

Yuanyuan Wang

List of Publications by Year in descending order

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153
papers

9,828
citations

34105

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153
docs citations

153
times ranked

9396
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen Vacancy Induced Band-Gap Narrowing and Enhanced Visible Light Photocatalytic Activity of ZnO. ACS Applied Materials & Interfaces, 2012, 4, 4024-4030.	8.0	1,269
2	In situ ion exchange synthesis of the novel Ag/AgBr/BiOBr hybrid with highly efficient decontamination of pollutants. Chemical Communications, 2011, 47, 7054.	4.1	433
3	Composite of CH ₃ NH ₃ PbI ₃ with Reduced Graphene Oxide as a Highly Efficient and Stable Visible-Light Photocatalyst for Hydrogen Evolution in Aqueous HI Solution. Advanced Materials, 2018, 30, 1704342.	21.0	302
4	Hydrogenated titania: synergy of surface modification and morphology improvement for enhanced photocatalytic activity. Chemical Communications, 2012, 48, 5733.	4.1	285
5	Honeycomb Carbon Nanofibers: A Superhydrophilic O ₂ -Entrapping Electrocatalyst Enables Ultrahigh Mass Activity for the Two-Electron Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2021, 60, 10583-10587.	13.8	219
6	Cu ₂ O Nanoparticles with Both {100} and {111} Facets for Enhancing the Selectivity and Activity of CO ₂ Electroreduction to Ethylene. Advanced Science, 2020, 7, 1902820.	11.2	196
7	High-Performance Electrochemical NO Reduction into NH ₃ by MoS ₂ Nanosheet. Angewandte Chemie - International Edition, 2021, 60, 25263-25268.	13.8	180
8	Ambient Ammonia Synthesis via Electrochemical Reduction of Nitrate Enabled by NiCo ₂ O ₄ Nanowire Array. Small, 2022, 18, e2106961.	10.0	171
9	Synthesis of synergetic phosphorus and cyano groups (C N) modified g-C ₃ N ₄ for enhanced photocatalytic H ₂ production and CO ₂ reduction under visible light irradiation. Applied Catalysis B: Environmental, 2018, 232, 521-530.	20.2	162
10	Metallic zinc- assisted synthesis of Ti ³⁺ -self-doped TiO ₂ with tunable phase composition and visible-light photocatalytic activity. Chemical Communications, 2013, 49, 868-870.	4.1	159
11	Enhancing the Photocatalytic Hydrogen Evolution Activity of Mixed-Halide Perovskite CH ₃ NH ₃ PbBr ₃ Achieved by Bandgap Funneling of Charge Carriers. ACS Catalysis, 2018, 8, 10349-10357.	11.2	159
12	Doping strategy to promote the charge separation in BiVO ₄ photoanodes. Applied Catalysis B: Environmental, 2017, 211, 258-265.	20.2	156
13	Preparation of a morph-genetic CaO-based sorbent using paper fibre as a biotemplate for enhanced CO ₂ capture. Chemical Engineering Journal, 2019, 361, 235-244.	12.7	139
14	Adsorption of gaseous ethylene via induced polarization on plasmonic photocatalyst Ag/AgCl/TiO ₂ and subsequent photodegradation. Applied Catalysis B: Environmental, 2018, 220, 356-361.	20.2	134
15	In-situ phosphating to synthesize Ni ₂ P decorated NiO/g-C ₃ N ₄ p-n junction for enhanced photocatalytic hydrogen production. Chemical Engineering Journal, 2019, 378, 122161.	12.7	133
16	WS ₂ /Graphitic Carbon Nitride Heterojunction Nanosheets Decorated with CdS Quantum Dots for Photocatalytic Hydrogen Production. ChemSusChem, 2018, 11, 1187-1197.	6.8	129
17	Fabrication of carbon bridged g-C ₃ N ₄ through supramolecular self-assembly for enhanced photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 229, 114-120.	20.2	128
18	Perovskite photocatalyst CsPbBr ₃ -xlx with a bandgap funnel structure for H ₂ evolution under visible light. Applied Catalysis B: Environmental, 2019, 245, 522-527.	20.2	127

