

Wei-De Zhang

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100
papers

5,064
citations

39
h-index

69
g-index

100
ext. papers

5,570
ext. citations

5.8
avg, IF

6.45
L-index

#	Paper	IF	Citations
100	MoS ₂ /CdS Heterojunction with High Photoelectrochemical Activity for H ₂ Evolution under Visible Light: The Role of MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12949-12957	3.8	352
99	Facile synthesis of nanostructured BiOI microspheres with high visible light-induced photocatalytic activity. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5866		321
98	Modification of g-C ₃ N ₄ nanosheets by carbon quantum dots for highly efficient photocatalytic generation of hydrogen. <i>Applied Surface Science</i> , 2016 , 375, 110-117	6.7	197
97	Functional hybrid materials based on carbon nanotubes and metal oxides. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6383		179
96	Fabrication of SnO ₂ /ZnO nanocomposite sensor for selective sensing of trimethylamine and the freshness of fishes. <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 403-408	8.5	179
95	A highly sensitive nonenzymatic glucose sensor based on NiO-modified multi-walled carbon nanotubes. <i>Mikrochimica Acta</i> , 2010 , 168, 259-265	5.8	167
94	Electrodeposition of TiO ₂ Nanoparticles on Multiwalled Carbon Nanotube Arrays for Hydrogen Peroxide Sensing. <i>Electroanalysis</i> , 2009 , 21, 988-993	3	155
93	Cobalt-doped graphitic carbon nitride photocatalysts with high activity for hydrogen evolution. <i>Applied Surface Science</i> , 2017 , 392, 608-615	6.7	140
92	Photoelectrochemical properties of Ni-doped Fe ₂ O ₃ thin films prepared by electrodeposition. <i>Electrochimica Acta</i> , 2012 , 59, 121-127	6.7	136
91	On the heterostructured photocatalysts Ag ₃ VO ₄ /g-C ₃ N ₄ with enhanced visible light photocatalytic activity. <i>Applied Surface Science</i> , 2015 , 324, 324-331	6.7	135
90	Hierarchical Bi ₇ O ₉ I ₃ micro/nano-architecture: facile synthesis, growth mechanism, and high visible light photocatalytic performance. <i>RSC Advances</i> , 2011 , 1, 1099	3.7	135
89	Anion exchange strategy for construction of sesame-biscuit-like Bi ₂ O ₂ CO ₃ /Bi ₂ MoO ₆ nanocomposites with enhanced photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2013 , 140-141, 306-316	21.8	129
88	Photoelectrochemical Study on Charge Transfer Properties of ZnO Nanowires Promoted by Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16247-16253	3.8	127
87	Crystallization and melting behavior of multi-walled carbon nanotube-reinforced nylon-6 composites. <i>Polymer International</i> , 2006 , 55, 71-79	3.3	108
86	Ag/AgBr-Grafted Graphite-like Carbon Nitride with Enhanced Plasmonic Photocatalytic Activity under Visible Light. <i>ChemCatChem</i> , 2013 , 5, 2343-2351	5.2	107
85	Construction of ZnO/ZnS/CdS/CuInS ₂ core-shell nanowire arrays via ion exchange: p-n junction photoanode with enhanced photoelectrochemical activity under visible light. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8467-74	9.5	106
84	In ₂ O ₃ /g-C ₃ N ₄ composite photocatalysts with enhanced visible light driven activity. <i>Applied Surface Science</i> , 2014 , 301, 428-435	6.7	106

