apex cone to grasp vortex end. Chinese Journal of Chemical Engineering, 2023, 54, 136-143. | 3.5 | 1 |
| 5 | A novel photo-assisted electrochemically switched ion exchange technology for selective recovery of bromide ions. Chemical Engineering Journal, 2022, 427, 131693. | 12.7 | 18 |
| 6 | Microwave-assisted synthesis of manganese oxide catalysts for total toluene oxidation. Journal of Colloid and Interface Science, 2022, 607, 100-110. | 9.4 | 28 |
| 7 | Pilot verification of a two-stage fluidized bed gasifier with a downer pyrolyzer using oxygen-rich air. Fuel, 2022, 307, 121816. | 6.4 | 10 |
| 8 | Trace holmium assisting delaminated OMS-2 catalysts for total toluene oxidation at low temperature. Journal of Colloid and Interface Science, 2022, 608, 1662-1675. | 9.4 | 13 |
| 9 | Electrochemical technologies for lithium recovery from liquid resources: A review. Renewable and Sustainable Energy Reviews, 2022, 154, 111813. | 16.4 | 59 |
| 10 | An electrochemically switched ion exchange ZrP/PPy film as a synergistically catalytic and anchoring material towards lithium-sulfur battery design. Electrochimica Acta, 2022, 403, 139609. | 5.2 | 6 |
| 11 | Facile fabrication of O vacancy rich $\text{CuVOx nanobelt@NiO nanosheet}$ array for hydrogen evolution reaction. Electrochimica Acta, 2022, 405, 139623. | 5.2 | 5 |
| 12 | An electrochemically induced dual-site adsorption composite film of Ni-MOF derivative/NiCo LDH for selective bromide-ion extraction. Separation and Purification Technology, 2022, 283, 120175. | 7.9 | 22 |
| 13 | Fabrication of fluoroalkylsilane/zeolitic imidazolate framework composites for highly efficient superhydrophobic coating. Carbon Resources Conversion, 2022, 5, 26-34. | 5.9 | 2 |
| 14 | Downer reactor simulation and its application on coal pyrolysis: A review. Carbon Resources Conversion, 2022, 5, 35-51. | 5.9 | 10 |
| 15 | Zn-VOx-Co nanosheets with amorphous/crystalline heterostructure for highly efficient hydrogen evolution reaction. Chemical Engineering Journal, 2022, 432, 134329. | 12.7 | 26 |
| 16 | Metal organic frameworks derived $\text{CoS}_2/\text{NiS}_2$ heterostructure toward high-performance sodium storage anode materials. Chemical Engineering Journal, 2022, 431, 134091. | 12.7 | 28 |
| 17 | Synthesis and Characterization of Hydrochar and Bio-oil from Hydrothermal Carbonization of Sargassum sp. using Choline Chloride (ChCl) Catalyst. International Journal of Renewable Energy Development, 2022, 11, 403-412. | 2.4 | 9 |
| 18 | Mesoporous catalysts for catalytic oxidation of volatile organic compounds: preparations, mechanisms and applications. Reviews in Chemical Engineering, 2022, . | 4.4 | 1 |

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|----|--|------|-----------|
| 19 | Modelling of pseudocapacitive ion adsorption of electrochemically switched ion exchange based on electroactive site concentration. Separation and Purification Technology, 2022, 286, 120451. | 7.9 | 3 |
| 20 | Early Prognostics of Lithium-Ion Battery Pack Health. Sustainability, 2022, 14, 2313. | 3.2 | 3 |
| 21 | An organosulfide-based energetic liquid as the catholyte in high-energy density lithium metal batteries for large-scale grid energy storage. Nano Research, 2022, 15, 6138-6147. | 10.4 | 5 |
| 22 | Selective Hydrogenation of Naphthalene to Decalin Over Surface-Engineered Pd/MoC Based on Synergy between Pd Doping and Mo Vacancy Generation. Advanced Functional Materials, 2022, 32, . | 14.9 | 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. Separation and Purification Technology, 2022, 290, 120845. | 7.9 | 11 |
| 25 | Multi-Hierarchical Porous Mn-Doped CoP Catalyst on Nickel Phosphide Foam for Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2022, 5, 149-158. | 5.1 | 14 |
| 26 | Foldable nano- Li_2MnO_3 integrated composite polymer solid electrolyte for all-solid-state Li metal batteries with stable interface. Journal of Colloid and Interface Science, 2022, 621, 232-240. | 9.4 | 4 |
| 27 | ZIF-8 derived carbon with confined sub-nanometer pores for electrochemically selective separation of chloride ions. Separation and Purification Technology, 2022, 295, 121222. | 7.9 | 12 |
| 28 | A flexible Li_2SnO_3 -coupled PEO-based single-ion conducting composite solid-state electrolyte for highly-stable Li metal batteries. Journal of Alloys and Compounds, 2022, 911, 165138. | 5.5 | 4 |
