

# Yuanyuan Wang

## List of Publications by Year in descending order

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153  
papers

9,828  
citations

34105

52  
h-index

40979

93  
g-index

153  
all docs

153  
docs citations

153  
times ranked

9396  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing electrocatalytic N <sub>2</sub> -to-NH <sub>3</sub> fixation by suppressing hydrogen evolution with alkylthiols modified Fe <sub>3</sub> P nanoarrays. Nano Research, 2022, 15, 1039-1046.	10.4	74
2	Photocatalytic anticancer performance of naked Ag/AgCl nanoparticles. Chemical Engineering Journal, 2022, 428, 131265.	12.7	17
3	Improved photocatalytic CO <sub>2</sub> and epoxides cycloaddition via the synergistic effect of Lewis acidity and charge separation over Zn modified UiO-bpydc. Applied Catalysis B: Environmental, 2022, 301, 120793.	20.2	42
4	Strain-assisted in-situ formed oxygen defective WO <sub>3</sub> film for photothermal-synergistic reverse water gas shift reaction and single-particle study. Chemical Engineering Journal, 2022, 433, 134199.	12.7	10
5	Stress-induced BiVO <sub>4</sub> photoanode for enhanced photoelectrochemical performance. Applied Catalysis B: Environmental, 2022, 304, 121012.	20.2	52
6	An organometal halide perovskite supported Pt single-atom photocatalyst for H <sub>2</sub> evolution. Energy and Environmental Science, 2022, 15, 1271-1281.	30.8	97
7	Photocatalytic Selective Oxidation of HMF Coupled with H <sub>2</sub> Evolution on Flexible Ultrathin g-C <sub>3</sub> N <sub>4</sub> Nanosheets with Enhanced N≡H Interaction. ACS Catalysis, 2022, 12, 1919-1929.	11.2	82
8	Synthesis of photocatalytic hybrid nanostructures. , 2022, , .		0
9	Photothermal synergy for efficient dry reforming of CH <sub>4</sub> by an Ag/AgBr/CsPbBr <sub>3</sub> composite. Catalysis Science and Technology, 2022, 12, 1628-1636.	4.1	9
10	Borate-modulated amorphous NiFeB nanocatalysts as highly active and stable electrocatalysts for oxygen evolution reaction. Journal of Alloys and Compounds, 2022, 903, 163741.	5.5	10
11	Boosting hot electrons transfer via laser-induced atomic redistribution for plasmon-enhanced nitroreduction and single-particle study. Journal of Catalysis, 2022, 407, 115-125.	6.2	4
12	Ambient Ammonia Synthesis via Electrochemical Reduction of Nitrate Enabled by NiCo <sub>2</sub> O <sub>4</sub> Nanowire Array. Small, 2022, 18, e2106961.	10.0	171
13	Highly efficient electrocatalytic hydrogen evolution coupled with upcycling of microplastics in seawater enabled via Ni <sub>3</sub> N/W <sub>5</sub> N <sub>4</sub> janus nanostructures. Applied Catalysis B: Environmental, 2022, 307, 121198.	20.2	72
14	Coupling denitrification and ammonia synthesis <i>via</i> selective electrochemical reduction of nitric oxide over Fe <sub>2</sub> O <sub>3</sub> nanorods. Journal of Materials Chemistry A, 2022, 10, 6454-6462.	10.3	52
15	Plasmon-Enhanced Water Activation for Hydrogen Evolution from Ammonia-Borane Studied at a Single-Particle Level. ACS Catalysis, 2022, 12, 3558-3565.	11.2	31
16	Strain Adjustment Realizes the Photocatalytic Overall Water Splitting on Tetragonal Zircon BiVO <sub>4</sub> . Advanced Science, 2022, 9, e2105299.	11.2	37
17	Photoelectrochemical Oxidation of Amines to Imines and Production of Hydrogen through Mo-Doped BiVO <sub>4</sub> Photoanode. ACS Omega, 2022, 7, 12816-12824.	3.5	4
18	Synergistic effect between boron containing metal-organic frameworks and light leading to enhanced CO <sub>2</sub> cycloaddition with epoxides. Chemical Engineering Journal, 2022, 437, 135363.	12.7	16