83	Carbon Self-Doping Induced Activation of n ^π Electronic Transitions of g-C ₃ N ₄ Nanosheets for Efficient Photocatalytic H ₂ Evolution. <i>ChemCatChem</i> , 2016 , 8, 3527-3535	5.2	100
82	Photoelectrochemical study on charge transfer properties of nanostructured Fe ₂ O ₃ modified by g-C ₃ N ₄ . <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 9105-9113	6.7	88
81	Enhancing visible light photocatalytic activity of nitrogen-deficient g-CN via thermal polymerization of acetic acid-treated melamine. <i>Journal of Colloid and Interface Science</i> , 2017 , 495, 27-36	9.3	86
80	Polycyclic aromatic compounds-modified graphitic carbon nitride for efficient visible-light-driven hydrogen evolution. <i>Carbon</i> , 2018 , 134, 134-144	10.4	83
79	Electrocatalytic Oxidation of Glucose at Carbon Nanotubes Supported PtRu Nanoparticles and Its Detection. <i>Electroanalysis</i> , 2008 , 20, 2212-2216	3	71
78	CdS/g-C ₃ N ₄ Hybrids with Improved Photostability and Visible Light Photocatalytic Activity. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 1744-1751	2.3	68
77	Photocatalysts based on g-C ₃ N ₄ -encapsulating carbon spheres with high visible light activity for photocatalytic hydrogen evolution. <i>Carbon</i> , 2016 , 110, 356-366	10.4	67
76	Creating Graphitic Carbon Nitride Based Donor-Acceptor-Donor Structured Catalysts for Highly Photocatalytic Hydrogen Evolution. <i>Small</i> , 2018 , 14, e1703599	11	65
75	Growth of ZnO nanowires on modified well-aligned carbon nanotube arrays. <i>Nanotechnology</i> , 2006 , 17, 1036-40	3.4	65
74	Solution-Processed Cu ₂ S Photocathodes for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2018 , 3, 760-766	20.1	64
73	Morphology, thermal, and rheological behavior of nylon 11/multi-walled carbon nanotube nanocomposites prepared by melt compounding. <i>Polymer Engineering and Science</i> , 2009 , 49, 1063-1068	2.3	59
72	Electrochemical determination of methyl parathion at a Pd/MWCNTs-modified electrode. <i>Mikrochimica Acta</i> , 2010 , 171, 57-62	5.8	59
71	Porous Graphitic Carbon Nitride Derived from Melamine/Ammonium Oxalate Stacking Sheets with Excellent Photocatalytic Hydrogen Evolution Activity. <i>ChemCatChem</i> , 2016 , 8, 2128-2135	5.2	54
70	Electrochemical oxidation of salicylic acid at well-aligned multiwalled carbon nanotube electrode and its detection. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 1713-1718	2.6	53
69	Preparation and photoelectrochemical properties of functional carbon nanotubes and Ti co-doped Fe ₂ O ₃ thin films. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 9566-9575	6.7	48
68	Gold nanoparticle-coated multiwall carbon nanotube-modified electrode for electrochemical determination of methyl parathion. <i>Mikrochimica Acta</i> , 2011 , 175, 309-314	5.8	48
67	Ternary catalysts based on amino-functionalized carbon quantum dots, graphitic carbon nitride nanosheets and cobalt complex for efficient H ₂ evolution under visible light irradiation. <i>Carbon</i> , 2019 , 145, 488-500	10.4	41
66	Electroanalysis of Dopamine at RuO ₂ Modified Vertically Aligned Carbon Nanotube Electrode. <i>Electroanalysis</i> , 2009 , 21, 1811-1815	3	41

