

Jiaguo Yu

List of Publications by Year in descending order

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802
papers

163,388
citations

14

206
h-index

69

373
g-index

820
all docs

820
docs citations

820
times ranked

61718
citing authors

#	ARTICLE	IF	CITATIONS
1	TiO ₂ /In ₂ S ₃ S-scheme photocatalyst with enhanced H ₂ O ₂ -production activity. Nano Research, 2023, 16, 4506-4514.	10.4	85
2	C ₃ N ₄ /PDA S-scheme Heterojunction with Enhanced Photocatalytic H ₂ O ₂ Production Performance and Its Mechanism. Advanced Sustainable Systems, 2023, 7, .	5.3	47
3	Donor-Acceptor Modification of Carbon Nitride for Enhanced Photocatalytic Hydrogen Evolution. Advanced Sustainable Systems, 2023, 7, .	5.3	14
4	Recent advances in electro-Fenton process and its emerging applications. Critical Reviews in Environmental Science and Technology, 2023, 53, 887-913.	12.8	57
5	Sulfide-Based Nickel-Plated Fabrics for Foldable Quasi-Solid-State Supercapacitors. Energy and Environmental Materials, 2022, 5, 883-891.	12.8	19
6	BiOBr/NiO S-scheme Heterojunction Photocatalyst for CO ₂ Photoreduction. Solar Rrl, 2022, 6, 2100587.	5.8	96
7	A novel electro-Fenton process coupled with sulfite: Enhanced Fe ³⁺ reduction and TOC removal. Journal of Hazardous Materials, 2022, 422, 126888.	12.4	38
8	EPR Investigation on Electron Transfer of 2D/3D g-C ₃ N ₄ /ZnO S-scheme Heterojunction for Enhanced CO ₂ Photoreduction. Advanced Sustainable Systems, 2022, 6, 2100264.	5.3	112
9	Inorganic Metal-Oxide Photocatalyst for H ₂ O ₂ Production. Small, 2022, 18, e2104561.	10.0	152
10	Hierarchical Co ₃ O ₄ -NiO hollow dodecahedron-supported Pt for room-temperature catalytic formaldehyde decomposition. Chemical Engineering Journal, 2022, 430, 132715.	12.7	35
11	S-doped MIL-53 as efficient heterogeneous electro-Fenton catalyst for degradation of sulfamethazine at circumneutral pH. Journal of Hazardous Materials, 2022, 424, 127674.	12.4	41
12	Optimizing Atomic Hydrogen Desorption of Sulfur-Rich NiS _{1+x} Cocatalyst for Boosting Photocatalytic H ₂ Evolution. Advanced Materials, 2022, 34, e2108475.	21.0	156
13	Enhanced electricity generation and tetracycline removal of bioelectro-Fenton with electroactive biofilm induced by multi external resistance. Chemosphere, 2022, 289, 133070.	8.2	5
14	Metal-organic framework with atomically dispersed Ni-N ₄ sites for greatly-raised visible-light photocatalytic H ₂ production. Chemical Engineering Journal, 2022, 431, 133944.	12.7	20
15	Engineering 2D NiO/Ni ₃ S ₂ heterointerface electrocatalyst for highly efficient hydrogen production coupled with benzyl alcohol oxidation. Chemical Engineering Journal, 2022, 431, 134137.	12.7	30
16	Enhanced degradation of 2,4-dichlorophenoxyacetic acid by electro-fenton in flow-through system using B, Co-TNT anode. Chemosphere, 2022, 292, 133470.	8.2	12
17	ZIF-8 derived ZnO-CsPbBr ₃ polyhedrons for efficient triethylamine detection. Sensors and Actuators B: Chemical, 2022, 357, 131366.	7.8	22
18	Synthesis of MgNiCo LDH hollow structure derived from ZIF-67 as superb adsorbent for Congo red. Journal of Colloid and Interface Science, 2022, 612, 598-607.	9.4	83