| 29 | Selective dehydrogenation of aqueous formic acid over multifunctional Mo_2N catalysts at a temperature lower than 100°C . Applied Catalysis B: Environmental, 2022, 313, 121445. | 20.2 | 16 |
| 30 | Phase-transition engineering induced lattice contraction of the molybdenum carbide surface for highly efficient hydrogen evolution reaction. Journal of Materials Chemistry A, 2022, 10, 11414-11425. | 10.3 | 16 |
| 31 | Enhanced electroactivity of BiOCl/PPy hybrid film with anamnestic lattice site for synergistically efficient selective uptake/release of chloride ions. Electrochimica Acta, 2022, 422, 140508. | 5.2 | 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. Chinese Journal of Chemical Engineering, 2022, 49, 161-169. | 3.5 | 2 |
| 34 | An electroactive montmorillonite/polypyrrole ion exchange film: Ultrahigh uptake capacity and ion selectivity for rapid removal of lead ions. Journal of Hazardous Materials, 2022, 437, 129366. | 12.4 | 15 |
| 35 | Trimetallic sulfides derived from tri-metal-organic frameworks as anode materials for advanced sodium ion batteries. Journal of Colloid and Interface Science, 2022, 625, 248-256. | 9.4 | 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. ACS Applied Energy Materials, 2022, 5, 8697-8708. | 5.1 | 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. | 10.1 | 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. | 6.4 | 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. | 10.7 | 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. | 12.7 | 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. | 20.2 | 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. | 7.9 | 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. | 12.7 | 36 |
| 44 | Data-driven prediction of biomass pyrolysis pathways toward phenolic and aromatic products. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104836. | 6.7 | 10 |
| 45 | Production of bio-jet fuel through ethylene oligomerization using NiAlKIT-6 as a highly efficient catalyst. <i>Fuel</i> , 2021, 287, 119831. | 6.4 | 16 |
| 46 | Steam gasification of co-pyrolysis chars from various types of biomass. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3640-3650. | 7.1 | 24 |
| 47 | A biomass-based small-scale power generation system with energy/exergy recuperation. <i>Energy Conversion and Management</i> , 2021, 227, 113623. | 9.2 | 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. | 8.8 | 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. | 12.7 | 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. | 7.9 | 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. | 10.7 | 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. | 1.7 | 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. | 3.3 | 7 |
| 54 | Macroalgae-derived rare sugars: Applications and catalytic synthesis. <i>Carbon Resources Conversion</i> , 2021, 4, 150-163. | 5.9 | 13 |

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|----|---|------|-----------|
| 55 | Simultaneous assistance of molecular oxygen and mesoporous SO ₃ H γ -alumina for a selective conversion of biomass-derived furfural to Î ³ -valerolactone without an external addition of H ₂ . Sustainable Energy and Fuels, 2021, 5, 4041-4052. | 4.9 | 6 |
| 56 | Two-dimensional Ti3C2TX-nanosheets/Cu2O composite as a high-performance photocatalyst for decomposition of tetracycline. Carbon Resources Conversion, 2021, 4, 197-204. | 5.9 | 17 |
| 57 | Transition metal-based catalysts for electrochemical water splitting at high current density: current status and perspectives. Nanoscale, 2021, 13, 12788-12817. | 5.6 | 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. | 5.9 | 16 |
| 59 | Numerical investigation on the long-term gas production behavior at the 2017 Shenhua methane hydrate production site. Applied Energy, 2021, 285, 116466. | 10.1 | 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. | 7.4 | 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. | 12.7 | 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. | 8.0 | 18 |
