

Wen Liu

List of Publications by Year in descending order

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243
papers

20,039
citations

9264

74
h-index

12597

132
g-index

250
all docs

250
docs citations

250
times ranked

19483
citing authors

#	ARTICLE	IF	CITATIONS
1	Nickel-Rich Layered Lithium Transition-Metal Oxide for High-Energy Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4440-4457.	13.8	1,512
2	Nitrogen-doped tungsten carbide nanoarray as an efficient bifunctional electrocatalyst for water splitting in acid. <i>Nature Communications</i> , 2018, 9, 924.	12.8	571
3	Nanostructured transition metal sulfides for lithium ion batteries: Progress and challenges. <i>Nano Today</i> , 2014, 9, 604-630.	11.9	545
4	Visible-light-driven photocatalytic degradation of diclofenac by carbon quantum dots modified porous g-C ₃ N ₄ : Mechanisms, degradation pathway and DFT calculation. <i>Water Research</i> , 2019, 151, 8-19.	11.3	520
5	Tuning Electronic Structure of NiFe Layered Double Hydroxides with Vanadium Doping toward High Efficient Electrocatalytic Water Oxidation. <i>Advanced Energy Materials</i> , 2018, 8, 1703341.	19.5	505
6	Metal (Ni, Co)-Metal Oxides/Graphene Nanocomposites as Multifunctional Electrocatalysts. <i>Advanced Functional Materials</i> , 2015, 25, 5799-5808.	14.9	490
7	Single-Crystalline Ultrathin Co ₃ O ₄ Nanosheets with Massive Vacancy Defects for Enhanced Electrocatalysis. <i>Advanced Energy Materials</i> , 2018, 8, 1701694.	19.5	451
8	Electrochemical CO ₂ Reduction to Hydrocarbons on a Heterogeneous Molecular Cu Catalyst in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2016, 138, 8076-8079.	13.7	450
9	Boosting oxygen evolution of single-atomic ruthenium through electronic coupling with cobalt-iron layered double hydroxides. <i>Nature Communications</i> , 2019, 10, 1711.	12.8	446
10	A highly active and stable hydrogen evolution catalyst based on pyrite-structured cobalt phosphosulfide. <i>Nature Communications</i> , 2016, 7, 10771.	12.8	418
11	Surface Chemistry in Cobalt Phosphide-Stabilized Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2018, 140, 1455-1459.	13.7	393
12	Layered double hydroxide-based electrocatalysts for the oxygen evolution reaction: identification and tailoring of active sites, and superaerophobic nanoarray electrode assembly. <i>Chemical Society Reviews</i> , 2021, 50, 8790-8817.	38.1	331
13	A general route <i>via</i> formamide condensation to prepare atomically dispersed metal-nitrogen-carbon electrocatalysts for energy technologies. <i>Energy and Environmental Science</i> , 2019, 12, 1317-1325.	30.8	290
14	Introducing Fe ²⁺ into Nickel-Iron Layered Double Hydroxide: Local Structure Modulated Water Oxidation Activity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9392-9396.	13.8	284
15	Visible-Light-Driven Nitrogen Fixation Catalyzed by Bi ₅ O ₇ Br Nanostructures: Enhanced Performance by Oxygen Vacancies. <i>Journal of the American Chemical Society</i> , 2020, 142, 12430-12439.	13.7	260
16	Ternary Hybrid Material for High-Performance Lithium-Sulfur Battery. <i>Journal of the American Chemical Society</i> , 2015, 137, 12946-12953.	13.7	253
17	Synergy of photocatalysis and adsorption for simultaneous removal of Cr(VI) and Cr(III) with TiO ₂ and titanate nanotubes. <i>Water Research</i> , 2014, 53, 12-25.	11.3	252
18	Metal/Oxide Interface Nanostructures Generated by Surface Segregation for Electrocatalysis. <i>Nano Letters</i> , 2015, 15, 7704-7710.	9.1	233