65	Preparation and characterization of poly(vinylidene fluoride) nanocomposites containing multiwalled carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 644-650	2.9	41
64	Nano g-C ₃ N ₄ modified Ti-Fe ₂ O ₃ vertically arrays for efficient photoelectrochemical generation of hydrogen under visible light. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 7270-7279	6.7	41
63	Solvent thermal synthesis and gas-sensing properties of Fe-doped ZnO. <i>Journal of Materials Science</i> , 2010 , 45, 209-215	4.3	40
62	Sodium citrate-assisted anion exchange strategy for construction of Bi ₂ O ₂ CO ₃ /BiOI photocatalysts. <i>Materials Research Bulletin</i> , 2015 , 62, 88-95	5.1	39
61	Modification of TiO ₂ nanorods by Bi ₂ MoO ₆ nanoparticles for high performance visible-light photocatalysis. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9770-9775	5.7	38
60	Morphology-controlled synthesis of Ag ₃ PO ₄ microcrystals for high performance photocatalysis. <i>CrystEngComm</i> , 2013 , 15, 5407	3.3	37
59	MoS ₂ quantum dots interspersed WO ₃ nanoplatelet arrays with enhanced photoelectrochemical activity. <i>Electrochimica Acta</i> , 2017 , 252, 416-423	6.7	29
58	Facile synthesis of nitrogen deficient g-C ₃ N ₄ by copolymerization of urea and formamide for efficient photocatalytic hydrogen evolution. <i>Molecular Catalysis</i> , 2018 , 453, 85-92	3.3	27
57	Preparation and enhanced visible light photoelectrochemical activity of g-C ₃ N ₄ /ZnO nanotube arrays. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2921-2929	2.6	27
56	A Non-enzymatic Hydrogen Peroxide Photoelectrochemical Sensor Based on a BiVO ₄ Electrode. <i>Electroanalysis</i> , 2017 , 29, 305-311	3	27
55	Carbonyl-Grafted g-C ₃ N ₄ Porous Nanosheets for Efficient Photocatalytic Hydrogen Evolution. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 515-523	4.5	26
54	Photoelectrochemical property of the BiOBr-BiOI/ZnO heterostructures with tunable bandgap. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 1743-1750	2.6	26
53	Fabrication of a vertically aligned carbon nanotube electrode and its modification by nanostructured MnO ₂ for supercapacitors. <i>Pure and Applied Chemistry</i> , 2009 , 81, 2317-2325	2.1	24
52	Carbon nanotubes grow to pillars. <i>Nanotechnology</i> , 2005 , 16, 2442-5	3.4	24
51	Noble Metal-Free Photocatalysts Consisting of Graphitic Carbon Nitride, Nickel Complex, and Nickel Oxide Nanoparticles for Efficient Hydrogen Generation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14986-14996	9.5	23
50	Processing graphitic carbon nitride for improved photocatalytic activity. <i>Materials Science in Semiconductor Processing</i> , 2014 , 24, 15-20	4.3	23
49	Biomolecule-assisted synthesis and gas-sensing properties of porous nanosheet-based corundum In ₂ O ₃ microflowers. <i>Journal of Solid State Chemistry</i> , 2012 , 186, 29-35	3.3	23
48	Facile synthesis of Ni-doped WO ₃ nanoplate arrays for effective photoelectrochemical water splitting. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 3355-3364	2.6	22