| 63 | Preparation of various hierarchical HZSM-5 based catalysts for in-situ fast upgrading of bio-oil. Renewable Energy, 2021, 169, 283-292. | 8.9 | 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. | 5.5 | 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. | 4.9 | 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. | 7.9 | 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. | 12.7 | 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. | 16.4 | 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. | 3.6 | 6 |
| 70 | Gas Production Enhancement from a Multilayered Hydrate Reservoir in the South China Sea by Hydraulic Fracturing. Energy & Fuels, 2021, 35, 12104-12118. | 5.1 | 30 |
| 71 | Multi-fluid Eulerian simulation of binary particles mixing and gasâ€“solids contacting in high solids-flux downer reactor equipped with a lateral particle feeding nozzle. Chinese Journal of Chemical Engineering, 2021, 35, 152-162. | 3.5 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 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. | 7.9 | 8 |
| 74 | Adsorptive removal and photocatalytic decomposition of cationic dyes on niobium oxide with deformed orthorhombic structure. Journal of Hazardous Materials, 2021, 415, 125635. | 12.4 | 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. | 5.5 | 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. | 20.2 | 79 |
| 77 | MOFs-derived transition metal sulfide composites for advanced sodium ion batteries. Energy Storage Materials, 2021, 41, 404-426. | 18.0 | 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. | 7.1 | 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. | 6.7 | 0 |
| 80 | Numerical evaluation on the effect of horizontal-well systems on the long-term gas hydrate production behavior at the second Shenhua test site. Journal of Natural Gas Science and Engineering, 2021, 95, 104200. | 4.4 | 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. | 7.9 | 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. | 7.9 | 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. | 9.6 | 20 |
| 84 | Catalyst Ni-Mo/Al ₂ O ₃ promoted with infrared heating calcination for hydrodesulfurization of shale oil. Fuel, 2021, 305, 121537. | 6.4 | 6 |
| 85 | Biomass-Derived N-Doped Carbon for Efficient Electrocatalytic CO ₂ Reduction to CO and Zn-“CO ₂ Batteries. ACS Applied Materials & Interfaces, 2021, 13, 3738-3747. | 8.0 | 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. | 3.6 | 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. | 4.1 | 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. | 6.7 | 11 |
| 90 | One-pot upgrading of coconut coir lignin over high-efficiency Ni ₂ P catalysts. Journal of Environmental Chemical Engineering, 2021, 9, 106702. | 6.7 | 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. Journal of Chemical Engineering of Japan, 2021, 54, 620-629. | 0.6 | 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 CNTs-Ti ₃ C ₂ T ₂ X MXene electrodes for high-energy solid-state flexible supercapacitors. Journal of Materials Chemistry A, 2021, 9, 26135-26148. | 10.3 | 22 |
| 93 | High selective monoaromatic hydrocarbon production via integrated pyrolysis and catalytic upgrading of Napier grass over Ca/Ni/boronic acid/KIT-6. Biomass Conversion and Biorefinery, 2020, 10, 423-434. | 4.6 | 4 |
| 94 | Steam gasification of biochars derived from pruned apple branch with various pyrolysis temperatures. International Journal of Hydrogen Energy, 2020, 45, 18321-18330. | 7.1 | 18 |
| 95 | Iodide ion trapping polypyrrole film: Selective capture of iodide ions by electrochemically switched ion extraction (ESIE) process. Chemical Engineering Journal, 2020, 380, 122529. | 12.7 | 26 |
| 96 | Small-scale biomass gasification systems for power generation (<200 kW class): A review. Renewable and Sustainable Energy Reviews, 2020, 117, 109486. | 16.4 | 221 |
| 97 | Quasicatalytic and catalytic selective oxidation of methane to methanol over solid materials: a review on the roles of water. Catalysis Reviews - Science and Engineering, 2020, 62, 313-345. | 12.9 | 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. Chemical Engineering Journal, 2020, 380, 122419. | 12.7 | 37 |
| 99 | A novel electrical double-layer ion transport carbon-based membrane with 3D porous structure: High permselectivity for dilute zinc ion separation. Chemical Engineering Journal, 2020, 380, 122413. | 12.7 | 12 |