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19	Highly active WO ₃ @anatase-SiO ₂ aerogel for solar-light-driven phenanthrene degradation: Mechanism insight and toxicity assessment. <i>Water Research</i> , 2019, 162, 369-382.	11.3	225
20	Enhanced Oxidation of Organic Contaminants by Iron(II)-Activated Periodate: The Significance of High-Valent Iron-Oxo Species. <i>Environmental Science & Technology</i> , 2021, 55, 7634-7642.	10.0	208
21	Cobalt/Peracetic Acid: Advanced Oxidation of Aromatic Organic Compounds by Acetylperoxyl Radicals. <i>Environmental Science & Technology</i> , 2020, 54, 5268-5278.	10.0	200
22	Silicate-Enhanced Heterogeneous Flow-Through Electro-Fenton System Using Iron Oxides under Nanoconfinement. <i>Environmental Science & Technology</i> , 2021, 55, 4045-4053.	10.0	192
23	Correlation of Active Sites to Generated Reactive Species and Degradation Routes of Organics in Peroxymonosulfate Activation by Co-Loaded Carbon. <i>Environmental Science & Technology</i> , 2021, 55, 16163-16174.	10.0	189
24	Co/CoP embedded in a hairy nitrogen-doped carbon polyhedron as an advanced tri-functional electrocatalyst. <i>Materials Horizons</i> , 2018, 5, 108-115.	12.2	184
25	Bifunctional Bi ₂ O ₇ /MIL-100(Fe) composites toward photocatalytic Cr(VI) sequestration and activation of persulfate for bisphenol A degradation. <i>Science of the Total Environment</i> , 2021, 752, 141901.	8.0	175
26	Countering Voltage Decay and Capacity Fading of Lithium-Rich Cathode Material at 60 °C by Hybrid Surface Protection Layers. <i>Advanced Energy Materials</i> , 2015, 5, 1500274.	19.5	172
27	One-Step Synthesis of MoS ₂ /WS ₂ Layered Heterostructures and Catalytic Activity of Defective Transition Metal Dichalcogenide Films. <i>ACS Nano</i> , 2016, 10, 2004-2009.	14.6	164
28	Functional metal-organic framework boosting lithium metal anode performance via chemical interactions. <i>Chemical Science</i> , 2017, 8, 4285-4291.	7.4	164
29	Effects of Molecular Structure on Organic Contaminants' Degradation Efficiency and Dominant ROS in the Advanced Oxidation Process with Multiple ROS. <i>Environmental Science & Technology</i> , 2022, 56, 8784-8795.	10.0	161
30	Strong Metal-Phosphide Interactions in Core-Shell Geometry for Enhanced Electrocatalysis. <i>Nano Letters</i> , 2017, 17, 2057-2063.	9.1	145
31	Activating basal plane in NiFe layered double hydroxide by Mn ²⁺ doping for efficient and durable oxygen evolution reaction. <i>Nanoscale Horizons</i> , 2018, 3, 532-537.	8.0	144
32	Insights into catalytic activation of peroxymonosulfate for carbamazepine degradation by MnO ₂ nanoparticles in-situ anchored titanate nanotubes: Mechanism, ecotoxicity and DFT study. <i>Journal of Hazardous Materials</i> , 2021, 402, 123779.	12.4	141
33	Improvement of the high-temperature, high-voltage cycling performance of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathode with TiO ₂ coating. <i>Journal of Alloys and Compounds</i> , 2012, 543, 181-188.	5.5	140
34	Phosphorus oxoanion-intercalated layered double hydroxides for high-performance oxygen evolution. <i>Nano Research</i> , 2017, 10, 1732-1739.	10.4	139
35	Thiol-Branched Solid Polymer Electrolyte Featuring High Strength, Toughness, and Lithium Ionic Conductivity for Lithium-Metal Batteries. <i>Advanced Materials</i> , 2020, 32, e2001259.	21.0	139
36	Interface Engineering of Co(OH) ₂ Nanosheets Growing on the KNbO ₃ Perovskite Based on Electronic Structure Modulation for Enhanced Peroxymonosulfate Activation. <i>Environmental Science & Technology</i> , 2022, 56, 5200-5212.	10.0	136