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19	Light-Promoted CO ₂ Conversion from Epoxides to Cyclic Carbonates at Ambient Conditions over a Bi-Based Metal-Organic Framework. <i>ACS Catalysis</i> , 2021, 11, 1988-1994.	11.2	117
20	High-efficient electrocatalytic overall water splitting over vanadium doped hexagonal Ni _{0.2} Mo _{0.8} N. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118330.	20.2	111
21	TiO ₂ /Ti ₃ C ₂ as an efficient photocatalyst for selective oxidation of benzyl alcohol to benzaldehyde. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119885.	20.2	111
22	Design and synthesis of porous M-ZnO/CeO ₂ microspheres as efficient plasmonic photocatalysts for nonpolar gaseous molecules oxidation: Insight into the role of oxygen vacancy defects and M=Ag, Au nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118151.	20.2	110
23	2D/2D heterostructure of ultrathin BiVO ₄ /Ti ₃ C ₂ nanosheets for photocatalytic overall Water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119855.	20.2	109
24	Lead-free Halide Perovskite Cs ₃ Bi ₂ IX ₂ Sb ₂ (X=I, Cl) Possessing the Photocatalytic Activity for Hydrogen Evolution Comparable to that of (CH ₃ NH ₃)PbI ₃ . <i>Advanced Materials</i> , 2020, 32, e2001344.	21.0	107
25	Efficient photocatalytic H ₂ production via rational design of synergistic spatially-separated dual cocatalysts modified Mn _{0.5} Cd _{0.5} S photocatalyst under visible light irradiation. <i>Chemical Engineering Journal</i> , 2018, 337, 480-487.	12.7	102
26	Electrocatalytic hydrogen peroxide production in acidic media enabled by NiS ₂ nanosheets. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6117-6122.	10.3	102
27	Multiple carrier-transfer pathways in a flower-like In ₂ S ₃ /CdIn ₂ S ₄ /In ₂ O ₃ ternary heterostructure for enhanced photocatalytic hydrogen production. <i>Nanoscale</i> , 2018, 10, 7860-7870.	5.6	98
28	An organometal halide perovskite supported Pt single-atom photocatalyst for H ₂ evolution. <i>Energy and Environmental Science</i> , 2022, 15, 1271-1281.	30.8	97
29	Electrocatalytic nitrogen reduction on the transition-metal dimer anchored N-doped graphene: performance prediction and synergetic effect. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4018-4029.	2.8	90
30	Sulfuration of NiV-layered double hydroxide towards novel supercapacitor electrode with enhanced performance. <i>Chemical Engineering Journal</i> , 2018, 351, 119-126.	12.7	89
31	Synthesis of a WO ₃ photocatalyst with high photocatalytic activity and stability using synergetic internal Fe ³⁺ doping and superficial Pt loading for ethylene degradation under visible-light irradiation. <i>Catalysis Science and Technology</i> , 2019, 9, 652-658.	4.1	86
32	Boosting the electrocatalytic HER performance of Ni ₃ N-V ₂ O ₃ via the interface coupling effect. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119590.	20.2	84
33	Selective photocatalytic conversion of alcohol to aldehydes by singlet oxygen over Bi-based metal-organic frameworks under UV-vis light irradiation. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 463-470.	20.2	83
34	Photocatalytic hydrogen evolution on P-type tetragonal zircon BiVO ₄ . <i>Applied Catalysis B: Environmental</i> , 2019, 251, 94-101.	20.2	82
35	Photocatalytic Selective Oxidation of HMF Coupled with H ₂ Evolution on Flexible Ultrathin g-C ₃ N ₄ Nanosheets with Enhanced N-H Interaction. <i>ACS Catalysis</i> , 2022, 12, 1919-1929.	11.2	82
36	Anisotropic Photoelectrochemical (PEC) Performances of ZnO Single-Crystalline Photoanode: Effect of Internal Electrostatic Fields on the Separation of Photogenerated Charge Carriers during PEC Water Splitting. <i>Chemistry of Materials</i> , 2016, 28, 6613-6620.	6.7	81

