Hui Xu

List of Publications by Year
in descending order

196 papers	15,313 citations	15504 65 h-index	19749 117 g-index
196 all docs	196 docs citations	196 times ranked	13879 citing authors

#	Article	IF	Citations
1	High Efficiency Photocatalytic Water Splitting Using 2D Î±â€Fe₂O₃/gâ€C₃N₄ Zâ€Scheme Catalysts. Advanced Energy Materials, 2017, 7, 1700025.	19.5	664
2	Novel visible-light-driven AgX/graphite-like C3N4 (X=Br, I) hybrid materials with synergistic photocatalytic activity. Applied Catalysis B: Environmental, 2013, 129, 182-193.	20.2	595
3	In-Situ-Reduced Synthesis of Ti³⁺ Self-Doped TiO₂/g-C₃N₄ Heterojunctions with High Photocatalytic Performance under LED Light Irradiation. ACS Applied Materials & Interfaces, 2015, 7, 9023-9030.	8.0	489
4	Novel visible-light-driven CQDs/Bi 2 WO 6 hybrid materials with enhanced photocatalytic activity toward organic pollutants degradation and mechanism insight. Applied Catalysis B: Environmental, 2015, 168-169, 51-61.	20.2	486
5	Visible-light-induced WO3/g-C3N4 composites with enhanced photocatalytic activity. Dalton Transactions, 2013, 42, 8606.	3.3	445
6	Template-free synthesis of 2D porous ultrathin nonmetal-doped g-C 3 N 4 nanosheets with highly efficient photocatalytic H 2 evolution from water under visible light. Applied Catalysis B: Environmental, 2016, 187, 144-153.	20.2	415
7	Oxygenated monolayer carbon nitride for excellent photocatalytic hydrogen evolution and external quantum efficiency. Nano Energy, 2016, 27, 138-146.	16.0	379
8	Electrochemical CO₂ Reduction with Atomic Ironâ€Dispersed on Nitrogenâ€Doped Graphene. Advanced Energy Materials, 2018, 8, 1703487.	19.5	369
9	Graphene-analogue carbon nitride: novel exfoliation synthesis and its application in photocatalysis and photoelectrochemical selective detection of trace amount of Cu²⁺. Nanoscale, 2014, 6, 1406-1415.	5.6	351
10	Exfoliated graphene-like carbon nitride in organic solvents: enhanced photocatalytic activity and highly selective and sensitive sensor for the detection of trace amounts of Cu2+. Journal of Materials Chemistry A, 2014, 2, 2563.	10.3	330
11	Unveiling the origin of boosted photocatalytic hydrogen evolution in simultaneously (S, P,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 84-94.	20.2	300
12	Self-assembled synthesis of defect-engineered graphitic carbon nitride nanotubes for efficient conversion of solar energy. Applied Catalysis B: Environmental, 2018, 225, 154-161.	20.2	296
13	Porous nitrogen-rich g-C3N4 nanotubes for efficient photocatalytic CO2 reduction. Applied Catalysis B: Environmental, 2019, 256, 117854.	20.2	271
14	Construction of MnO2/Monolayer g-C3N4 with Mn vacancies for Z-scheme overall water splitting. Applied Catalysis B: Environmental, 2019, 241, 452-460.	20.2	252
15	Graphene quantum dots modified mesoporous graphite carbon nitride with significant enhancement of photocatalytic activity. Applied Catalysis B: Environmental, 2017, 207, 429-437.	20.2	238
16	Mussel-inspired polydopamine biopolymer decorated with magnetic nanoparticles for multiple pollutants removal. Journal of Hazardous Materials, 2014, 270, 27-34.	12.4	235
17	2D heterostructure comprised of metallic 1T-MoS2/Monolayer O-g-C3N4 towards efficient photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 220, 379-385.	20.2	231
18	Synthesis and characterization of g-C3N4/MoO3 photocatalyst with improved visible-light photoactivity. Applied Surface Science, 2013, 283, 25-32.	6.1	227