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37	Carbon quantum dots modified tubular g-C ₃ N ₄ with enhanced photocatalytic activity for carbamazepine elimination: Mechanisms, degradation pathway and DFT calculation. <i>Journal of Hazardous Materials</i> , 2020, 381, 120957.	12.4	134
38	Insights into the Electron-Transfer Mechanism of Permanganate Activation by Graphite for Enhanced Oxidation of Sulfamethoxazole. <i>Environmental Science & Technology</i> , 2021, 55, 9189-9198.	10.0	131
39	Self-Cleaning Catalyst Electrodes for Stabilized CO ₂ Reduction to Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13135-13139.	13.8	126
40	A novel electrocatalytic filtration system with carbon nanotube supported nanoscale zerovalent copper toward ultrafast oxidation of organic pollutants. <i>Water Research</i> , 2021, 194, 116961.	11.3	123
41	Facile synthesis of magnetic Fe ₃ O ₄ @BiOI@AgI for water decontamination with visible light irradiation: Different mechanisms for different organic pollutants degradation and bacterial disinfection. <i>Water Research</i> , 2018, 137, 120-129.	11.3	117
42	Photocatalysis of bisphenol A by an easy-settling titania/titanate composite: Effects of water chemistry factors, degradation pathway and theoretical calculation. <i>Environmental Pollution</i> , 2018, 232, 580-590.	7.5	116
43	Magnetic Fe ₃ O ₄ -deposited flower-like MoS ₂ nanocomposites for the Fenton-like Escherichia coli disinfection and diclofenac degradation. <i>Journal of Hazardous Materials</i> , 2020, 385, 121604.	12.4	116
44	High-performance Li-S battery cathode with catalyst-like carbon nanotube-MoP promoting polysulfide redox. <i>Nano Research</i> , 2017, 10, 3698-3705.	10.4	116
45	A high performance oxygen storage material for chemical looping processes with CO ₂ capture. <i>Energy and Environmental Science</i> , 2013, 6, 288-298.	30.8	112
46	Advanced electrolyte design for stable lithium metal anode: From liquid to solid. <i>Nano Energy</i> , 2021, 80, 105516.	16.0	111
47	Newly designed primer pair revealed dominant and diverse comammox amoA gene in full-scale wastewater treatment plants. <i>Bioresource Technology</i> , 2018, 270, 580-587.	9.6	107
48	Synergistic effect of hydrothermal co-carbonization of sewage sludge with fruit and agricultural wastes on hydrochar fuel quality and combustion behavior. <i>Waste Management</i> , 2019, 100, 171-181.	7.4	107
49	Dendrite-Free Lithium Deposition via a Superfilling Mechanism for High-Performance Li-Metal Batteries. <i>Advanced Materials</i> , 2019, 31, e1903248.	21.0	106
50	Visible light photocatalytic degradation of sulfanilamide enhanced by Mo doping of BiOBr nanoflowers. <i>Journal of Hazardous Materials</i> , 2022, 424, 127563.	12.4	104
51	Piezo-activation of peroxymonosulfate for benzothiazole removal in water. <i>Journal of Hazardous Materials</i> , 2020, 393, 122448.	12.4	102
52	Photocatalytic transformation fate and toxicity of ciprofloxacin related to dissociation species: Experimental and theoretical evidences. <i>Water Research</i> , 2020, 185, 116286.	11.3	99
53	Atomically Dispersed Fe-N ₄ Modified with Precisely Located S for Highly Efficient Oxygen Reduction. <i>Nano-Micro Letters</i> , 2020, 12, 116.	27.0	99
54	Simultaneous Cr(VI) reduction and Cr(III) removal of bifunctional MOF/Titanate nanotube composites. <i>Environmental Pollution</i> , 2019, 249, 502-511.	7.5	97