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19	Space-confined growth of lead-free halide perovskite Cs <sub>3</sub> Bi <sub>2</sub> Br <sub>9</sub> in MCM-41 molecular sieve as an efficient photocatalyst for CO <sub>2</sub> reduction at the gas–solid condition under visible light. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121375.	20.2	43
20	Promoting Electrocatalytic Reduction of CO <sub>2</sub> to C <sub>2</sub> H <sub>4</sub> Production by Inhibiting C <sub>2</sub> H <sub>5</sub> OH Desorption from Cu <sub>2</sub> O/C Composite. <i>Small</i> , 2022, 18, e2105212.	10.0	15
21	BiVO <sub>4</sub> 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
22	NiCoP@CeO <sub>2</sub> composites for efficient electrochemical oxygen evolution. <i>RSC Advances</i> , 2022, 12, 13639-13644.	3.6	2
23	Boosting H <sub>2</sub> Production from a BiVO <sub>4</sub> 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
24	Conductive Two-Dimensional Magnesium Metal–Organic Frameworks for High-Efficiency O <sub>2</sub> Electroreduction to H <sub>2</sub> O <sub>2</sub> . <i>ACS Catalysis</i> , 2022, 12, 6092-6099.	11.2	78
25	Molten-salt assisted synthesis of Cu clusters modified TiO <sub>2</sub> with oxygen vacancies for efficient photocatalytic reduction of CO <sub>2</sub> to CO. <i>Chemical Engineering Journal</i> , 2022, 445, 136718.	12.7	34
26	In situ observation of photo-induced shortening of single Au nanorod for plasmon-enhanced formic acid dehydrogenation. , 2022, , 100014.		0
27	Photo-induced photo-thermal synergy effect leading to efficient CO <sub>2</sub> 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
28	In Situ Preparation of CsPbBr <sub>3</sub> @CsPb <sub>2</sub> Br <sub>5</sub> Composite Assisted with Water as a Highly Efficient and Stable Catalyst for Photothermal CO <sub>2</sub> Hydrogenation. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	4
29	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
30	Growth of bulk BiOBr single crystals for the characterization of intrinsic semi-conductive properties and application in ultraviolet photodetectors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 10330-10337.	5.5	2
31	A Bismuth-Based Metal–Organic Framework for Visible-Light-Driven Photocatalytic Decolorization of Dyes and Oxidation of Phenylboronic Acids. <i>Inorganic Chemistry</i> , 2022, 61, 11110-11117.	4.0	6
32	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
33	SO <sub>2</sub> removal performances of Al- and Mg-modified carbide slags from CO <sub>2</sub> capture cycles at calcium looping conditions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 1187-1197.	3.6	3
34	Substrate-dependent ALD of Cu <sub>x</sub> on TiO <sub>2</sub> and its performance in photocatalytic CO <sub>2</sub> reduction. <i>Chemical Engineering Journal</i> , 2021, 405, 126654.	12.7	34
35	Tailoring the composition and structure of Ni <sub>3</sub> S <sub>2</sub> by introduction of Co towards high efficiency energy storage device. <i>Chemical Engineering Journal</i> , 2021, 403, 126285.	12.7	23
36	Boosting the electrocatalytic HER performance of Ni <sub>3</sub> N-V <sub>2</sub> O <sub>3</sub> via the interface coupling effect. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119590.	20.2	84