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37	Co ₃ (hexaiminotriphenylene) ₂ : A conductive two-dimensional π -conjugated metal-organic framework for highly efficient oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119295.	20.2	80
38	Conductive Two-Dimensional Magnesium Metal-Organic Frameworks for High-Efficiency O ₂ Electroreduction to H ₂ O ₂ . <i>ACS Catalysis</i> , 2022, 12, 6092-6099.	11.2	78
39	Enhancing electrocatalytic N ₂ -to-NH ₃ fixation by suppressing hydrogen evolution with alkylthiols modified Fe ₃ P nanoarrays. <i>Nano Research</i> , 2022, 15, 1039-1046.	10.4	74
40	Highly efficient electrocatalytic hydrogen evolution coupled with upcycling of microplastics in seawater enabled via Ni ₃ N/W ₅ N ₄ janus nanostructures. <i>Applied Catalysis B: Environmental</i> , 2022, 307, 121198.	20.2	72
41	Thermochemical energy storage performance of Al ₂ O ₃ /CeO ₂ co-doped CaO-based material under high carbonation pressure. <i>Applied Energy</i> , 2020, 263, 114650.	10.1	70
42	Enabling multifunctional electrocatalysts by modifying the basal plane of unifunctional 1T-MoS ₂ with anchored transition metal single atoms. <i>Nanoscale</i> , 2021, 13, 13390-13400.	5.6	69
43	Enhanced Electrochemical H ₂ O ₂ Production via Two-Electron Oxygen Reduction Enabled by Surface-Derived Amorphous Oxygen-Deficient TiO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33182-33187.	8.0	67
44	Noble-metal-free Fe ₂ -Co ₂ P co-catalyst boosting visible-light-driven photocatalytic hydrogen production over graphitic carbon nitride: The synergistic effects between the metal phosphides. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4133-4142.	7.1	66
45	Accelerated electrocatalytic hydrogen evolution on non-noble metal containing trinickel nitride by introduction of vanadium nitride. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5513-5521.	10.3	65
46	CeO ₂ -modified CaO/Ca ₁₂ Al ₁₄ O ₃₃ bi-functional material for CO ₂ capture and H ₂ production in sorption-enhanced steam gasification of biomass. <i>Energy</i> , 2020, 192, 116664.	8.8	64
47	Fabrication and CO ₂ capture performance of magnesia-stabilized carbide slag by by-product of biodiesel during calcium looping process. <i>Applied Energy</i> , 2016, 168, 85-95.	10.1	63
48	DFT study of CO ₂ adsorption across a CaO/Ca ₁₂ Al ₁₄ O ₃₃ sorbent in the presence of H ₂ O under calcium looping conditions. <i>Chemical Engineering Journal</i> , 2019, 370, 10-18.	12.7	63
49	Synthesis of MoS ₂ /Ni ₃ S ₂ heterostructure for efficient electrocatalytic hydrogen evolution reaction through optimizing the sulfur sources selection. <i>Applied Surface Science</i> , 2018, 459, 422-429.	6.1	60
50	Carbon nanosheet facilitated charge separation and transfer between molybdenum carbide and graphitic carbon nitride toward efficient photocatalytic H ₂ production. <i>Applied Surface Science</i> , 2019, 473, 91-101.	6.1	59
51	CaO/Ca(OH) ₂ thermochemical heat storage of carbide slag from calcium looping cycles for CO ₂ capture. <i>Energy Conversion and Management</i> , 2018, 174, 8-19.	9.2	57
52	Enhancing the Photoelectrochemical Water Oxidation Reaction of BiVO ₄ Photoanode by Employing Carbon Spheres as Electron Reservoirs. <i>ACS Catalysis</i> , 2020, 10, 13031-13039.	11.2	57
53	Theoretical insights into the electroreduction of nitrate to ammonia on graphene-based single-atom catalysts. <i>Nanoscale</i> , 2022, 14, 10862-10872.	5.6	57
54	Co ₃ O ₄ nanobelt arrays assembled with ultrathin nanosheets as highly efficient and stable electrocatalysts for the chlorine evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12718-12723.	10.3	55