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19	The CNT modified white C3N4 composite photocatalyst with enhanced visible-light response photoactivity. Dalton Transactions, 2013, 42, 7604.	3.3	226
20	Application of graphene-like layered molybdenum disulfide and its excellent adsorption behavior for doxycycline antibiotic. Chemical Engineering Journal, 2014, 243, 60-67.	12.7	207
21	Nanoscale optical probes for cellular imaging. Chemical Society Reviews, 2014, 43, 2650.	38.1	179
22	Constructing magnetic catalysts with in-situ solid-liquid interfacial photo-Fenton-like reaction over Ag3PO4@NiFe2O4 composites. Applied Catalysis B: Environmental, 2018, 225, 40-50.	20.2	175
23	Solvothermal synthesis of metallic 1T-WS2: A supporting co-catalyst on carbon nitride nanosheets toward photocatalytic hydrogen evolution. Chemical Engineering Journal, 2018, 335, 282-289.	12.7	161
24	Construction of novel CNT/LaVO4 nanostructures for efficient antibiotic photodegradation. Chemical Engineering Journal, 2019, 357, 487-497.	12.7	158
25	Emerging surface strategies on graphitic carbon nitride for solar driven water splitting. Chemical Engineering Journal, 2020, 382, 122812.	12.7	155
26	Construction of a 2D Grapheneâ€Like MoS₂/C₃N₄ Heterojunction with Enhanced Visibleâ€Light Photocatalytic Activity and Photoelectrochemical Activity. Chemistry - A European Journal, 2016, 22, 4764-4773.	3.3	149
27	In-situ hydroxyl modification of monolayer black phosphorus for stable photocatalytic carbon dioxide conversion. Applied Catalysis B: Environmental, 2020, 269, 118760.	20.2	147
28	Three dimensional polyaniline/MgIn2S4 nanoflower photocatalysts accelerated interfacial charge transfer for the photoreduction of Cr(VI), photodegradation of organic pollution and photocatalytic H2 production. Chemical Engineering Journal, 2019, 360, 1601-1612.	12.7	142
29	One-pot synthesis of copper-doped graphitic carbon nitride nanosheet by heating Cuâ€“melamine supramolecular network and its enhanced visible-light-driven photocatalysis. Journal of Solid State Chemistry, 2015, 228, 60-64.	2.9	140
30	Carbon materials from melamine sponges for supercapacitors and lithium battery electrode materials: A review. , 2019, 1, 253-275.		135
31	Direct Synthesis of Porous Nanorodâ€Type Graphitic Carbon Nitride/CuO Composite from Cuâ€“Melamine Supramolecular Framework towards Enhanced Photocatalytic Performance. Chemistry - an Asian Journal, 2015, 10, 1276-1280.	3.3	131
32	Controllable synthesis of CeO₂/g-C₃N₄ composites and their applications in the environment. Dalton Transactions, 2015, 44, 7021-7031.	3.3	125
33	Spatially confined Fe2O3 in hierarchical SiO2@TiO2 hollow sphere exhibiting superior photocatalytic efficiency for degrading antibiotics. Chemical Engineering Journal, 2020, 380, 122583.	12.7	117
34	Recent advance in single-atom catalysis. Rare Metals, 2021, 40, 767-789.	7.1	116
35	CNT/Ag3PO4 composites with highly enhanced visible light photocatalytic activity and stability. Chemical Engineering Journal, 2014, 241, 35-42.	12.7	114
36	Magnetic g-C₃N₄/NiFe₂O₄ hybrids with enhanced photocatalytic activity. RSC Advances, 2015, 5, 57960-57967.	3.6	110

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37	Exploring deep effects of atomic vacancies on activating CO2 photoreduction via rationally designing indium oxide photocatalysts. Chemical Engineering Journal, 2021, 422, 129888.	12.7	110