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37	Simultaneous CO <sub>2</sub> capture and heat storage by a Ca/Mg-based composite in coupling calcium looping and CaO/Ca(OH) <sub>2</sub> cycles using air as a heat transfer fluid. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 100-111.	3.7	9
38	Bias-Free Solar Water Splitting by Tetragonal Zircon BiVO <sub>4</sub> Nanocrystal Photocathode and Monoclinic Scheelite BiVO <sub>4</sub> Nanoporous Photoanode. <i>Advanced Functional Materials</i> , 2021, 31, 2008656.	14.9	45
39	Tuning the Conduction Band Potential of Bi-based Semiconductors Using a Combination of Organic Ligands. <i>ChemSusChem</i> , 2021, 14, 892-897.	6.8	7
40	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
41	Enabling multifunctional electrocatalysts by modifying the basal plane of unifunctional 1Tâ€²-MoS <sub>2</sub> with anchored transition metal single atoms. <i>Nanoscale</i> , 2021, 13, 13390-13400.	5.6	69
42	Boron containing metal-organic framework for highly selective photocatalytic production of H <sub>2</sub> O <sub>2</sub> by promoting two-electron O <sub>2</sub> reduction. <i>Materials Horizons</i> , 2021, 8, 2842-2850.	12.2	31
43	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
44	Light-Promoted CO <sub>2</sub> 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
45	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
46	Honeycomb Carbon Nanofibers: A Superhydrophilic O <sub>2</sub> -Entrapping Electrocatalyst Enables Ultrahigh Mass Activity for the Two-Electron Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2021, 133, 10677-10681.	2.0	26
47	Honeycomb Carbon Nanofibers: A Superhydrophilic O <sub>2</sub> -Entrapping Electrocatalyst Enables Ultrahigh Mass Activity for the Two-Electron Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10583-10587.	13.8	219
48	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
49	Oxygen vacancy enhancing CO <sub>2</sub> electrochemical reduction to CO on Ce-doped ZnO catalysts. <i>Surfaces and Interfaces</i> , 2021, 23, 100923.	3.0	22
50	In-situ growth of Ti <sub>3</sub> C <sub>2</sub> @MIL-NH <sub>2</sub> composite for highly enhanced photocatalytic H <sub>2</sub> evolution. <i>Chemical Engineering Journal</i> , 2021, 411, 128446.	12.7	45
51	2D/2D heterostructure of ultrathin BiVO <sub>4</sub> /Ti <sub>3</sub> C <sub>2</sub> nanosheets for photocatalytic overall Water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119855.	20.2	109
52	CaO/Ca(OH) <sub>2</sub> heat storage performance of hollow nanostructured CaO-based material from Ca-looping cycles for CO <sub>2</sub> capture. <i>Fuel Processing Technology</i> , 2021, 217, 106834.	7.2	16
53	TiO <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> as an efficient photocatalyst for selective oxidation of benzyl alcohol to benzaldehyde. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119885.	20.2	111
54	Enhancing Electrocatalytic N <sub>2</sub> Conversion to NH <sub>3</sub> by MnO <sub>2</sub> Ultralong Nanowires with Oxygen Vacancies. <i>Journal of Photocatalysis</i> , 2021, 2, 140-146.	0.4	0

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55	Enhanced Electrochemical H <sub>2</sub> O <sub>2</sub> Production via Two-Electron Oxygen Reduction Enabled by Surface-Derived Amorphous Oxygen-Deficient TiO <sub>2</sub> . ACS Applied Materials & Interfaces, 2021, 13, 33182-33187.	8.0	67
56	Two-dimensional d conjugated metal-organic framework Fe <sub>3</sub> (hexaiminotriphenylene) <sub>2</sub> as a photo-Fenton like catalyst for highly efficient degradation of antibiotics. Applied Catalysis B: Environmental, 2021, 290, 120029.	20.2	55
57	Probing the Mechanism of Plasmon-Enhanced Ammonia Borane Methanolysis on a CuAg Alloy at a Single-Particle Level. ACS Catalysis, 2021, 11, 10814-10823.	11.2	48
58	BiVO <sub>4</sub> Ceramic Photoanode with Enhanced Photoelectrochemical Stability. Nanomaterials, 2021, 11, 2404.	4.1	1
59	Nitrogen vacancy enhanced photocatalytic selective oxidation of benzyl alcohol in g-C <sub>3</sub> N <sub>4</sub> . International Journal of Hydrogen Energy, 2021, 46, 37782-37791.	7.1	23
60	High-Performance Electrochemical NO Reduction into NH <sub>3</sub> by MoS <sub>2</sub> Nanosheet. Angewandte Chemie - International Edition, 2021, 60, 25263-25268.	13.8	180
61	Design and synthesis of BiVO <sub>4</sub> @CuO <sub>x</sub> as a photo assisted Fenton-like catalyst for efficient degradation of tetracycline. Surfaces and Interfaces, 2021, 26, 101380.	3.0	5
62	In situ integration of Fe <sub>3</sub> N@Co <sub>4</sub> N@CoFe alloy nanoparticles as efficient and stable electrocatalyst for overall water splitting. Electrochimica Acta, 2021, 395, 139218.	5.2	14
63	Understanding the enhancement of CaO on water gas shift reaction for H <sub>2</sub> production by density functional theory. Fuel, 2021, 303, 121257.	6.4	18
64	Enhanced singlet oxygen production over a photocatalytic stable metal organic framework composed of porphyrin and Ag. Journal of Colloid and Interface Science, 2021, 602, 300-306.	9.4	15
65	Ag/AgCl as an efficient plasmonic photocatalyst for greenhouse gaseous methane oxidation. Journal of Environmental Chemical Engineering, 2021, 9, 106435.	6.7	7
66	Surface Fluorination Engineering of NiFe Prussian Blue Analogue Derivatives for Highly Efficient Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2021, 13, 5142-5152.	8.0	51
67	Host dependent electrocatalytic hydrogen evolution of Ni/TiO <sub>2</sub> composites. Journal of Materials Chemistry A, 2021, 9, 6325-6334.	10.3	10
68	Electrocatalytic hydrogen peroxide production in acidic media enabled by NiS <sub>2</sub> nanosheets. Journal of Materials Chemistry A, 2021, 9, 6117-6122.	10.3	102
69	Targeted Regulation of the Electronic States of Nickel Toward the Efficient Electrosynthesis of Benzonitrile and Hydrogen Production. ACS Applied Materials & Interfaces, 2021, 13, 56140-56150.	8.0	21
70	Electrochemical two-electron O <sub>2</sub> reduction reaction toward H <sub>2</sub> O <sub>2</sub> production: using cobalt porphyrin decorated carbon nanotubes as a nanohybrid catalyst. Journal of Materials Chemistry A, 2021, 9, 26019-26027.	10.3	55
71	In situ extract nucleate sites for the growth of free-standing carbon nitride films on various substrates. Catalysis Today, 2020, 340, 92-96.	4.4	6
72	Design and synthesis of porous M-ZnO/CeO <sub>2</sub> microspheres as efficient plasmonic photocatalysts for nonpolar gaseous molecules oxidation: Insight into the role of oxygen vacancy defects and M=Ag, Au nanoparticles. Applied Catalysis B: Environmental, 2020, 260, 118151.	20.2	110