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55	Effect of the intra- and inter-triazine N-vacancies on the photocatalytic hydrogen evolution of graphitic carbon nitride. <i>Chemical Engineering Journal</i> , 2019, 369, 263-271.	12.7	55
56	Two-dimensional π -conjugated metal-organic framework $\text{Fe}_3(\text{hexaiminotriphenylene})_2$ as a photo-Fenton like catalyst for highly efficient degradation of antibiotics. <i>Applied Catalysis B: Environmental</i> , 2021, 290, 120029.	20.2	55
57	Electrochemical two-electron O_2 reduction reaction toward H_2O_2 production: using cobalt porphyrin decorated carbon nanotubes as a nanohybrid catalyst. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26019-26027.	10.3	55
58	Performance of Li_4SiO_4 Material for CO_2 Capture: A Review. <i>International Journal of Molecular Sciences</i> , 2019, 20, 928.	4.1	54
59	Efficient near-infrared photocatalysts based on $\text{NaYF}_4:\text{Yb}^{3+}, \text{Tm}^{3+} @ \text{NaYF}_4:\text{Yb}^{3+}, \text{Nd}^{3+} @ \text{TiO}_2$ core@shell nanoparticles. <i>Chemical Engineering Journal</i> , 2019, 361, 1089-1097.	12.7	53
60	Stress-induced BiVO_4 photoanode for enhanced photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 121012.	20.2	52
61	Coupling denitrification and ammonia synthesis <i>via</i> selective electrochemical reduction of nitric oxide over Fe_2O_3 nanorods. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6454-6462.	10.3	52
62	Oxygen Vacancy-Enhanced Singlet Oxygen Production for Selective Photocatalytic Oxidation. <i>ChemSusChem</i> , 2020, 13, 3488-3494.	6.8	51
63	One-step synthesis of Co-doped 1T- MoS_2 nanosheets with efficient and stable HER activity in alkaline solutions. <i>Materials Chemistry and Physics</i> , 2020, 244, 122642.	4.0	51
64	Surface Fluorination Engineering of NiFe Prussian Blue Analogue Derivatives for Highly Efficient Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5142-5152.	8.0	51
65	One-step synthesis of AgBr microcrystals with different morphologies by ILs-assisted hydrothermal method. <i>CrystEngComm</i> , 2011, 13, 1789.	2.6	50
66	Enhancing visible light photocatalytic activity of TiO_2 using a colorless molecule (2-methoxyethanol) due to hydrogen bond effect. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 230-236.	20.2	50
67	Ni_3B as a highly efficient and selective catalyst for the electrosynthesis of hydrogen peroxide. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119371.	20.2	48
68	Probing the Mechanism of Plasmon-Enhanced Ammonia Borane Methanolysis on a CuAg Alloy at a Single-Particle Level. <i>ACS Catalysis</i> , 2021, 11, 10814-10823.	11.2	48
69	Fabrication of BiVO_4 photoanode consisted of mesoporous nanoparticles with improved bulk charge separation efficiency. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 586-591.	20.2	47
70	Bias-Free Solar Water Splitting by Tetragonal Zircon BiVO_4 Nanocrystal Photocathode and Monoclinic Scheelite BiVO_4 Nanoporous Photoanode. <i>Advanced Functional Materials</i> , 2021, 31, 2008656.	14.9	45
71	In-situ growth of $\text{Ti}_3\text{C}_2 @ \text{MIL-NH}_2$ composite for highly enhanced photocatalytic H_2 evolution. <i>Chemical Engineering Journal</i> , 2021, 411, 128446.	12.7	45
72	Space-confined growth of lead-free halide perovskite $\text{Cs}_3\text{Bi}_2\text{Br}_9$ in MCM-41 molecular sieve as an efficient photocatalyst for CO_2 reduction at the gas-solid condition under visible light. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121375.	20.2	43