47	Preparation and Characterization of Polyurethane/Multiwalled Carbon Nanotube Composites. <i>Polymers and Polymer Composites</i> , 2008 , 16, 501-507	0.8	22
46	Carbon nanotubes-modified graphitic carbon nitride photocatalysts with synergistic effect of nickel(II) sulfide and molybdenum(II) disulfide co-catalysts for more efficient H evolution. <i>Journal of Colloid and Interface Science</i> , 2018 , 526, 374-383	9.3	21
45	Modification of vertically aligned carbon nanotube arrays with palladium nanoparticles for electrocatalytic reduction of oxygen. <i>Mikrochimica Acta</i> , 2009 , 165, 361-366	5.8	21
44	Preparation and mechanical properties of waterborne polyurethane/carbon nanotube composites. <i>Polymer Composites</i> , 2009 , 30, 649-654	3	21
43	Triamterene-Grafted Graphitic Carbon Nitride with Electronic Potential Redistribution for Efficient Photocatalytic Hydrogen Evolution. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 3073-3083	4.5	20
42	Earth abundant ZnO/CdS/CuSbS ₂ core-shell nanowire arrays as highly efficient photoanode for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 6040-6048	6.7	19
41	Synthesis and optical properties of nanosheet-based rh-In ₂ O ₃ microflowers by triethylene glycol-mediated solvothermal process. <i>Journal of Physics and Chemistry of Solids</i> , 2013 , 74, 1271-1274	3.9	19
40	Tunable ZnO nanostructures for ethanol sensing. <i>Journal of Materials Science</i> , 2009 , 44, 4677-4682	4.3	19
39	Hierarchically branched ZnO/CuO thin film with enhanced visible light photoelectrochemical property. <i>Materials Letters</i> , 2015 , 154, 44-46	3.3	18
38	Construction of a push-pull system in g-C ₃ N ₄ for efficient photocatalytic hydrogen evolution under visible light. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13299-13310	13	18
37	Enhancement of photoelectrochemical activity of Fe ₂ O ₃ nanowires decorated with carbon quantum dots. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 6954-6962	6.7	18
36	Photocatalytic Hydrogen Evolution under Ambient Conditions on Polymeric Carbon Nitride/Donor-Acceptor Organic Molecule Heterostructures. <i>Advanced Functional Materials</i> , 2020 , 30, 2005106	15.6	18
35	The role of hydrogen bonding on enhancement of photocatalytic activity of the acidified graphitic carbon nitride for hydrogen evolution. <i>Journal of Materials Science</i> , 2018 , 53, 409-422	4.3	17
34	A carbon nitride electrode for highly selective and sensitive determination of lead(II). <i>Mikrochimica Acta</i> , 2013 , 180, 1303-1308	5.8	17
33	Creating distortion in g-C ₃ N ₄ framework by incorporation of ethylenediaminetetramethylene for enhancing photocatalytic generation of hydrogen. <i>Molecular Catalysis</i> , 2017 , 432, 64-75	3.3	16
32	Hydrothermal synthesis and photocatalytic performance of hierarchical Bi ₂ MoO ₆ microspheres using BiOI microspheres as self-sacrificing templates. <i>Journal of Solid State Chemistry</i> , 2015 , 227, 247-254	3.3	15
31	Growth of porous In ₂ S ₃ films and their photoelectrochemical properties. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 2321-2330	2.6	15
30	Controlled synthesis and gas sensing properties of In ₂ O ₃ with different phases from urchin-like InOOH microspheres. <i>Materials Research Bulletin</i> , 2014 , 53, 177-184	5.1	15

29	Sputtering deposition of Pt nanoparticles on vertically aligned multiwalled carbon nanotubes for sensing L-cysteine. <i>Mikrochimica Acta</i> , 2011 , 172, 439-446	5.8	15
28	Highly Sensitive and Selective Determination of Dopamine in the Presence of Ascorbic Acid Using Pt@Au/MWNTs Modified Electrode. <i>Electroanalysis</i> , 2010 , 22, 237-243	3	15
27	Facile Preparation of AgI/Bi ₂ MoO ₆ Heterostructured Photocatalysts with Enhanced Photocatalytic Activity. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 826-831	2.3	15
26	Photoelectrochemical properties of Ti-doped hematite nanosheet arrays decorated with CdS nanoparticles. <i>RSC Advances</i> , 2016 , 6, 74234-74240	3.7	14
25	Waterborne polyurethane/NiAl-LDH/ZnO composites with high antibacterial activity. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 495-501	3.2	14
24	An efficient polymer coating for highly acid-stable zeolitic imidazolate frameworks based composite sponges. <i>Journal of Hazardous Materials</i> , 2020 , 382, 121057	12.8	14
23	Strong organic acid-assistant synthesis of holey graphitic carbon nitride for efficient visible light photocatalytic H ₂ generation. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 23091-23100	6.7	13
22	Electrodeposition of CdS onto BiVO ₄ films with high photoelectrochemical performance. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 2569-2577	2.6	13
21	Preparation and antibacterial property of waterborne polyurethane/Zn-Al layered double hydroxides/ZnO nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 409-16	1.3	13
20	Integration of nickel complex as a cocatalyst onto in-plane benzene ring-incorporated graphitic carbon nitride nanosheets for efficient photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2020 , 381, 122635	14.7	13
19	Construction of hierarchical nanostructured TiO ₂ /Bi ₂ MoO ₆ heterojunction for improved visible light photocatalysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 6294-300	1.3	12
18	Porous ultrathin WO ₃ nanoflake arrays as highly efficient photoanode for water splitting. <i>Materials Letters</i> , 2019 , 246, 161-164	3.3	11
17	Superior Photocatalytic Generation of H ₂ in Water Medium Through Grafting a Cobalt Molecule Co-Catalyst from Carbon Nitride Nanosheets. <i>ChemCatChem</i> , 2019 , 11, 2657-2666	5.2	11
16	Photocatalytic hydrogen evolution over a nickel complex anchoring to thiophene embedded g-CN. <i>Journal of Colloid and Interface Science</i> , 2021 , 596, 75-88	9.3	10
15	Highly efficient removal of methyl orange in aqueous solutions by calcined-layered double hydroxides. <i>Research on Chemical Intermediates</i> , 2015 , 41, 6803-6814	2.8	9
14	Attachment of ZnO nanoparticles onto layered double hydroxides microspheres for high performance photocatalysis. <i>Journal of Porous Materials</i> , 2014 , 21, 157-164	2.4	9
13	Delocalization of Electron in Graphitic Carbon Nitride to Promote its Photocatalytic Activity for Hydrogen Evolution. <i>ChemCatChem</i> , 2019 , 11, 5633-5641	5.2	8
12	Electrocatalytic oxidation of methanol on a platinum modified carbon nanotube electrode. <i>Mikrochimica Acta</i> , 2008 , 162, 235-243	5.8	8