38	Metal-Oxide-Mediated Subtractive Manufacturing of Two-Dimensional Carbon Nitride for High-Efficiency and High-Yield Photocatalytic H₂ Evolution. ACS Nano, 2019, 13, 11294-11302.	14.6	109
39	g-C3N4 modified Bi2O3 composites with enhanced visible-light photocatalytic activity. Journal of Physics and Chemistry of Solids, 2015, 76, 112-119.	4.0	105
40	Phase and interlayer effect of transition metal dichalcogenide cocatalyst toward photocatalytic hydrogen evolution: The case of MoSe2. Applied Catalysis B: Environmental, 2019, 243, 330-336.	20.2	105
41	One-step synthesis of Fe-doped surface-alkalinized g-C3N4 and their improved visible-light photocatalytic performance. Applied Surface Science, 2019, 469, 739-746.	6.1	103
42	Cryo-mediated exfoliation and fracturing of layered materials into 2D quantum dots. Science Advances, 2017, 3, e1701500.	10.3	91
43	Reversible Formation of gâ€C₃N₄ 3D Hydrogels through Ionic Liquid Activation: Gelation Behavior and Roomâ€Temperature Gasâ€Sensing Properties. Advanced Functional Materials, 2017, 27, 1700653.	14.9	90
44	2020 Roadmap on two-dimensional nanomaterials for environmental catalysis. Chinese Chemical Letters, 2019, 30, 2065-2088.	9.0	90
45	Direct Z-scheme red carbon nitride/rod-like lanthanum vanadate composites with enhanced photodegradation of antibiotic contaminants. Applied Catalysis B: Environmental, 2020, 277, 119245.	20.2	90
46	Rapid synthesis of ultrathin 2D materials through liquid-nitrogen and microwave treatments. Journal of Materials Chemistry A, 2019, 7, 5209-5213.	10.3	89
47	Sulfur promoted n-Ï€* electron transitions in thiophene-doped g-C3N4 for enhanced photocatalytic activity. Chinese Journal of Catalysis, 2021, 42, 450-459.	14.0	87
48	Large-scale production of ultrathin carbon nitride-based photocatalysts for high-yield hydrogen evolution. Applied Catalysis B: Environmental, 2021, 281, 119475.	20.2	84
49	Mo-O-Bi Bonds as interfacial electron transport bridges to fuel CO2 photoreduction via in-situ reconstruction of black Bi2MoO6/BiO2-x heterojunction. Chemical Engineering Journal, 2022, 429, 132204.	12.7	83
50	Enhancing reactive oxygen species generation and photocatalytic performance via adding oxygen reduction reaction catalysts into the photocatalysts. Applied Catalysis B: Environmental, 2017, 218, 174-185.	20.2	82
51	An Allâ€Organic Dâ€A System for Visibleâ€Lightâ€Driven Overall Water Splitting. Small, 2020, 16, e2003914.	10.0	80
52	Engineering black phosphorus to porous g-C₃N₄-metalâ€“organic framework membrane: a platform for highly boosting photocatalytic performance. Journal of Materials Chemistry A, 2019, 7, 4408-4414.	10.3	79
53	Construction of 2D SnS2/g-C3N4 Z-scheme composite with superior visible-light photocatalytic performance. Applied Surface Science, 2019, 467-468, 56-64.	6.1	79
54	Hierarchical Z-scheme g-C₃N₄/Au/ZnIn₂S₄ photocatalyst for highly enhanced visible-light photocatalytic nitric oxide removal and carbon dioxide conversion. Environmental Science: Nano, 2020, 7, 676-687.	4.3	79

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55	Graphene quantum dots modified flower like Bi2WO6 for enhanced photocatalytic nitrogen fixation. Journal of Colloid and Interface Science, 2019, 557, 498-505.	9.4	78
56	Constructing Pd/2D-C3N4 composites for efficient photocatalytic H2 evolution through nonplasmon-induced bound electrons. Applied Surface Science, 2019, 467-468, 151-157.	6.1	78