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73	Efficient spatial charge separation and transfer in ultrathin g-C ₃ N ₄ nanosheets modified with Cu ₂ MoS ₄ as a noble metal-free co-catalyst for superior visible light-driven photocatalytic water splitting. <i>Catalysis Science and Technology</i> , 2018, 8, 3883-3893.	4.1	42
74	Improved photocatalytic CO ₂ and epoxides cycloaddition via the synergistic effect of Lewis acidity and charge separation over Zn modified UiO-bpydc. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120793.	20.2	42
75	Plasmon-Mediated Nitrobenzene Hydrogenation with Formate as the Hydrogen Donor Studied at a Single-Particle Level. <i>ACS Catalysis</i> , 2021, 11, 3801-3809.	11.2	41
76	Plasmon-induced dehydrogenation of formic acid on Pd-dotted Ag@Au hexagonal nanoplates and single-particle study. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119226.	20.2	40
77	Photocatalytic Overall Water Splitting over MIL-125(Ti) upon CoPi and Pt Co-catalyst Deposition. <i>ChemistryOpen</i> , 2017, 6, 701-705.	1.9	39
78	Strain Adjustment Realizes the Photocatalytic Overall Water Splitting on Tetragonal Zircon BiVO ₄ . <i>Advanced Science</i> , 2022, 9, e2105299.	11.2	37
79	Electrodeposition of NiFe layered double hydroxide on Ni ₃ S ₂ nanosheets for efficient electrocatalytic water oxidation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 8659-8666.	7.1	35
80	Simultaneous SO ₂ /NO removal performance of carbide slag pellets by bagasse templating in a bubbling fluidized bed reactor. <i>Fuel Processing Technology</i> , 2018, 180, 75-86.	7.2	34
81	A water-stable triazine-based metal-organic framework as an efficient adsorbent of Pb(II) ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 560, 315-322.	4.7	34
82	Substrate-dependent ALD of Cu _x on TiO ₂ and its performance in photocatalytic CO ₂ reduction. <i>Chemical Engineering Journal</i> , 2021, 405, 126654.	12.7	34
83	CaO/CaCO ₃ thermochemical heat storage performance of CaO-based micrometre-sized tubular composite. <i>Energy Conversion and Management</i> , 2020, 222, 113222.	9.2	34
84	Molten-salt assisted synthesis of Cu clusters modified TiO ₂ with oxygen vacancies for efficient photocatalytic reduction of CO ₂ to CO. <i>Chemical Engineering Journal</i> , 2022, 445, 136718.	12.7	34
85	Intense Single Red Emission Induced by Near-Infrared Irradiation Using a Narrow Bandgap Oxide BiVO ₄ as the Host for Yb ³⁺ and Tm ³⁺ Ions. <i>Advanced Optical Materials</i> , 2018, 6, 1701331.	7.3	33
86	CO ₂ capture by a novel CaO/MgO sorbent fabricated from industrial waste and dolomite under calcium looping conditions. <i>New Journal of Chemistry</i> , 2019, 43, 5116-5125.	2.8	33
87	Density Functional Theory Study on CO ₂ Adsorption by Ce-Promoted CaO in the Presence of Steam. <i>Energy & Fuels</i> , 2020, 34, 6197-6208.	5.1	31
88	Boron containing metal-organic framework for highly selective photocatalytic production of H ₂ O ₂ by promoting two-electron O ₂ reduction. <i>Materials Horizons</i> , 2021, 8, 2842-2850.	12.2	31
89	Plasmon-Enhanced Water Activation for Hydrogen Evolution from Ammonia-Borane Studied at a Single-Particle Level. <i>ACS Catalysis</i> , 2022, 12, 3558-3565.	11.2	31
90	Development of Mn/Mg-copromoted carbide slag for efficient CO ₂ capture under realistic calcium looping conditions. <i>Chemical Engineering Research and Design</i> , 2020, 141, 380-389.	5.6	30