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55	Adsorption mechanisms of thallium(I) and thallium(III) by titanate nanotubes: Ion-exchange and co-precipitation. <i>Journal of Colloid and Interface Science</i> , 2014, 423, 67-75.	9.4	94
56	Superior removal of inorganic and organic arsenic pollutants from water with MIL-88A(Fe) decorated on cotton fibers. <i>Chemosphere</i> , 2020, 254, 126829.	8.2	93
57	Simultaneous removal of Cr(VI) and 4-chlorophenol through photocatalysis by a novel anatase/titanate nanosheet composite: Synergetic promotion effect and autosynchronous doping. <i>Journal of Hazardous Materials</i> , 2016, 317, 385-393.	12.4	92
58	Recent Advances in Non-Precious Metal-Based Electrodes for Alkaline Water Electrolysis. <i>ChemNanoMat</i> , 2020, 6, 336-355.	2.8	92
59	Ultrathin dendrimer-graphene oxide composite film for stable cycling lithium-sulfur batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3578-3583.	7.1	90
60	Materials Chemistry of Iron Phosphosulfide Nanoparticles: Synthesis, Solid State Chemistry, Surface Structure, and Electrocatalysis for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2017, 7, 4026-4032.	11.2	89
61	Stable Li metal anode with protected interface for high-performance Li metal batteries. <i>Energy Storage Materials</i> , 2018, 15, 249-256.	18.0	89
62	The degradation pathways of carbamazepine in advanced oxidation process: A mini review coupled with DFT calculation. <i>Science of the Total Environment</i> , 2021, 779, 146498.	8.0	88
63	A concentrate-and-destroy technique for degradation of perfluorooctanoic acid in water using a new adsorptive photocatalyst. <i>Water Research</i> , 2020, 185, 116219.	11.3	87
64	Mechanistic Insights into Surface Chemical Interactions between Lithium Polysulfides and Transition Metal Oxides. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14222-14227.	3.1	86
65	Revealing the Contribution of Individual Factors to Hydrogen Evolution Reaction Catalytic Activity. <i>Advanced Materials</i> , 2018, 30, e1706076.	21.0	86
66	Introducing Fe ²⁺ into Nickel-Iron Layered Double Hydroxide: Local Structure Modulated Water Oxidation Activity. <i>Angewandte Chemie</i> , 2018, 130, 9536-9540.	2.0	86
67	Pre-accumulation and in-situ destruction of diclofenac by a photo-regenerable activated carbon fiber supported titanate nanotubes composite material: Intermediates, DFT calculation, and ecotoxicity. <i>Journal of Hazardous Materials</i> , 2020, 400, 123225.	12.4	86
68	Novel CuCo ₂ O ₄ Composite Spinel with a Meso-Macroporous Nanosheet Structure for Sulfate Radical Formation and Benzophenone-4 Degradation: Interface Reaction, Degradation Pathway, and DFT Calculation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20522-20535.	8.0	83
69	Engineering the interface between LiCoO ₂ and Li ₁₀ GeP ₂ S ₁₂ solid electrolytes with an ultrathin Li ₂ CoTi ₃ O ₈ interlayer to boost the performance of all-solid-state batteries. <i>Energy and Environmental Science</i> , 2021, 14, 437-450.	30.8	82
70	An investigation of the kinetics of CO ₂ uptake by a synthetic calcium based sorbent. <i>Chemical Engineering Science</i> , 2012, 69, 644-658.	3.8	81
71	Selectivity regulation of CO ₂ electroreduction through contact interface engineering on superwetting Cu nanoarray electrodes. <i>Nano Research</i> , 2019, 12, 345-349.	10.4	80
72	A modified Al ₂ O ₃ coating process to enhance the electrochemical performance of Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ and its comparison with traditional Al ₂ O ₃ coating process. <i>Journal of Power Sources</i> , 2010, 195, 8267-8274.	7.8	79