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19	Solar fuel generation over nature-inspired recyclable TiO ₂ /g-C ₃ N ₄ S-scheme hierarchical thin-film photocatalyst. <i>Journal of Materials Science and Technology</i> , 2022, 112, 1-10.	10.7	101
20	Emerging S-scheme Photocatalyst. <i>Advanced Materials</i> , 2022, 34, e2107668.	21.0	717
21	Sandwich-shell Structured CoMn ₂ O ₄ /C Hollow Nanospheres for Performance-enhanced Sodium-Ion Hybrid Supercapacitor. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	101
22	A figure of merits-based performance comparison of various advanced functional nanomaterials for adsorptive removal of gaseous ammonia. <i>Science of the Total Environment</i> , 2022, 822, 153428.	8.0	9
23	WO ₃ Nanosheet-Supported IrW Alloy for High-Performance Acidic Overall Water Splitting with Low Ir Loading. <i>ACS Applied Energy Materials</i> , 2022, 5, 970-980.	5.1	15
24	Aminopolycarboxylic acids modified oxygen reduction by zero valent iron: Proton-coupled electron transfer, role of iron ion and reactive oxidant generation. <i>Journal of Hazardous Materials</i> , 2022, 430, 128402.	12.4	15
25	New progress on MXenes-based nanocomposite photocatalysts. <i>Materials Reports Energy</i> , 2022, 2, 100081.	3.2	7
26	CO ₂ capture and in situ photocatalytic reduction. <i>Chem Catalysis</i> , 2022, 2, 428-430.	6.1	11
27	Modulating the Electronic Metal-Support Interactions in Single-Atom Pt ₁ -CuO Catalyst for Boosting Acetone Oxidation. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4
28	Modulating the Electronic Metal-Support Interactions in Single-Atom Pt ₁ -CuO Catalyst for Boosting Acetone Oxidation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	46
29	S-scheme ZnO/WO ₃ heterojunction photocatalyst for efficient H ₂ O ₂ production. <i>Journal of Materials Science and Technology</i> , 2022, 124, 193-201.	10.7	108
30	Nickel-cobalt selenide@N-doped carbon towards high-performance anode materials for sodium-ion batteries. <i>Journal of Energy Storage</i> , 2022, 51, 104522.	8.1	19
31	Step-by-Step Mechanism Insights into the TiO ₂ /Ce ₂ S ₃ S-Scheme Photocatalyst for Enhanced Aniline Production with Water as a Proton Source. <i>ACS Catalysis</i> , 2022, 12, 164-172.	11.2	117
32	Semiconductor Gas Sensor for Triethylamine Detection. <i>Small</i> , 2022, 18, e2104984.	10.0	50
33	A Comparative Study of Cobalt Chalcogenides as the Electrode Materials on Lithium-Sulfur Battery Performance. <i>Small Methods</i> , 2022, 6, e2101269.	8.6	14
34	Synergy between Platinum and Gold Nanoparticles in Oxygen Activation for Enhanced Room-Temperature Formaldehyde Oxidation. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	37
35	Additive-mediated intercalation and surface modification of MXenes. <i>Chemical Society Reviews</i> , 2022, 51, 2972-2990.	38.1	101
36	Non-Noble Plasmonic Metal-Based Photocatalysts. <i>Chemical Reviews</i> , 2022, 122, 10484-10537.	47.7	268