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91	Two transition metal phosphonate photocatalysts for H ₂ evolution and CO ₂ reduction. <i>Chemical Communications</i> , 2018, 54, 7195-7198.	4.1	28
92	ZnO nanorod decorated by Au-Ag alloy with greatly increased activity for photocatalytic ethylene oxidation. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1613-1621.	14.0	28
93	Simultaneous NO/CO ₂ removal performance of biochar/limestone in calcium looping process. <i>Fuel</i> , 2020, 262, 116428.	6.4	27
94	Simultaneous NO/CO ₂ removal by Cu-modified biochar/CaO in carbonation step of calcium looping process. <i>Chemical Engineering Journal</i> , 2020, 392, 123659.	12.7	27
95	Ag ₂ ZnSnS ₄ /Mo-mesh photoelectrode prepared by electroplating for efficient photoelectrochemical hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1647-1657.	10.3	26
96	Ag ⁺ quantum dots obtained via in situ photodeposition method as photocatalytic CO ₂ reduction cocatalyst: Borrowing redox conversion between Ag ⁺ and Ag ₂ O. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 381-385.	20.2	26
97	Honeycomb Carbon Nanofibers: A Superhydrophilic O ₂ Trapping Electrocatalyst Enables Ultrahigh Mass Activity for the Two-Electron Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2021, 133, 10677-10681.	2.0	26
98	Enhanced selectivity and activity for electrocatalytic reduction of CO ₂ to CO on an anodized Zn/carbon/Ag electrode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16685-16689.	10.3	25
99	Boosting H ₂ Production from a BiVO ₄ Photoelectrochemical Biomass Fuel Cell by the Construction of a Bridge for Charge and Energy Transfer. <i>Advanced Materials</i> , 2022, 34, e2201594.	21.0	24
100	Tailoring the composition and structure of Ni ₃ S ₂ by introduction of Co towards high efficiency energy storage device. <i>Chemical Engineering Journal</i> , 2021, 403, 126285.	12.7	23
101	Nitrogen vacancy enhanced photocatalytic selective oxidation of benzyl alcohol in g-C ₃ N ₄ . <i>International Journal of Hydrogen Energy</i> , 2021, 46, 37782-37791.	7.1	23
102	TiN nanosheet arrays on Ti foils for high-performance supercapacitance. <i>RSC Advances</i> , 2018, 8, 12841-12847.	3.6	22
103	ZnO nanorods modified with noble metal-free Co ₃ O ₄ nanoparticles as a photocatalyst for efficient ethylene degradation under light irradiation. <i>Catalysis Science and Technology</i> , 2019, 9, 6191-6198.	4.1	22
104	Oxygen vacancy enhancing CO ₂ electrochemical reduction to CO on Ce-doped ZnO catalysts. <i>Surfaces and Interfaces</i> , 2021, 23, 100923.	3.0	22
105	Targeted Regulation of the Electronic States of Nickel Toward the Efficient Electrosynthesis of Benzonitrile and Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56140-56150.	8.0	21
106	Atomically dispersed cobalt-based species anchored on polythiophene as an efficient electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , 2021, 545, 148943.	6.1	19
107	Photo-induced photo-thermal synergy effect leading to efficient CO ₂ cycloaddition with epoxide over a Fe-based metal organic framework. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 33-40.	9.4	19
108	Enhanced electrocatalytic HER performance of non-noble metal nickel by introduction of divanadium trioxide. <i>Electrochimica Acta</i> , 2019, 320, 134535.	5.2	18

