

Wei-De Zhang

List of Publications by Year in descending order

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66234

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all docs

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docs citations

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times ranked

7962
citing authors

#	ARTICLE	IF	CITATIONS
1	MoS ₂ /CdS Heterojunction with High Photoelectrochemical Activity for H ₂ Evolution under Visible Light: The Role of MoS ₂ . Journal of Physical Chemistry C, 2013, 117, 12949-12957.	1.5	399
2	Facile synthesis of nanostructured BiOI microspheres with high visible light-induced photocatalytic activity. Journal of Materials Chemistry, 2010, 20, 5866.	6.7	344
3	Modification of g-C ₃ N ₄ nanosheets by carbon quantum dots for highly efficient photocatalytic generation of hydrogen. Applied Surface Science, 2016, 375, 110-117.	3.1	244
4	Functional hybrid materials based on carbon nanotubes and metal oxides. Journal of Materials Chemistry, 2010, 20, 6383.	6.7	206
5	Fabrication of SnO ₂ @ZnO nanocomposite sensor for selective sensing of trimethylamine and the freshness of fishes. Sensors and Actuators B: Chemical, 2008, 134, 403-408.	4.0	202
6	A highly sensitive nonenzymatic glucose sensor based on NiO-modified multi-walled carbon nanotubes. Mikrochimica Acta, 2010, 168, 259-265.	2.5	191
7	Cobalt-doped graphitic carbon nitride photocatalysts with high activity for hydrogen evolution. Applied Surface Science, 2017, 392, 608-615.	3.1	191
8	Electrodeposition of TiO ₂ Nanoparticles on Multiwalled Carbon Nanotube Arrays for Hydrogen Peroxide Sensing. Electroanalysis, 2009, 21, 988-993.	1.5	173
9	Photoelectrochemical properties of Ni-doped Fe ₂ O ₃ thin films prepared by electrodeposition. Electrochimica Acta, 2012, 59, 121-127.	2.6	157
10	On the heterostructured photocatalysts Ag ₃ VO ₄ /g-C ₃ N ₄ with enhanced visible light photocatalytic activity. Applied Surface Science, 2015, 324, 324-331.	3.1	155
11	Hierarchical Bi ₇ O ₉ I ₃ micro/nano-architecture: facile synthesis, growth mechanism, and high visible light photocatalytic performance. RSC Advances, 2011, 1, 1099.	1.7	152
12	Anion exchange strategy for construction of sesame-biscuit-like Bi ₂ O ₂ CO ₃ /Bi ₂ MoO ₆ nanocomposites with enhanced photocatalytic activity. Applied Catalysis B: Environmental, 2013, 140-141, 306-316.	10.8	147
13	Photoelectrochemical Study on Charge Transfer Properties of ZnO Nanowires Promoted by Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 16247-16253.	1.5	141
14	Carbon Self-Doping Induced Activation of n- π^* Electronic Transitions of g-C ₃ N ₄ Nanosheets for Efficient Photocatalytic H ₂ Evolution. ChemCatChem, 2016, 8, 3527-3535.	1.8	139
15	In ₂ O ₃ /g-C ₃ N ₄ composite photocatalysts with enhanced visible light driven activity. Applied Surface Science, 2014, 301, 428-435.	3.1	127
16	Polycyclic aromatic compounds-modified graphitic carbon nitride for efficient visible-light-driven hydrogen evolution. Carbon, 2018, 134, 134-144.	5.4	126
17	Enhancing visible light photocatalytic activity of nitrogen-deficient g-C ₃ N ₄ via thermal polymerization of acetic acid-treated melamine. Journal of Colloid and Interface Science, 2017, 495, 27-36.	5.0	123
18	Crystallization and melting behavior of multi-walled carbon nanotube-reinforced nylon-6 composites. Polymer International, 2006, 55, 71-79.	1.6	120

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19	Ag/AgBr-Grafted Graphite-Like Carbon Nitride with Enhanced Plasmonic Photocatalytic Activity under Visible Light. <i>ChemCatChem</i> , 2013, 5, 2343-2351.	1.8	119
20	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, 8467-8474.	4.0	114
21	Creating Graphitic Carbon Nitride Based Donor-Acceptor Donor Structured Catalysts for Highly Photocatalytic Hydrogen Evolution. <i>Small</i> , 2018, 14, e1703599.	5.2	100
22	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.	3.8	99
23	Solution-Processed Cu ₂ S Photocathodes for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2018, 3, 760-766.	8.8	89
24	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.	5.4	88
25	Electrochemical determination of methyl parathion at a Pd/MWCNTs-modified electrode. <i>Mikrochimica Acta</i> , 2010, 171, 57-62.	2.5	77
26	Electrocatalytic Oxidation of Glucose at Carbon Nanotubes Supported PtRu Nanoparticles and Its Detection. <i>Electroanalysis</i> , 2008, 20, 2212-2216.	1.5	76
27	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.	1.0	75
28	Growth of ZnO nanowires on modified well-aligned carbon nanotube arrays. <i>Nanotechnology</i> , 2006, 17, 1036-1040.	1.3	73
29	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.	1.5	66
30	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.	1.2	63
31	Porous Graphitic Carbon Nitride Derived from Melamine-Ammonium Oxalate Stacking Sheets with Excellent Photocatalytic Hydrogen Evolution Activity. <i>ChemCatChem</i> , 2016, 8, 2128-2135.	1.8	63
32	Gold nanoparticle-coated multiwall carbon nanotube-modified electrode for electrochemical determination of methyl parathion. <i>Mikrochimica Acta</i> , 2011, 175, 309-314.	2.5	59
33	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.	3.8	52
34	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.	3.8	51
35	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.	1.0	51
36	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.	5.4	51