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37	Building dual active sites Co ₃ O ₄ /Cu electrode to break scaling relations for enhancement of electrochemical reduction of nitrate to high-value ammonia. Journal of Hazardous Materials, 2022, 434, 128887.	12.4	25
38	Pt-Ru Dimer Electrocatalyst with Electron Redistribution for Hydrogen Evolution Reaction. ACS Catalysis, 2022, 12, 5540-5548.	11.2	58
39	Promoting intramolecular charge transfer of graphitic carbon nitride by donor-acceptor modulation for visible-light photocatalytic H ₂ evolution. , 2022, 1, 294-308.		92
40	Hollow carbon sphere-supported Pt/CoO hybrid with excellent hydrogen evolution activity and stability in acidic environment. Applied Catalysis B: Environmental, 2022, 314, 121503.	20.2	34
41	Challenges for photocatalytic overall water splitting. Chem, 2022, 8, 1567-1574.	11.7	329
42	ZnO/COF S-scheme heterojunction for improved photocatalytic H ₂ O ₂ production performance. Chemical Engineering Journal, 2022, 444, 136584.	12.7	94
43	S-Scheme 2D/2D Bi ₂ MoO ₆ /BiOI van der Waals heterojunction for CO ₂ photoreduction. Chinese Journal of Catalysis, 2022, 43, 1657-1666.	14.0	75
44	Dynamics of Photogenerated Charge Carriers in Inorganic/Organic S-Scheme Heterojunctions. Journal of Physical Chemistry Letters, 2022, 13, 4695-4700.	4.6	62
45	Electron-enriched regulation of sulfur-active site for accelerating atomic hydrogen desorption of S-rich MoWS ₂ + cocatalyst toward efficient photocatalytic H ₂ evolution of TiO ₂ . Chemical Engineering Journal, 2022, 449, 137803.	12.7	17
46	Introductory chapter: Fundamentals of photocatalysis and electrocatalysis. , 2022, , 1-30.		0
47	Graphene oxide-based modified electrodes for high-performance supercapacitors. , 2022, , 239-266.		0
48	Graphene oxide-based photocatalysts for environmental purification. , 2022, , 135-172.		0
49	Graphene oxide-based heterojunction photocatalysts. , 2022, , 173-188.		0
50	Graphdiyne-based photocatalysts for solar fuel production. Green Chemistry, 2022, 24, 5739-5754.	9.0	30
51	Graphene oxide-based photocatalysts for CO ₂ reduction. , 2022, , 93-134.		0
52	Graphene oxide-based materials in electrocatalysis. , 2022, , 189-238.		0
53	Graphene oxide-based photocatalysts for H ₂ production. , 2022, , 65-92.		1
54	Cadmium Chalcogenide (CdS, CdSe, CdTe) Quantum Dots for Solar-Fuel Conversion. Advanced Photonics Research, 2022, 3, .	3.6	25

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55	H ₂ O molecule adsorption on s-triazine-based g-C ₃ N ₄ . Chinese Journal of Catalysis, 2021, 42, 115-122.	14.0	42
56	Zn CdS quantum dot with enhanced photocatalytic H ₂ -production performance. Chinese Journal of Catalysis, 2021, 42, 15-24.	14.0	79
57	Sulfur-doped g-C ₃ N ₄ /TiO ₂ S-scheme heterojunction photocatalyst for Congo Red photodegradation. Chinese Journal of Catalysis, 2021, 42, 56-68.	14.0	493
58	Review on nickel-based adsorption materials for Congo red. Journal of Hazardous Materials, 2021, 403, 123559.	12.4	148
59	S-scheme heterojunction based on p-type ZnMn ₂ O ₄ and n-type ZnO with improved photocatalytic CO ₂ reduction activity. Chemical Engineering Journal, 2021, 409, 127377.	12.7	269
60	Selenium-enriched amorphous NiSe _{1+x} nanoclusters as a highly efficient cocatalyst for photocatalytic H ₂ evolution. Chemical Engineering Journal, 2021, 408, 127230.	12.7	60
61	Iron-based persulfate activation process for environmental decontamination in water and soil. Chemosphere, 2021, 265, 129057.	8.2	122
62	Enhanced photocatalytic H ₂ production performance of CdS hollow spheres using C and Pt as bi-cocatalysts. Chinese Journal of Catalysis, 2021, 42, 743-752.	14.0	67
63	Synthesis of reduced graphene oxide supported nickel-cobalt-layered double hydroxide nanosheets for supercapacitors. Journal of Colloid and Interface Science, 2021, 588, 637-645.	9.4	156
64	Design of highly-active photocatalytic materials for solar fuel production. Chemical Engineering Journal, 2021, 421, 127732.	12.7	27
65	Significant capacitance enhancement induced by cyclic voltammetry in pine needle-like Ni-Co-Cu multicomponent electrode. Journal of Materials Science and Technology, 2021, 78, 100-109.	10.7	13
66	Hetero-phase MoC-Mo ₂ C nanoparticles for enhanced photocatalytic H ₂ -production activity of TiO ₂ . Nano Research, 2021, 14, 1095-1102.	10.4	57
67	Degradation of 2,4-dichlorophenoxyacetic acid by a novel photoelectrocatalysis/photoelectro-Fenton process using Blue-TiO ₂ nanotube arrays as the anode. Chemosphere, 2021, 266, 129063.	8.2	17
68	Hollow CdS-based photocatalysts. Journal of Materiomics, 2021, 7, 419-439.	5.7	72
69	One-Step Realization of Crystallization and Cyano Group Generation for g-C ₃ N ₄ Photocatalysts with Improved H ₂ Production. Solar Rrl, 2021, 5, 2000372.	5.8	91
70	Hydroxyl-enriched highly crystalline TiO ₂ suspensible photocatalyst: facile synthesis and superior H ₂ -generation activity. Chemical Communications, 2021, 57, 2025-2028.	4.1	15
71	Electrospun TiO ₂ -Based Photocatalysts. Solar Rrl, 2021, 5, 2000571.	5.8	46
72	Highly dispersed MoS _x nanodot-modified TiO ₂ photocatalysts: vitamin C-mediated synthesis and improved H ₂ evolution activity. Journal of Materials Chemistry C, 2021, 9, 3239-3246.	5.5	27