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109	Monomolecular VB ₂ -doped MOFs for photocatalytic oxidation with enhanced stability, recyclability and selectivity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26934-26943.	10.3	18
110	Molybdenum Nitride Electrocatalysts for Hydrogen Evolution More Efficient than Platinum/Carbon: Mo ₂ N/CeO ₂ @Nickel Foam. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29153-29161.	8.0	18
111	Understanding the enhancement of CaO on water gas shift reaction for H ₂ production by density functional theory. <i>Fuel</i> , 2021, 303, 121257.	6.4	18
112	Enhanced photocatalytic hydrogen evolution of CdWO ₄ through polar organic molecule modification. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4754-4763.	7.1	17
113	Photocatalytic anticancer performance of naked Ag/AgCl nanoparticles. <i>Chemical Engineering Journal</i> , 2022, 428, 131265.	12.7	17
114	In Situ Monitoring Charge Transfer on Topotactic Epitaxial Heterointerface for Tetracycline Degradation at the Single-Particle Level. <i>ACS Catalysis</i> , 2022, 12, 9114-9124.	11.2	17
115	Cd-MoS ₂ heterostructures on Mo substrates via in situ sulfurization for efficient photoelectrochemical hydrogen generation. <i>RSC Advances</i> , 2017, 7, 44626-44631.	3.6	16
116	Energy storage and attrition performance of limestone under fluidization during CaO/CaCO ₃ cycles. <i>Energy</i> , 2020, 207, 118291.	8.8	16
117	CaO/Ca(OH) ₂ heat storage performance of hollow nanostructured CaO-based material from Ca-looping cycles for CO ₂ capture. <i>Fuel Processing Technology</i> , 2021, 217, 106834.	7.2	16
118	Synergistic effect between boron containing metal-organic frameworks and light leading to enhanced CO ₂ cycloaddition with epoxides. <i>Chemical Engineering Journal</i> , 2022, 437, 135363.	12.7	16
119	Formation mechanism of rectangular-ambulatory-plane TiO ₂ plates: an insight into the role of hydrofluoric acid. <i>Chemical Communications</i> , 2018, 54, 7191-7194.	4.1	15
120	Enhanced singlet oxygen production over a photocatalytic stable metal organic framework composed of porphyrin and Ag. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 300-306.	9.4	15
121	Promoting Electrocatalytic Reduction of CO ₂ to C ₂ H ₄ Production by Inhibiting C ₂ H ₅ OH Desorption from Cu ₂ O/C Composite. <i>Small</i> , 2022, 18, e2105212.	10.0	15
122	BiVO ₄ quadrangular nanoprisms with highly exposed {101} facets for selective photocatalytic oxidation of benzylamine. <i>Journal of Materials Chemistry A</i> , 2022, 10, 19699-19709.	10.3	15
123	Effects of Ag Incorporation on the Band Structures and Conductivity Types of (Cu _{1-x} Ag _x) ₂ ZnSnS ₄ Solid Solutions. <i>ChemPhotoChem</i> , 2018, 2, 811-817.	3.0	14
124	Enhanced photocatalytic activity towards H ₂ evolution over NiO via phosphonic acid surface modification with different functional groups. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16575-16581.	7.1	14
125	Post-synthetic platinum complex modification of a triazine based metal organic frameworks for enhanced photocatalytic H ₂ evolution. <i>Journal of Solid State Chemistry</i> , 2019, 271, 260-265.	2.9	14
126	In situ integration of Fe ₃ N@Co ₄ N@CoFe alloy nanoparticles as efficient and stable electrocatalyst for overall water splitting. <i>Electrochimica Acta</i> , 2021, 395, 139218.	5.2	14

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127	CaO/H ₂ O Thermochemical Heat Storage Capacity of a CaO/CeO ₂ Composite from CO ₂ Capture Cycles. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16741-16750.	3.7	13
128	The effect of Cu on NO reduction by char with density functional theory in carbonation stage of calcium looping. <i>Fuel</i> , 2021, 283, 119332.	6.4	13
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