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73	High-efficient electrocatalytic overall water splitting over vanadium doped hexagonal Ni <sub>0.2</sub> Mo <sub>0.8</sub> N. Applied Catalysis B: Environmental, 2020, 263, 118330.	20.2	111
74	Simultaneous NO/CO <sub>2</sub> removal performance of biochar/limestone in calcium looping process. Fuel, 2020, 262, 116428.	6.4	27
75	Simultaneous NO/CO <sub>2</sub> removal by Cu-modified biochar/CaO in carbonation step of calcium looping process. Chemical Engineering Journal, 2020, 392, 123659.	12.7	27
76	CeO <sub>2</sub> -modified CaO/Ca <sub>12</sub> Al <sub>14</sub> O <sub>33</sub> bi-functional material for CO <sub>2</sub> capture and H <sub>2</sub> production in sorption-enhanced steam gasification of biomass. Energy, 2020, 192, 116664.	8.8	64
77	CaO/H <sub>2</sub> O Thermochemical Heat Storage Capacity of a CaO/CeO <sub>2</sub> Composite from CO <sub>2</sub> Capture Cycles. Industrial & Engineering Chemistry Research, 2020, 59, 16741-16750.	3.7	13
78	Coupled CO <sub>2</sub> capture and thermochemical heat storage of CaO derived from calcium acetate. , 2020, 10, 1027-1038.		11
79	Ni <sub>3</sub> B as a highly efficient and selective catalyst for the electrosynthesis of hydrogen peroxide. Applied Catalysis B: Environmental, 2020, 279, 119371.	20.2	48
80	Enhancing the Photoelectrochemical Water Oxidation Reaction of BiVO <sub>4</sub> Photoanode by Employing Carbon Spheres as Electron Reservoirs. ACS Catalysis, 2020, 10, 13031-13039.	11.2	57
81	Lead-free Halide Perovskite Cs <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> Sb <sub>2</sub> (x)I <sub>9</sub> (x<sup>0.3</sup>) Possessing the Photocatalytic Activity for Hydrogen Evolution Comparable to that of (CH <sub>3</sub> NH <sub>3</sub> )PbI <sub>3</sub> . Advanced Materials. 2020, 32, e2001344.	21.0	107
82	Photostable Ag(I)-Based Metal-Organic Framework: Synthesis, Structure, and Photocatalytic Selective Oxidation Properties. Inorganic Chemistry, 2020, 59, 16127-16131.	4.0	8
83	Oxygen Vacancy-Enhanced Singlet Oxygen Production for Selective Photocatalytic Oxidation. ChemSusChem, 2020, 13, 3488-3494.	6.8	51
84	Density Functional Theory Study on CO <sub>2</sub> Adsorption by Ce-Promoted CaO in the Presence of Steam. Energy & Fuels, 2020, 34, 6197-6208.	5.1	31
85	Molybdenum Nitride Electrocatalysts for Hydrogen Evolution More Efficient than Platinum/Carbon: Mo <sub>2</sub> N/CeO <sub>2</sub> @Nickel Foam. ACS Applied Materials & Interfaces, 2020, 12, 29153-29161.	8.0	18
86	Plasmon-induced dehydrogenation of formic acid on Pd-dotted Ag@Au hexagonal nanoplates and single-particle study. Applied Catalysis B: Environmental, 2020, 277, 119226.	20.2	40
87	Development of Mn/Mg-copromoted carbide slag for efficient CO <sub>2</sub> capture under realistic calcium looping conditions. Chemical Engineering Research and Design, 2020, 141, 380-389.	5.6	30
88	Energy storage and attrition performance of limestone under fluidization during CaO/CaCO <sub>3</sub> cycles. Energy, 2020, 207, 118291.	8.8	16
89	Co <sub>3</sub> (hexaiminotriphenylene) <sub>2</sub> : A conductive two-dimensional d conjugated metal-organic framework for highly efficient oxygen evolution reaction. Applied Catalysis B: Environmental, 2020, 278, 119295.	20.2	80
90	Thermochemical energy storage performance of Al <sub>2</sub> O <sub>3</sub> /CeO <sub>2</sub> co-doped CaO-based material under high carbonation pressure. Applied Energy, 2020, 263, 114650.	10.1	70