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73	Design, Fabrication, and Mechanism of Nitrogen-Doped Graphene-Based Photocatalyst. <i>Advanced Materials</i> , 2021, 33, e2003521.	21.0	324
74	Near-Infrared-Responsive Photocatalysts. <i>Small Methods</i> , 2021, 5, e2001042.	8.6	84
75	Enhanced solar-to-chemical energy conversion of graphitic carbon nitride by two-dimensional cocatalysts. <i>EnergyChem</i> , 2021, 3, 100051.	19.1	87
76	Triethylamine gas sensor based on Pt-functionalized hierarchical ZnO microspheres. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129425.	7.8	174
77	In Situ Synthesis of Mo ₂ C Nanoparticles on Graphene Nanosheets for Enhanced Photocatalytic H ₂ -Production Activity of TiO ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3828-3837.	6.7	56
78	An Inorganic/Organic S-Scheme Heterojunction H ₂ -Production Photocatalyst and its Charge Transfer Mechanism. <i>Advanced Materials</i> , 2021, 33, e2100317.	21.0	528
79	Anchoring single Pt atoms and black phosphorene dual co-catalysts on CdS nanospheres to boost visible-light photocatalytic H ₂ evolution. <i>Nano Today</i> , 2021, 37, 101080.	11.9	105
80	Enhanced photocatalytic activity and mechanism of CeO ₂ hollow spheres for tetracycline degradation. <i>Rare Metals</i> , 2021, 40, 2369-2380.	7.1	44
81	Pt Single Atoms Supported on N-Doped Mesoporous Hollow Carbon Spheres with Enhanced Electrochemical H ₂ -Evolution Activity. <i>Advanced Materials</i> , 2021, 33, e2008599.	21.0	314
82	Ultra-Thin Carbon-Doped Bi ₂ WO ₆ Nanosheets for Enhanced Photocatalytic CO ₂ Reduction. <i>Transactions of Tianjin University</i> , 2021, 27, 338-347.	6.4	29
83	A 3D Hierarchical Ti ₃ C ₂ T _x /TiO ₂ Heterojunction for Enhanced Photocatalytic CO ₂ Reduction. <i>ChemNanoMat</i> , 2021, 7, 910-915.	2.8	14
84	In-situ growth of few-layer graphene on ZnO with intimate interfacial contact for enhanced photocatalytic CO ₂ reduction activity. <i>Chemical Engineering Journal</i> , 2021, 411, 128501.	12.7	99
85	Synergistic Effect of Co(III) and Co(II) in a 3D Structured Co ₃ O ₄ /Carbon Felt Electrode for Enhanced Electrochemical Nitrate Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28348-28358.	8.0	66
86	Selenium-Rich Configuration and Amorphization for Synergistically Maximizing the Active-Center Amount of CoSe _{1+x} Nanodots toward Efficient Photocatalytic H ₂ Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8653-8662.	6.7	22
87	Emerging Solar Photocatalysis. <i>Solar Rrl</i> , 2021, 5, 2100252.	5.8	5
88	Mechanistic Insight into the Heterogeneous Electro-Fenton/Sulfite Process for Ultraefficient Degradation of Pollutants over a Wide pH Range. <i>ACS ES&T Water</i> , 2021, 1, 1637-1647.	4.6	28
89	DFT Study on Regulating the Electronic Structure and CO ₂ Reduction Reaction in BiOBr/Sulphur-Doped C ₃ N ₄ S-Scheme Heterojunctions. <i>Frontiers in Nanotechnology</i> , 2021, 3, .	4.8	33
90	A high-response formaldehyde sensor based on fibrous Ag-ZnO/In ₂ O ₃ with multi-level heterojunctions. <i>Journal of Hazardous Materials</i> , 2021, 413, 125352.	12.4	97