57	Plasma treated Bi₂WO₆ ultrathin nanosheets with oxygen vacancies for improved photocatalytic CO₂ reduction. Inorganic Chemistry Frontiers, 2020, 7, 597-602.	6.0	77
58	A Specifically Exposed Cobalt Oxide/Carbon Nitride 2D Heterostructure for Carbon Dioxide Photoreduction. Industrial & Engineering Chemistry Research, 2018, 57, 17394-17400.	3.7	76
59	Non-metal photocatalyst nitrogen-doped carbon nanotubes modified mpg-C3N4: facile synthesis and the enhanced visible-light photocatalytic activity. Journal of Colloid and Interface Science, 2017, 494, 38-46.	9.4	74
60	Hydrothermal synthesis of mpg-C₃N₄ and Bi₂WO₆ nest-like structure nanohybrids with enhanced visible light photocatalytic activities. RSC Advances, 2017, 7, 38682-38690.	3.6	73
61	Synthesis of few-layer MoS₂ nanosheet-loaded Ag₃PO₄ for enhanced photocatalytic activity. Dalton Transactions, 2015, 44, 3057-3066.	3.3	71
62	Enhancing charge density and steering charge unidirectional flow in 2D non-metallic semiconductor-CNTs-metal coupled photocatalyst for solar energy conversion. Applied Catalysis B: Environmental, 2017, 202, 112-117.	20.2	71
63	1D metallic MoO2-C as co-catalyst on 2D g-C3N4 semiconductor to promote photocatlaytic hydrogen production. Applied Surface Science, 2018, 447, 732-739.	6.1	69
64	High-Adsorption, Self-Extinguishing, Thermal, and Acoustic-Resistance Aerogels Based on Organic and Inorganic Waste Valorization from Cellulose Nanocrystals and Red Mud. ACS Sustainable Chemistry and Engineering, 2018, 6, 7168-7180.	6.7	68
65	Ultrasonic-assisted pyrolyzation fabrication of reduced SnO2â€“x /g-C3N4 heterojunctions: Enhance photoelectrochemical and photocatalytic activity under visible LED light irradiation. Nano Research, 2016, 9, 1969-1982.	10.4	67
66	A multidimensional In₂S₃â€“CuInS₂ heterostructure for photocatalytic carbon dioxide reduction. Inorganic Chemistry Frontiers, 2018, 5, 3163-3169.	6.0	67
67	Improving the photocatalytic activity and stability of graphene-like BN/AgBr composites. Applied Surface Science, 2014, 313, 1-9.	6.1	66
68	In-situ formation of hierarchical 1D-3D hybridized carbon nanostructure supported nonnoble transition metals for efficient electrocatalysis of oxygen reaction. Applied Catalysis B: Environmental, 2019, 243, 151-160.	20.2	66
69	Steering charge transfer for boosting photocatalytic H2 evolution: Integration of two-dimensional semiconductor superiorities and noble-metal-free Schottky junction effect. Applied Catalysis B: Environmental, 2019, 245, 477-485.	20.2	64
70	Spectroscopic Studies on the Interaction of Vitamin C with Bovine Serum Albumin. Journal of Solution Chemistry, 2009, 38, 15-25.	1.2	63
71	Spectroscopic studies on the interaction between nicotinamide and bovine serum albumin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 71, 984-988.	3.9	62
72	Tandem Electrodes for Carbon Dioxide Reduction into C2+ Products at Simultaneously High Production Efficiency and Rate. Cell Reports Physical Science, 2020, 1, 100051.	5.6	60

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73	Construction of SnO₂/graphene-like g-C₃N₄with enhanced visible light photocatalytic activity. RSC Advances, 2017, 7, 36101-36111.	3.6	59
74	Modulating electronic structure of ternary NiMoV LDH nanosheet array induced by doping engineering to promote urea oxidation reaction. Chemical Engineering Journal, 2022, 430, 133100.	12.7	57