11	Composite structures for enhanced photoelectrochemical activity: WS ₂ quantum dots with oriented WO ₃ arrays. <i>Journal of Materials Science</i> , 2018 , 53, 10338-10350	4.3	6
10	Boosting photocatalytic hydrogen evolution rate over carbon nitride through tuning its crystallinity and its nitrogen composition. <i>Journal of Colloid and Interface Science</i> , 2019 , 555, 268-275	9.3	6
9	Grafting polyamide 6 onto multi-walled carbon nanotubes using microwave irradiation. <i>Polymer International</i> , 2010 , 59, 1346-1349	3.3	5
8	Building sp carbon-bridged g-C ₃ N ₄ -based electron donor-acceptor unit for efficient photocatalytic water splitting. <i>Molecular Catalysis</i> , 2021 , 505, 111518	3.3	5
7	Nickel complex co-catalyst confined by chitosan onto graphitic carbon nitride for efficient H ₂ evolution. <i>Journal of Colloid and Interface Science</i> , 2020 , 560, 11-20	9.3	5
6	Tuning Nitrogen Content in Carbon Nitride by Isonicotinic Acid for Highly Efficient Photocatalytic Hydrogen Evolution. <i>ChemCatChem</i> , 2018 , 11, 1045	5.2	4
5	Photocatalytic Hydrogen Evolution: Photocatalytic Hydrogen Evolution under Ambient Conditions on Polymeric Carbon Nitride/Donor-Acceptor Organic Molecule Heterostructures (Adv. Funct. Mater. 43/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070288	15.6	3
4	An efficient ternary photocatalyst via anchoring nickel complex and nickel oxides onto carbon nitride for visible light driven H ₂ evolution. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 7782-7793	6.7	3
3	Efficient photocatalytic H ₂ evolution and methylation of ketones from copper complex modified polymeric carbon nitride. <i>Chemical Engineering Journal</i> , 2022 , 427, 132042	14.7	3
2	A strategy for integrating transition metal-complex cocatalyst onto g-C ₃ N ₄ to enable efficient photocatalytic hydrogen evolution. <i>Molecular Catalysis</i> , 2021 , 515, 111856	3.3	1
1	Anchoring nickel complex to g-CN enables an efficient photocatalytic hydrogen evolution reaction through ligand-to-metal charge transfer mechanism.. <i>Journal of Colloid and Interface Science</i> , 2022 , 616, 791-802	9.3	1