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91	Electrodeposition of NiFe layered double hydroxide on Ni <sub>3</sub> S <sub>2</sub> nanosheets for efficient electrocatalytic water oxidation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 8659-8666.	7.1	35
92	One-step synthesis of Co-doped 1T-MoS <sub>2</sub> nanosheets with efficient and stable HER activity in alkaline solutions. <i>Materials Chemistry and Physics</i> , 2020, 244, 122642.	4.0	51
93	Synthesis of novel cubic Ni <sub>2</sub> Mo <sub>3</sub> N and its electronic structure regulation by vanadium doping towards high-efficient HER electrocatalyst. <i>Electrochimica Acta</i> , 2020, 337, 135689.	5.2	11
94	Cu <sub>2</sub> O Nanoparticles with Both {100} and {111} Facets for Enhancing the Selectivity and Activity of CO <sub>2</sub> Electroreduction to Ethylene. <i>Advanced Science</i> , 2020, 7, 1902820.	11.2	196
95	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
96	CaO/CaCO <sub>3</sub> thermochemical heat storage performance of CaO-based micrometre-sized tubular composite. <i>Energy Conversion and Management</i> , 2020, 222, 113222.	9.2	34
97	Enhanced electrocatalytic HER performance of non-noble metal nickel by introduction of divanadium trioxide. <i>Electrochimica Acta</i> , 2019, 320, 134535.	5.2	18
98	Enhanced selectivity and activity for electrocatalytic reduction of CO <sub>2</sub> to CO on an anodized Zn/carbon/Ag electrode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16685-16689.	10.3	25
99	Fe <sub>2</sub> O <sub>3</sub> Film with Highly Photoactivity for Non-enzymatic Photoelectrochemical Detection of Glucose. <i>Electroanalysis</i> , 2019, 31, 1809-1814.	2.9	12
100	In-situ phosphating to synthesize Ni <sub>2</sub> P decorated NiO/g-C <sub>3</sub> N <sub>4</sub> p-n junction for enhanced photocatalytic hydrogen production. <i>Chemical Engineering Journal</i> , 2019, 378, 122161.	12.7	133
101	Ag <sub>2</sub> ZnSnS <sub>4</sub> /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
102	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
103	Enhanced photocatalytic hydrogen evolution of CdWO <sub>4</sub> through polar organic molecule modification. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4754-4763.	7.1	17
104	Synthesis of a WO <sub>3</sub> photocatalyst with high photocatalytic activity and stability using synergetic internal Fe <sup>3+</sup> 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
105	Enhanced photocatalytic activity towards H <sub>2</sub> 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
106	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
107	DFT study of CO <sub>2</sub> adsorption across a CaO/Ca <sub>12</sub> Al <sub>14</sub> O <sub>33</sub> sorbent in the presence of H <sub>2</sub> O under calcium looping conditions. <i>Chemical Engineering Journal</i> , 2019, 370, 10-18.	12.7	63
108	CO <sub>2</sub> 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