75	Accelerating Photogenerated Charge Kinetics via the Synergetic Utilization of 2D Semiconducting Structural Advantages and Nobleâ€Metalâ€Free Schottky Junction Effect. Small, 2019, 15, e1804613.	10.0	56
76	BN nanosheets modified WO 3 photocatalysts for enhancing photocatalytic properties under visible light irradiation. Journal of Alloys and Compounds, 2016, 660, 48-54.	5.5	55
77	Construction and preparation of novel 2D metal-free few-layer BN modified graphene-like g-C₃N₄ with enhanced photocatalytic performance. Dalton Transactions, 2017, 46, 11250-11258.	3.3	54
78	Biogenic synthesis of silver nanoparticles using ginger (Zingiber officinale) extract and their antibacterial properties against aquatic pathogens. Acta Oceanologica Sinica, 2017, 36, 95-100.	1.0	54
79	0D/2D Fe2O3 quantum dots/g-C3N4 for enhanced visible-light-driven photocatalysis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 541, 188-194.	4.7	54
80	Integrating the merits of two-dimensional structure and heteroatom modification into semiconductor photocatalyst to boost NO removal. Chemical Engineering Journal, 2019, 370, 944-951.	12.7	54
81	Construction of a few-layer g-C3N4/Î±-MoO3 nanoneedles all-solid-state Z-scheme photocatalytic system for photocatalytic degradation. Journal of Energy Chemistry, 2019, 29, 65-71.	12.9	54
82	Nitrogen-rich graphitic carbon nitride nanotubes for photocatalytic hydrogen evolution with simultaneous contaminant degradation. Journal of Colloid and Interface Science, 2020, 560, 555-564.	9.4	53
83	Nitrogen-Doped Carbon Quantum Dots from Poly(ethyleneimine) for Optical Dual-Mode Determination of Cu²⁺ and <scp>l</scp>-Cysteine and Their Logic Gate Operation. ACS Applied Materials & Interfaces, 2020, 12, 47245-47255.	8.0	52
84	Making Good Use of Food Wastes: Green Synthesis of Highly Stabilized Silver Nanoparticles from Grape Seed Extract and Their Antimicrobial Activity. Food Biophysics, 2015, 10, 12-18.	3.0	51
85	Cryo-induced closely bonded heterostructure for effective CO2 conversion: The case of ultrathin BP nanosheets/g-C3N4. Journal of Energy Chemistry, 2020, 49, 89-95.	12.9	49
86	Integrating CoOx cocatalyst on hexagonal Î±-Fe2O3 for effective photocatalytic oxygen evolution. Applied Surface Science, 2019, 469, 933-940.	6.1	48
87	Preparation of Coâ€“Moâ€“O ultrathin nanosheets with outstanding catalytic performance in aerobic oxidative desulfurization. Chemical Communications, 2019, 55, 13995-13998.	4.1	47
88	Accelerated Photoreduction of CO₂ to CO over a Stable Heterostructure with a Seamless Interface. ACS Applied Materials & Interfaces, 2021, 13, 39523-39532.	8.0	47
89	Enhanced photoelectrochemical aptasensing triggered by nitrogen deficiency and cyano group simultaneously engineered 2D carbon nitride for sensitively monitoring atrazine. Biosensors and Bioelectronics, 2022, 206, 114144.	10.1	47
90	Electrochemical Chiral Recognition of Tryptophan Isomers Based on Nonionic Surfactant-Assisted Molecular Imprinting Solâ€“Gel Silica. ACS Applied Materials & Interfaces, 2019, 11, 2840-2848.	8.0	46

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91	Fabrication of Ti³⁺ self-doped TiO₂(A) nanoparticle/TiO₂(R) nanorod heterojunctions with enhanced visible-light-driven photocatalytic properties. RSC Advances, 2014, 4, 37061-37069.	3.6	45
92	Multifunctional nanocomplex for surface-enhanced Raman scattering imaging and near-infrared photodynamic antimicrobial therapy of vancomycin-resistant bacteria. Colloids and Surfaces B: Biointerfaces, 2018, 161, 394-402.	5.0	45