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73	Tunable Covalent Organic Frameworks with Different Heterocyclic Nitrogen Locations for Efficient Cr(VI) Reduction, <i>Escherichia coli</i> Disinfection, and Paracetamol Degradation under Visible-Light Irradiation. <i>Environmental Science & Technology</i> , 2021, 55, 5371-5381.	10.0	79
74	The chemistry, recent advancements and activity descriptors for macrocycles based electrocatalysts in oxygen reduction reaction. <i>Coordination Chemistry Reviews</i> , 2020, 402, 213047.	18.8	78
75	Surface engineering of LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ towards boosting lithium storage: Bimetallic oxides versus monometallic oxides. <i>Nano Energy</i> , 2020, 77, 105034.	16.0	78
76	A MnO ₂ /Graphene Oxide/Multi-Walled Carbon Nanotubes-Sulfur Composite with Dual-Efficient Polysulfide Adsorption for Improving Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28566-28573.	8.0	77
77	Fabrication of high tap density LiFe _{0.6} Mn _{0.4} PO ₄ /C microspheres by a double carbon coating "spray drying" method for high rate lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2411-2417.	10.3	76
78	Aging amorphous/crystalline heterophase PdCu nanosheets for catalytic reactions. <i>National Science Review</i> , 2019, 6, 955-961.	9.5	75
79	Tunable active sites on biogas digestate derived biochar for sulfanilamide degradation by peroxymonosulfate activation. <i>Journal of Hazardous Materials</i> , 2022, 421, 126794.	12.4	75
80	AgI modified covalent organic frameworks for effective bacterial disinfection and organic pollutant degradation under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2020, 398, 122865.	12.4	73
81	Inhibiting the interaction between FeO and Al ₂ O ₃ during chemical looping production of hydrogen. <i>RSC Advances</i> , 2015, 5, 1759-1771.	3.6	72
82	High-Performance Ni-Fe Redox Catalysts for Selective CH ₄ to Syngas Conversion via Chemical Looping. <i>ACS Catalysis</i> , 2018, 8, 1748-1756.	11.2	72
83	Insights into the role of in-situ and ex-situ hydrogen peroxide for enhanced ferrate(VI) towards oxidation of organic contaminants. <i>Water Research</i> , 2021, 203, 117548.	11.3	72
84	Selective and irreversible adsorption of mercury(II) from aqueous solution by a flower-like titanate nanomaterial. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17676-17684.	10.3	71
85	The Effect of Addition of ZrO ₂ to Fe ₂ O ₃ for Hydrogen Production by Chemical Looping. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 16597-16609.	3.7	70
86	Metagenomic insights into the profile of antibiotic resistomes in a large drinking water reservoir. <i>Environment International</i> , 2020, 136, 105449.	10.0	65
87	Biosynthesis of palladium nanoparticles using <i>Shewanella loihica</i> PV-4 for excellent catalytic reduction of chromium(VI). <i>Environmental Science: Nano</i> , 2018, 5, 730-739.	4.3	64
88	Kinetics of the reduction of wüstite by hydrogen and carbon monoxide for the chemical looping production of hydrogen. <i>Chemical Engineering Science</i> , 2014, 120, 149-166.	3.8	63
89	Improving hydrogen yields, and hydrogen:steam ratio in the chemical looping production of hydrogen using Ca ₂ Fe ₂ O ₅ . <i>Chemical Engineering Journal</i> , 2016, 296, 406-411.	12.7	61
90	Large scale computational screening and experimental discovery of novel materials for high temperature CO ₂ capture. <i>Energy and Environmental Science</i> , 2016, 9, 1346-1360.	30.8	61