| 100 | 3D visualization of methane hydrate production behaviors under actual wellbore conditions. Journal of Petroleum Science and Engineering, 2020, 185, 106645. | 4.2 | 8 |
| 101 | Potential-responsive ions-selectively capture effect for efficient removal of copper ions from wastewater. Electrochimica Acta, 2020, 330, 135249. | 5.2 | 18 |
| 102 | An electrochemically switched ion exchange process with self-electrical-energy recuperation for desalination. Separation and Purification Technology, 2020, 239, 116521. | 7.9 | 22 |
| 103 | Nickel phosphate nanorod-enhanced polyethylene oxide-based composite polymer electrolytes for solid-state lithium batteries. Journal of Colloid and Interface Science, 2020, 565, 110-118. | 9.4 | 47 |
| 104 | A high-performance electroactive PPy/rGO/NiCo-LDH hybrid film for removal of dilute dodecyl sulfonate ions. Electrochimica Acta, 2020, 331, 135288. | 5.2 | 36 |
| 105 | Earth-abundant transition-metal-based bifunctional catalysts for overall electrochemical water splitting: A review. Journal of Alloys and Compounds, 2020, 819, 153346. | 5.5 | 253 |
| 106 | Selective production of green solvent (isoamyl acetate) from fusel oil using a sulfonic acid-functionalized KIT-6 catalyst. Molecular Catalysis, 2020, 484, 110724. | 2.0 | 9 |
| 107 | One-dimensional CoMoS ₄ nanorod arrays as an efficient electrocatalyst for hydrogen evolution reaction. Journal of Alloys and Compounds, 2020, 821, 153245. | 5.5 | 8 |
| 108 | A sandwich-type composite polymer electrolyte for all-solid-state lithium metal batteries with high areal capacity and cycling stability. Journal of Membrane Science, 2020, 596, 117739. | 8.2 | 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. | 5.5 | 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. | 3.8 | 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. | 5.5 | 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. | 6.4 | 13 |
| 113 | Fabrication of CuO nanowires@NiMnO 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. | 10.3 | 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. | 3.8 | 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. | 8.0 | 66 |
| 116 | Anode-free rechargeable lithium metal batteries: Progress and prospects. <i>Energy Storage Materials</i> , 2020, 32, 386-401. | 18.0 | 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. | 6.7 | 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. | 3.7 | 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. | 7.9 | 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. | 4.2 | 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. | 6.7 | 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. | 6.7 | 16 |
| 123 | Carbon sequestration through hydrothermal carbonization of expired fresh milk and its application in supercapacitor. <i>Biomass and Bioenergy</i> , 2020, 143, 105836. | 5.7 | 30 |
| 124 | Synthesis of p-menthane-3,8-diol from citronellal over lignin-derived carbon acid catalysts. <i>New Journal of Chemistry</i> , 2020, 44, 10441-10447. | 2.8 | 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. | 7.9 | 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. | 7.9 | 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. | 2.0 | 20 |
| 128 | Study of a recycling reaction system for catalytic transformation of biomass-based carbohydrates via acidic-polar biphasic conditions. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 1405-1409. | 3.7 | 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. | 7.1 | 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. | 5.9 | 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. | 12.7 | 65 |
| 132 | Waste biomass valorization through production of xylose-based porous carbon microspheres for supercapacitor applications. <i>Waste Management</i> , 2020, 105, 492-500. | 7.4 | 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. | 7.9 | 22 |
| 134 | Numerical simulation of hydrodynamic behaviors in a gas-solids dense downer reactor. <i>Advanced Powder Technology</i> , 2020, 31, 3028-3037. | 4.1 | 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. | 14.9 | 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. | 5.6 | 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. | 3.6 | 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. | 12.7 | 32 |
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