93	Efficient photocatalytic hydrogen evolution mediated by defect-rich 1T-PtS₂ atomic layer nanosheet modified mesoporous graphitic carbon nitride. Journal of Materials Chemistry A, 2019, 7, 18906-18914.	10.3	44
94	Grain-boundary surface terminations incorporating oxygen vacancies for selectively boosting CO2 photoreduction activity. Nano Energy, 2021, 84, 105869.	16.0	43
95	Multifunctional C-Doped CoFe₂O₄ Material as Cocatalyst to Promote Reactive Oxygen Species Generation over Magnetic Recyclable Câ€“CoFe/Agâ€“AgX Photocatalysts. ACS Sustainable Chemistry and Engineering, 2018, 6, 11968-11978.	6.7	42
96	One-step oxygen vacancy engineering of WO3-x/2D g-C3N4 heterostructure: Triple effects for sustaining photoactivity. Journal of Alloys and Compounds, 2019, 795, 426-435.	5.5	42
97	Multidimensional In2O3/In2S3 heterojunction with lattice distortion for CO2 photoconversion. Chinese Journal of Catalysis, 2022, 43, 1286-1294.	14.0	42
98	Synthesis and characterization of BN/Bi₂WO₆ composite photocatalysts with enhanced visible-light photocatalytic activity. RSC Advances, 2015, 5, 88832-88840.	3.6	41
99	Controllable synthesized heterostructure photocatalyst Mo₂C@C/2D g-C₃N₄: enhanced catalytic performance for hydrogen production. Dalton Transactions, 2018, 47, 14706-14712.	3.3	41
100	Direct Z-scheme photocatalyst for efficient water pollutant degradation: A case study of 2D g-C3N4/BiVO4. Materials Chemistry and Physics, 2020, 241, 122308.	4.0	38
101	Construction of 2D/2D Z-scheme MnO2-x/g-C3N4 photocatalyst for efficient nitrogen fixation to ammonia. Green Energy and Environment, 2021, 6, 538-545.	8.7	38
102	Unique Dualâ€Sites Boosting Overall CO₂ Photoconversion by Hierarchical Electron Harvesters. Small, 2021, 17, e2103796.	10.0	38
103	Metallic cobalt nanoparticles embedded in sulfur and nitrogen co-doped rambutan-like nanocarbons for the oxygen reduction reaction under both acidic and alkaline conditions. Journal of Materials Chemistry A, 2019, 7, 14291-14301.	10.3	37
104	Graphene-based nanoprobes and a prototype optical biosensing platform. Biosensors and Bioelectronics, 2013, 50, 251-255.	10.1	36
105	Graphene-analogue boron nitride/Ag₃PO₄ composite for efficient visible-light-driven photocatalysis. RSC Advances, 2014, 4, 56853-56862.	3.6	36
106	Gold/monolayer graphitic carbon nitride plasmonic photocatalyst for ultrafast electron transfer in solar-to-hydrogen energy conversion. Chinese Journal of Catalysis, 2018, 39, 760-770.	14.0	36
107	Surface N modified 2D g-C3N4 nanosheets derived from DMF for photocatalytic H2 evolution. Applied Surface Science, 2018, 459, 845-852.	6.1	36
108	Chemical reduction implanted oxygen vacancy on the surface of 1D MoO3â^'x/g-C3N4 composite for boosted LED light-driven photoactivity. Journal of Materials Science, 2019, 54, 5343-5358.	3.7	36

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109	Novel broad-spectrum-driven oxygen-linked band and porous defect co-modified orange carbon nitride for photodegradation of Bisphenol A and 2-Mercaptobenzothiazole. Journal of Hazardous Materials, 2020, 396, 122659.	12.4	36
110	Highly Efficient Visible-Light-Driven Schottky Catalyst MoN/2D g-C₃N₄ for Hydrogen Production and Organic Pollutants Degradation. Industrial & Engineering Chemistry Research, 2018, 57, 8863-8870.	3.7	35
111	Constructing Schottky junction between 2D semiconductor and metallic nickel phosphide for highly efficient catalytic hydrogen evolution. Applied Surface Science, 2019, 495, 143528.	6.1	35