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91	TiO ₂ /polydopamine S-scheme heterojunction photocatalyst with enhanced CO ₂ -reduction selectivity. Applied Catalysis B: Environmental, 2021, 289, 120039.	20.2	302
92	A continuous flow-through system with integration of electrosorption and peroxi-coagulation for efficient removal of organics. Chemosphere, 2021, 274, 129983.	8.2	14
93	Analytical transmission electron microscopy for emerging advanced materials. Matter, 2021, 4, 2309-2339.	10.0	71
94	Influence of calcination temperature on photocatalytic H ₂ O ₂ productivity of hierarchical porous ZnO microspheres. Nanotechnology, 2021, 32, 415402.	2.6	10
95	Trace FeCu@PC Derived from MOFs for Ultraefficient Heterogeneous Electro-Fenton Process: Enhanced Electron Transfer and Bimetallic Synergy. ACS ES&T Engineering, 2021, 1, 1311-1322.	7.6	41
96	Enhancement in the photocatalytic H ₂ production activity of CdS NRs by Ag ₂ S and NiS dual cocatalysts. Applied Catalysis B: Environmental, 2021, 288, 119994.	20.2	189
97	Hydrogen-bond activation of N ₂ molecules and photocatalytic nitrogen fixation. Chem, 2021, 7, 1983-1985.	11.7	37
98	Few-layered Mo ₂ W ₁₈ S ₂ -Modified CdS Photocatalyst: One-step Synthesis with Bifunctional Precursors and Improved H ₂ -Evolution Activity. Solar Rrl, 2021, 5, 2100387.	5.8	19
99	Ultrathin 2D/2D Graphdiyne/Bi ₂ WO ₆ Heterojunction for Gas-Phase CO ₂ Photoreduction. ACS Applied Energy Materials, 2021, 4, 8734-8738.	5.1	23
100	Sustained CO ₂ -photoreduction activity and high selectivity over Mn, C-codoped ZnO core-triple shell hollow spheres. Nature Communications, 2021, 12, 4936.	12.8	159
101	The radical and non-radical oxidation mechanism of electrochemically activated persulfate process on different cathodes in divided and undivided cell. Journal of Hazardous Materials, 2021, 416, 125804.	12.4	18
102	Tuning the strength of built-in electric field in 2D/2D g-C ₃ N ₄ /SnS ₂ and g-C ₃ N ₄ /ZrS ₂ S-scheme heterojunctions by nonmetal doping. Journal of Materiomics, 2021, 7, 988-997.	5.7	77
103	Novel amorphous NiCuS H ₂ -evolution cocatalyst: Optimizing surface hydrogen desorption for efficient photocatalytic activity. Chemical Engineering Journal, 2021, 419, 129652.	12.7	76
104	g-C ₃ N ₄ -Based 2D/2D Composite Heterojunction Photocatalyst. Small Structures, 2021, 2, 2100086.	12.0	127
105	Solar-Driven Glucose Isomerization into Fructose via Transient Lewis Acid-Base Active Sites. ACS Catalysis, 2021, 11, 12170-12178.	11.2	36
106	In situ Irradiated XPS Investigation on S-scheme TiO ₂ @ZnIn ₂ S ₄ Photocatalyst for Efficient Photocatalytic CO ₂ Reduction. Small, 2021, 17, e2103447.	10.0	449
107	Iron-carbon microelectrolysis for wastewater remediation: Preparation, performance and interaction mechanisms. Chemosphere, 2021, 278, 130483.	8.2	43
108	CsPbBr ₃ Nanocrystal Induced Bilateral Interface Modification for Efficient Planar Perovskite Solar Cells. Advanced Science, 2021, 8, e2102648.	11.2	92