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91	Dual-Enhanced Photocatalytic Activity of Fe-Deposited Titanate Nanotubes Used for Simultaneous Removal of As(III) and As(V). ACS Applied Materials & Interfaces, 2015, 7, 19726-19735.	8.0	60
92	Development and performance of iron based oxygen carriers containing calcium ferrites for chemical looping combustion and production of hydrogen. International Journal of Hydrogen Energy, 2016, 41, 4073-4084.	7.1	60
93	Graphene modified anatase/titanate nanosheets with enhanced photocatalytic activity for efficient degradation of sulfamethazine under simulated solar light. Chemosphere, 2019, 233, 198-206.	8.2	60
94	High performance Ni catalysts prepared by freeze drying for efficient dry reforming of methane. Applied Catalysis B: Environmental, 2020, 275, 119109.	20.2	60
95	Unveiling the Interfacial Effects for Enhanced Hydrogen Evolution Reaction on MoS ₂ /WTe ₂ Hybrid Structures. Small, 2019, 15, e1900078.	10.0	58
96	Surface modification of BiOBr/TiO ₂ by reduced AgBr for solar-driven PAHs degradation: Mechanism insight and application assessment. Journal of Hazardous Materials, 2021, 412, 125221.	12.4	58
97	Synthetic Architecture of MgO/C Nanocomposite from Hierarchical-Structured Coordination Polymer toward Enhanced CO ₂ Capture. ACS Applied Materials & Interfaces, 2017, 9, 9592-9602.	8.0	57
98	Synthesis, Application, and Carbonation Behavior of Ca ₂ Fe ₂ O ₅ for Chemical Looping H ₂ Production. Energy & Fuels, 2016, 30, 6220-6232.	5.1	55
99	Porous tube-like ZnS derived from rod-like ZIF-L for photocatalytic Cr(VI) reduction and organic pollutants degradation. Environmental Pollution, 2020, 256, 113417.	7.5	55
100	Modification of zero valent iron nanoparticles by sodium alginate and bentonite: Enhanced transport, effective hexavalent chromium removal and reduced bacterial toxicity. Journal of Hazardous Materials, 2020, 388, 121822.	12.4	52
101	Carbon nanotube-loaded mesoporous LiFe _{0.6} Mn _{0.4} PO ₄ /C microspheres as high performance cathodes for lithium-ion batteries. Journal of Power Sources, 2014, 267, 459-468.	7.8	50
102	Iron-Catalyzed Enantioselective Radical Carboazidation and Diazidation of α,β -Unsaturated Carbonyl Compounds. Journal of the American Chemical Society, 2021, 143, 11856-11863.	13.7	50
103	CO ₂ hydrogenation to methanol on tungsten-doped Cu/CeO ₂ catalysts. Applied Catalysis B: Environmental, 2022, 306, 121098.	20.2	50
104	Degradation of petroleum hydrocarbons in seawater by simulated surface-level atmospheric ozone: Reaction kinetics and effect of oil dispersant. Marine Pollution Bulletin, 2018, 135, 427-440.	5.0	49
105	Hierarchical cobalt oxide@Nickel-vanadium layer double hydroxide core/shell nanowire arrays with enhanced areal specific capacity for nickel-zinc batteries. Journal of Power Sources, 2019, 436, 226867.	7.8	48
106	Strong Metal-Support Interaction for 2D Materials: Application in Noble Metal/TiB ₂ Heterointerfaces and their Enhanced Catalytic Performance for Formic Acid Dehydrogenation. Advanced Materials, 2021, 33, e2101536.	21.0	47
107	Ferrocene-Promoted Long-Cycle Lithium-Sulfur Batteries. Angewandte Chemie - International Edition, 2016, 55, 14818-14822.	13.8	46
108	Bulk and surface degradation in layered Ni-rich cathode for Li ions batteries: Defect proliferation via chain reaction mechanism. Energy Storage Materials, 2021, 35, 62-69.	18.0	46