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109	Photocatalytic hydrogen evolution on P-type tetragonal zircon BiVO <sub>4</sub> . Applied Catalysis B: Environmental, 2019, 251, 94-101.	20.2	82
110	Effect of the intra- and inter-triazine N-vacancies on the photocatalytic hydrogen evolution of graphitic carbon nitride. Chemical Engineering Journal, 2019, 369, 263-271.	12.7	55
111	Performance of Li <sub>4</sub> SiO <sub>4</sub> Material for CO <sub>2</sub> Capture: A Review. International Journal of Molecular Sciences, 2019, 20, 928.	4.1	54
112	ZnO nanorods modified with noble metal-free Co <sub>3</sub> O <sub>4</sub> nanoparticles as a photocatalyst for efficient ethylene degradation under light irradiation. Catalysis Science and Technology, 2019, 9, 6191-6198.	4.1	22
113	Monomolecular VB <sub>2</sub> -doped MOFs for photocatalytic oxidation with enhanced stability, recyclability and selectivity. Journal of Materials Chemistry A, 2019, 7, 26934-26943.	10.3	18
114	Carbon nanosheet facilitated charge separation and transfer between molybdenum carbide and graphitic carbon nitride toward efficient photocatalytic H <sub>2</sub> production. Applied Surface Science, 2019, 473, 91-101.	6.1	59
115	Efficient near-infrared photocatalysts based on NaYF <sub>4</sub> :Yb <sup>3+</sup> ,Tm <sup>3+</sup> @NaYF <sub>4</sub> :Yb <sup>3+</sup> ,Nd <sup>3+</sup> @TiO <sub>2</sub> core@shell nanoparticles. Chemical Engineering Journal, 2019, 361, 1089-1097.	12.7	53
116	Preparation of a morph-genetic CaO-based sorbent using paper fibre as a biotemplate for enhanced CO <sub>2</sub> capture. Chemical Engineering Journal, 2019, 361, 235-244.	12.7	139
117	Post-synthetic platinum complex modification of a triazine based metal organic frameworks for enhanced photocatalytic H <sub>2</sub> evolution. Journal of Solid State Chemistry, 2019, 271, 260-265.	2.9	14
118	Perovskite photocatalyst CsPbBr <sub>3</sub> -xI <sub>x</sub> with a bandgap funnel structure for H <sub>2</sub> evolution under visible light. Applied Catalysis B: Environmental, 2019, 245, 522-527.	20.2	127
119	Noble-metal-free Fe <sub>2</sub> P-Co <sub>2</sub> P co-catalyst boosting visible-light-driven photocatalytic hydrogen production over graphitic carbon nitride: The synergistic effects between the metal phosphides. International Journal of Hydrogen Energy, 2019, 44, 4133-4142.	7.1	66
120	Ag <sup>+</sup> quantum dots obtained via in situ photodeposition method as photocatalytic CO <sub>2</sub> reduction cocatalyst: Borrowing redox conversion between Ag <sup>+</sup> and Ag <sub>2</sub> O. Applied Catalysis B: Environmental, 2019, 243, 381-385.	20.2	26
121	A water-stable triazine-based metal-organic framework as an efficient adsorbent of Pb(II) ions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 560, 315-322.	4.7	34
122	TiN nanosheet arrays on Ti foils for high-performance supercapacitance. RSC Advances, 2018, 8, 12841-12847.	3.6	22
123	WS <sub>2</sub> /Graphitic Carbon Nitride Heterojunction Nanosheets Decorated with CdS Quantum Dots for Photocatalytic Hydrogen Production. ChemSusChem, 2018, 11, 1187-1197.	6.8	129
124	Fabrication of carbon bridged g-C <sub>3</sub> N <sub>4</sub> through supramolecular self-assembly for enhanced photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 229, 114-120.	20.2	128
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