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109	In-situ preparation of TiO ₂ /N-doped graphene hollow sphere photocatalyst with enhanced photocatalytic CO ₂ reduction performance. Chinese Journal of Catalysis, 2021, 42, 1648-1658.	14.0	86
110	Potassium/oxygen co-doped polymeric carbon nitride for enhanced photocatalytic CO ₂ reduction. Applied Surface Science, 2021, 563, 150310.	6.1	18
111	Generation of hydroxyl radicals by metal-free bifunctional electrocatalysts for enhanced organics removal. Science of the Total Environment, 2021, 791, 148107.	8.0	33
112	0D/2D CdS/ZnO composite with n-n heterojunction for efficient detection of triethylamine. Journal of Colloid and Interface Science, 2021, 600, 898-909.	9.4	44
113	Enhanced performance of CH ₃ NH ₃ PbI ₃ perovskite solar cells by excess halide modification. Applied Surface Science, 2021, 564, 150464.	6.1	18
114	Single-atom heterogeneous photocatalysts. Chem Catalysis, 2021, 1, 1173-1214.	6.1	59
115	Selective modification of ultra-thin g-C ₃ N ₄ nanosheets on the (110) facet of Au/BiVO ₄ for boosting photocatalytic H ₂ O ₂ production. Applied Catalysis B: Environmental, 2021, 297, 120414.	20.2	63
116	Hierarchical porous nickel supported NiFeOxHy nanosheets for efficient and robust oxygen evolution electrocatalyst under industrial condition. Applied Catalysis B: Environmental, 2021, 299, 120668.	20.2	62
117	Photocatalytic H ₂ Evolution Coupled with Furfuralcohol Oxidation over Pt-Modified ZnCdS Solid Solution. Small Methods, 2021, 5, e2100979.	8.6	79
118	Core-Shell Structured C@SiO ₂ Hollow Spheres Decorated with Nickel Nanoparticles as Anode Materials for Lithium-Ion Batteries. Small, 2021, 17, e2103673.	10.0	43
119	Hierarchically Porous ZnO/g-C ₃ N ₄ S-Scheme Heterojunction Photocatalyst for Efficient H ₂ O ₂ Production. Langmuir, 2021, 37, 14114-14124.	3.5	165
120	In Situ Transformation of Prussian-Blue Analogue-Derived Bimetallic Carbide Nanocubes by Water Oxidation: Applications for Energy Storage and Conversion. Chemistry - A European Journal, 2020, 26, 4052-4062.	3.3	23
121	Photoelectrochemical degradation of 2,4-dichlorophenoxyacetic acid using electrochemically self-doped Blue TiO ₂ nanotube arrays with formic acid as electrolyte. Journal of Hazardous Materials, 2020, 382, 121096.	12.4	47
122	Kinetic study of the degradation of rhodamine B using a flow-through UV/electro-Fenton process with the presence of ethylenediaminetetraacetic acid. Chemosphere, 2020, 240, 124929.	8.2	20
123	Pre-magnetized FeO as heterogeneous electro-Fenton catalyst for the degradation of p-nitrophenol at neutral pH. Chemosphere, 2020, 240, 124962.	8.2	31
124	Product selectivity of photocatalytic CO ₂ reduction reactions. Materials Today, 2020, 32, 222-243.	14.2	719
125	Enhanced photocatalytic H ₂ -production activity of WO ₃ /TiO ₂ step-scheme heterojunction by graphene modification. Chinese Journal of Catalysis, 2020, 41, 9-20.	14.0	458
126	ZIF-67 derived nickel cobalt sulfide hollow cages for high-performance supercapacitors. Applied Surface Science, 2020, 504, 144501.	6.1	107