112	Highly sensitive recognition of Pb2+ using Pb2+ triggered exonuclease aided DNA recycling. Biosensors and Bioelectronics, 2013, 47, 520-523.	10.1	33
113	Synergistic effects of MoO2 nanosheets and graphene-like C3N4 for highly improved visible light photocatalytic activities. Applied Surface Science, 2018, 457, 1142-1150.	6.1	32
114	Self-assembly construction of NiCo LDH/ultrathin g-C3N4 nanosheets photocatalyst for enhanced CO2 reduction and charge separation mechanism study. Rare Metals, 2022, 41, 2118-2128.	7.1	32
115	Design of 3D WO₃/h-BN nanocomposites for efficient visible-light-driven photocatalysis. RSC Advances, 2017, 7, 25160-25170.	3.6	31
116	A green Pickering emulsion stabilized by cellulose nanocrystals via RAFT polymerization. Cellulose, 2018, 25, 77-85.	4.9	31
117	Graphene oxide-modified LaVO₄ nanocomposites with enhanced photocatalytic degradation efficiency of antibiotics. Inorganic Chemistry Frontiers, 2018, 5, 2818-2828.	6.0	31
118	Sustainable supercapacitors of nitrogen-doping porous carbon based on cellulose nanocrystals and urea. International Journal of Biological Macromolecules, 2020, 164, 4095-4103.	7.5	31
119	A silver on 2D white-C3N4support photocatalyst for mechanistic insights: synergetic utilization of plasmonic effect for solar hydrogen evolution. RSC Advances, 2016, 6, 112420-112428.	3.6	30
120	Atomic Layered Titanium Sulfide Quantum Dots as Electrocatalysts for Enhanced Hydrogen Evolution Reaction. Advanced Materials Interfaces, 2018, 5, 1700895.	3.7	30
121	A novel nanocomposite based on fluorescent turn-on gold nanostars for near-infrared photothermal therapy and self-theranostic caspase-3 imaging of glioblastoma tumor cell. Colloids and Surfaces B: Biointerfaces, 2018, 170, 303-311.	5.0	30
122	Fabrication of magnetic BaFe₁₂O₁₉/Ag₃PO₄ composites with an in situ photo-Fenton-like reaction for enhancing reactive oxygen species under visible light irradiation. Catalysis Science and Technology, 2019, 9, 2563-2570.	4.1	30
123	Nitriding Nickel-Based Cocatalyst: A Strategy To Maneuver Hydrogen Evolution Capacity for Enhanced Photocatalysis. ACS Sustainable Chemistry and Engineering, 2020, 8, 884-892.	6.7	30
124	Construction 3D rod-like Bi3.64Mo0.36O6.55/CuBi2O4 photocatalyst for enhanced photocatalytic activity via a photo-Fenton-like Cu2+/Cu+ redox cycle. Separation and Purification Technology, 2021, 254, 117546.	7.9	30
125	Crystal phase dependent solar driven hydrogen evolution catalysis over cobalt diselenide. Chemical Engineering Journal, 2020, 396, 125244.	12.7	30
126	Plasma-induced defect engineering: Boosted the reverse water gas shift reaction performance with electron trap. Journal of Colloid and Interface Science, 2020, 580, 814-821.	9.4	29

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127	Preparation of Wheat Straw Matrix-g-Polyacrylonitrile-Based Adsorbent by SET-LRP and Its Applications for Heavy Metal Ion Removal. ACS Sustainable Chemistry and Engineering, 2014, 2, 1843-1848.	6.7	28
128	Accelerating the Hole Mobility of Graphitic Carbon Nitride for Photocatalytic Hydrogen Evolution via 2D/2D Heterojunction Structural Advantages and Ni(OH)₂ Characteristic. Solar Rrl, 2020, 4, 1900538.	5.8	28
129	Three-dimensionally ordered macroporous WO 3 modified Ag 3 PO 4 with enhanced visible light photocatalytic performance. Ceramics International, 2016, 42, 1392-1398.	4.8	27