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109	Facile synthesis of sulfhydryl modified covalent organic frameworks for high efficient Hg(II) removal from water. <i>Journal of Hazardous Materials</i> , 2021, 405, 124190.	12.4	46
110	Recycling-oriented cathode materials design for lithium-ion batteries: Elegant structures versus complicated compositions. <i>Energy Storage Materials</i> , 2021, 41, 380-394.	18.0	46
111	Efficient activation of ferrate(VI) by colloid manganese dioxide: Comprehensive elucidation of the surface-promoted mechanism. <i>Water Research</i> , 2022, 215, 118243.	11.3	46
112	Asymmetric double-layer composite electrolyte with enhanced ionic conductivity and interface stability for all-solid-state lithium metal batteries. <i>Chinese Chemical Letters</i> , 2021, 32, 125-131.	9.0	45
113	The performance of Fe ₂ O ₃ -CaO Oxygen Carriers and the Interaction of Iron Oxides with CaO during Chemical Looping Combustion and H ₂ production. <i>Energy Procedia</i> , 2014, 63, 87-97.	1.8	44
114	Toward stable zinc aqueous rechargeable batteries by anode morphology modulation via polyaspartic acid additive. <i>Energy Storage Materials</i> , 2022, 45, 777-785.	18.0	44
115	Hydrogen atom abstraction mechanism for organic compound oxidation by acetylperoxyl radical in Co(II)/peracetic acid activation system. <i>Water Research</i> , 2022, 212, 118113.	11.3	44
116	Janus electrode with simultaneous management on gas and liquid transport for boosting oxygen reduction reaction. <i>Nano Research</i> , 2019, 12, 177-182.	10.4	43
117	Co-pyrolysis of sewage sludge and hydrochar with coals: Pyrolytic behaviors and kinetics analysis using TG-FTIR and a discrete distributed activation energy model. <i>Energy Conversion and Management</i> , 2020, 203, 112226.	9.2	43
118	Different degradation mechanisms of carbamazepine and diclofenac by single-atom Barium embedded g-C ₃ N ₄ : the role of photosensitization-like mechanism. <i>Journal of Hazardous Materials</i> , 2021, 416, 125936.	12.4	43
119	Arsenate adsorption onto Fe-TNTs prepared by a novel water-ethanol hydrothermal method: Mechanism and synergistic effect. <i>Journal of Colloid and Interface Science</i> , 2015, 440, 253-262.	9.4	42
120	Ultrafine Alloy Nanoparticles Converted from 2D Intercalated Coordination Polymers for Catalytic Application. <i>Advanced Functional Materials</i> , 2016, 26, 5658-5668.	14.9	41
121	Synthetic solid oxide sorbents for CO ₂ capture: state-of-the art and future perspectives. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1682-1705.	10.3	40
122	Research Progress of the Solid State Lithium-Sulfur Batteries. <i>Frontiers in Energy Research</i> , 2019, 7, .	2.3	39
123	Superaerophilic copper nanowires for efficient and switchable CO ₂ electroreduction. <i>Nanoscale Horizons</i> , 2019, 4, 490-494.	8.0	39
124	Surface Restraint Synthesis of an Organic-Inorganic Hybrid Layer for Dendrite-Free Lithium Metal Anode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8717-8724.	8.0	39
125	ZnCo ₂ O ₄ /ZnO induced lithium deposition in multi-scaled carbon/nickel frameworks for dendrite-free lithium metal anode. <i>Journal of Energy Chemistry</i> , 2020, 43, 16-23.	12.9	39
126	Self-Cleaning Catalyst Electrodes for Stabilized CO ₂ Reduction to Hydrocarbons. <i>Angewandte Chemie</i> , 2017, 129, 13315-13319.	2.0	38

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127	Highly efficient AgBr/h-MoO ₃ with charge separation tuning for photocatalytic degradation of trimethoprim: Mechanism insight and toxicity assessment. <i>Science of the Total Environment</i> , 2021, 781, 146754.	8.0	38
128	SnO ₂ quantum dots @ 3D sulfur-doped reduced graphene oxides as active and durable anode for lithium ion batteries. <i>Electrochimica Acta</i> , 2018, 291, 24-30.	5.2	37
129	Vertical profile of soil/sediment pollution and microbial community change by e-waste recycling operation. <i>Science of the Total Environment</i> , 2019, 669, 1001-1010.	8.0	37
130	The hormone-dependent function of Hsp90 in the crosstalk between 20-hydroxyecdysone and juvenile hormone signaling pathways in insects is determined by differential phosphorylation and protein interactions. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 5184-5192.	2.4	35
131	Promoting electrochemical conversion of CO ₂ to formate with rich oxygen vacancies in nanoporous tin oxides. <i>Chinese Chemical Letters</i> , 2019, 30, 2274-2278.	9.0	35
132	Sale-based estimation of pharmaceutical concentrations and associated environmental risk in the Japanese wastewater system. <i>Environment International</i> , 2020, 139, 105690.	10.0	35
133	Sea-Buckthorn-Like MnO ₂ Decorated Titanate Nanotubes with Oxidation Property and Photocatalytic Activity for Enhanced Degradation of 17 β -Estradiol under Solar Light. <i>ACS Applied Energy Materials</i> , 2018, 1, 2123-2133.	5.1	34
134	Deep-blue fluorescent emitter based on a 9,9-dioctylfluorene bridge with a hybridized local and charge-transfer excited state for organic light-emitting devices with EQE exceeding 8%. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14117-14124.	5.5	34
135	Single-atom silver induced amorphization of hollow tubular g-C ₃ N ₄ for enhanced visible light-driven photocatalytic degradation of naproxen. <i>Science of the Total Environment</i> , 2020, 742, 140642.	8.0	34
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