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127	Role of adsorption and oxidation in porous carbon aerogel/persulfate system for non-radical degradation of organic contaminant. <i>Chemosphere</i> , 2020, 241, 125066.	8.2	35
128	Near-infrared absorbing 2D/3D ZnIn ₂ S ₄ /N-doped graphene photocatalyst for highly efficient CO ₂ capture and photocatalytic reduction. <i>Science China Materials</i> , 2020, 63, 552-565.	6.3	159
129	Hierarchical NiMn ₂ O ₄ /rGO composite nanosheets decorated with Pt for low-temperature formaldehyde oxidation. <i>Environmental Science: Nano</i> , 2020, 7, 198-209.	4.3	40
130	Amorphous WO ₃ induced lattice distortion for a low-cost and high-efficient electrocatalyst for overall water splitting in acid. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1712-1722.	4.9	14
131	Cobalt polyoxometalate on N-doped carbon layer to boost photoelectrochemical water oxidation of BiVO ₄ . <i>Chemical Engineering Journal</i> , 2020, 392, 123744.	12.7	57
132	Nanocages of Polymeric Carbon Nitride from Low-temperature Supramolecular Preorganization for Photocatalytic CO ₂ Reduction. <i>Solar Rrl</i> , 2020, 4, 1900469.	5.8	38
133	Curved Surface Boosts Electrochemical CO ₂ Reduction to Formate via Bismuth Nanotubes in a Wide Potential Window. <i>ACS Catalysis</i> , 2020, 10, 358-364.	11.2	206
134	Activated Carbon Derived from Rice Husk as Efficient Oxygen Reduction Catalyst in Microbial Fuel Cell. <i>Electroanalysis</i> , 2020, 32, 2969-2975.	2.9	22
135	Holey Graphene for Electrochemical Energy Storage. <i>Cell Reports Physical Science</i> , 2020, 1, 100215.	5.6	58
136	Triethanolamine-assisted photodeposition of non-crystalline Cu _x P nanodots for boosting photocatalytic H ₂ evolution of TiO ₂ . <i>Journal of Materials Chemistry C</i> , 2020, 8, 15816-15822.	5.5	31
137	Nickel-based cocatalysts for photocatalysis: Hydrogen evolution, overall water splitting and CO ₂ reduction. <i>Materials Today Physics</i> , 2020, 15, 100279.	6.0	70
138	Graphene-Based Materials in Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000502.	5.8	36
139	Unique S-scheme heterojunctions in self-assembled TiO ₂ /CsPbBr ₃ hybrids for CO ₂ photoreduction. <i>Nature Communications</i> , 2020, 11, 4613.	12.8	776
140	Graphdiyne-modified TiO ₂ nanofibers with osteoinductive and enhanced photocatalytic antibacterial activities to prevent implant infection. <i>Nature Communications</i> , 2020, 11, 4465.	12.8	233
141	Room-temperature formaldehyde catalytic decomposition. <i>Environmental Science: Nano</i> , 2020, 7, 3655-3709.	4.3	64
142	Oxygen vacancies in metal oxides: recent progress towards advanced catalyst design. <i>Science China Materials</i> , 2020, 63, 2089-2118.	6.3	208
143	Enhanced Photocatalytic H ₂ Production Activity of CdS Quantum Dots Using Sn ²⁺ as Cocatalyst under Visible Light Irradiation. <i>Small</i> , 2020, 16, e2001024.	10.0	124
144	Cooperatively modulating reactive oxygen species generation and bacteria-photocatalyst contact over graphitic carbon nitride by polyethylenimine for rapid water disinfection. <i>Applied Catalysis B: Environmental</i> , 2020, 274, 119095.	20.2	97

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145	Efficient H ₂ O ₂ generation and spontaneous OH conversion for in-situ phenol degradation on nitrogen-doped graphene: Pyrolysis temperature regulation and catalyst regeneration mechanism. <i>Journal of Hazardous Materials</i> , 2020, 397, 122681.	12.4	47
146	CdS nanosheets decorated with Ni@graphene core-shell cocatalyst for superior photocatalytic H ₂ production. <i>Journal of Materials Science and Technology</i> , 2020, 56, 170-178.	10.7	92
147	Kinetic and mechanism study of UV/pre-magnetized-FeO/oxalate for removing sulfamethazine. <i>Journal of Hazardous Materials</i> , 2020, 398, 122931.	12.4	31
148	Topotactic Transformation of Bismuth Oxybromide into Bismuth Tungstate: Bandgap Modulation of Single-Crystalline {001}-Faceted Nanosheets for Enhanced Photocatalytic CO ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26991-27000.	8.0	53
149	Enhancement of hydrogen peroxide production by electrochemical reduction of oxygen on carbon nanotubes modified with fluorine. <i>Chemosphere</i> , 2020, 259, 127423.	8.2	48
150	Reaction: Rational Design of Highly Active Photocatalysts for CO ₂ Conversion. <i>CheM</i> , 2020, 6, 1039-1040.	11.7	97
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#	ARTICLE	IF	CITATIONS
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