130	Electrochemical chiral sensor based on cellulose nanocrystals and multiwall carbon nanotubes for discrimination of tryptophan enantiomers. Cellulose, 2018, 25, 3861-3871.	4.9	27
131	Gold nanorods decorated with graphene oxide and multi-walled carbon nanotubes for trace level voltammetric determination of ascorbic acid. Mikrochimica Acta, 2019, 186, 17.	5.0	27
132	Cryo-mediated liquid-phase exfoliated 2D BP coupled with 2D C3N4 to photodegradate organic pollutants and simultaneously generate hydrogen. Applied Surface Science, 2019, 490, 117-123.	6.1	26
133	Realizing the synergistic effect of electronic modulation over graphitic carbon nitride for highly efficient photodegradation of bisphenol A and 2-mercaptobenzothiazole: Mechanism, degradation pathway and density functional theory calculation. Journal of Colloid and Interface Science, 2021, 583, 113-127.	9.4	26
134	Highly sensitive electrochemical immunosensor for the simultaneous detection of multiple tumor markers for signal amplification. Talanta, 2021, 226, 122133.	5.5	26
135	Preparation of oxygen-deficient 2D WO3â^'x nanoplates and their adsorption behaviors for organic pollutants: equilibrium and kinetics modeling. Journal of Materials Science, 2019, 54, 12463-12475.	3.7	23
136	Construction of dual ion (Fe3+/Fe2+ and Nb5+/Nb4+) synergy and full spectrum 1D nanorod Fe2O3/NaNbO3 photo-Fenton catalyst for the degradation of antibiotic: Effects of H2O2, S2O82â^' and toxicity. Separation and Purification Technology, 2021, 261, 118269.	7.9	22
137	Enhanced photocatalytic H2 evolution by deposition of metal nanoparticles into mesoporous structure of g-C3N4. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 585, 124067.	4.7	21
138	Synthesis of carbon nitride in moist environments: A defect engineering strategy toward superior photocatalytic hydrogen evolution reaction. Journal of Energy Chemistry, 2021, 54, 403-413.	12.9	21
139	Porous silver microrods by plasma vulcanization activation for enhanced electrocatalytic carbon dioxide reduction. Journal of Colloid and Interface Science, 2022, 606, 793-799.	9.4	21
140	Tailoring of crystalline structure of carbon nitride for superior photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2019, 556, 324-334.	9.4	20
141	Minireview on the Commonly Applied Copper-Based Electrocatalysts for Electrochemical CO₂ Reduction. Energy & Fuels, 2021, 35, 8585-8601.	5.1	20
142	Synergistic effect of isolated Co and Fe dual active sites boosting the photocatalytic hydrogen evolution reaction. Journal of Alloys and Compounds, 2022, 895, 162290.	5.5	20
143	Celastrol-modified TiO₂ nanoparticles: effects of celastrol on the particle size and visible-light photocatalytic activity. RSC Advances, 2014, 4, 12098-12104.	3.6	19
144	PMDETA as an efficient catalyst for bulk reversible complexation mediated polymerization (RCMP) in the absence of additional metal salts and deoxygenation. RSC Advances, 2016, 6, 97455-97462.	3.6	19

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145	Facile One-Pot Green Synthesis and Antibacterial Activities of GO/Ag Nanocomposites. Acta Metallurgica Sinica (English Letters), 2017, 30, 36-44.	2.9	19
146	Designing Visibleâ€Lightâ€Driven Zâ€scheme Catalyst 2D gâ€C₃N₄/Bi₂MoO₆: Enhanced Photodegradation Activity of Organic Pollutants. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800520.	1.8	19
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