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37	Preparation and characterization of poly(vinylidene fluoride) nanocomposites containing multiwalled carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2009, 113, 644-650.	1.3	49
38	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.	2.7	47
39	Photocatalytic Hydrogen Evolution under Ambient Conditions on Polymeric Carbon Nitride/Donor-Acceptor Organic Molecule Heterostructures. <i>Advanced Functional Materials</i> , 2020, 30, 2005106.	7.8	46
40	Electroanalysis of Dopamine at RuO ₂ Modified Vertically Aligned Carbon Nanotube Electrode. <i>Electroanalysis</i> , 2009, 21, 1811-1815.	1.5	44
41	Solvent thermal synthesis and gas-sensing properties of Fe-doped ZnO. <i>Journal of Materials Science</i> , 2010, 45, 209-215.	1.7	44
42	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.	2.8	42
43	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.	4.0	42
44	Morphology-controlled synthesis of Ag ₃ PO ₄ microcrystals for high performance photocatalysis. <i>CrystEngComm</i> , 2013, 15, 5407.	1.3	41
45	Carbonyl-grafted g-C ₃ N ₄ Porous Nanosheets for Efficient Photocatalytic Hydrogen Evolution. <i>Chemistry - an Asian Journal</i> , 2017, 12, 515-523.	1.7	40
46	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.	5.2	37
47	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.	3.8	34
48	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.	1.2	33
49	A Non-enzymatic Hydrogen Peroxide Photoelectrochemical Sensor Based on a BiVO ₄ Electrode. <i>Electroanalysis</i> , 2017, 29, 305-311.	1.5	33
50	MoS ₂ quantum dots interspersed WO ₃ nanoplatelet arrays with enhanced photoelectrochemical activity. <i>Electrochimica Acta</i> , 2017, 252, 416-423.	2.6	32
51	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.	6.6	32
52	An efficient polymer coating for highly acid-stable zeolitic imidazolate frameworks based composite sponges. <i>Journal of Hazardous Materials</i> , 2020, 382, 121057.	6.5	32
53	Photocatalytic hydrogen evolution over a nickel complex anchoring to thiophene embedded g-C ₃ N ₄ . <i>Journal of Colloid and Interface Science</i> , 2021, 596, 75-88.	5.0	32
54	Carbon nanotubes-modified graphitic carbon nitride photocatalysts with synergistic effect of nickel(II) sulfide and molybdenum(II) disulfide co-catalysts for more efficient H ₂ evolution. <i>Journal of Colloid and Interface Science</i> , 2018, 526, 374-383.	5.0	31

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55	Photoelectrochemical property of the BiOBr-BiOI/ZnO heterostructures with tunable bandgap. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1743-1750.	1.2	29
56	Preparation and Characterization of Polyurethane/Multiwalled Carbon Nanotube Composites. <i>Polymers and Polymer Composites</i> , 2008, 16, 501-507.	1.0	28
57	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.	1.4	27
58	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.	1.2	27
59	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.	0.9	25
60	Processing graphitic carbon nitride for improved photocatalytic activity. <i>Materials Science in Semiconductor Processing</i> , 2014, 24, 15-20.	1.9	25
61	Carbon nanotubes grow to pillars. <i>Nanotechnology</i> , 2005, 16, 2442-2445.	1.3	24
62	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.	3.8	24
63	Tunable ZnO nanostructures for ethanol sensing. <i>Journal of Materials Science</i> , 2009, 44, 4677-4682.	1.7	22
64	Preparation and mechanical properties of waterborne polyurethane/carbon nanotube composites. <i>Polymer Composites</i> , 2009, 30, 649-654.	2.3	22
65	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.	1.7	22
66	Triamterene-grafted Graphitic Carbon Nitride with Electronic Potential Redistribution for Efficient Photocatalytic Hydrogen Evolution. <i>Chemistry - an Asian Journal</i> , 2018, 13, 3073-3083.	1.7	22
67	Modification of vertically aligned carbon nanotube arrays with palladium nanoparticles for electrocatalytic reduction of oxygen. <i>Mikrochimica Acta</i> , 2009, 165, 361-366.	2.5	21
68	Hierarchically branched ZnO/CuO thin film with enhanced visible light photoelectrochemical property. <i>Materials Letters</i> , 2015, 154, 44-46.	1.3	21
69	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.	3.8	21
70	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.	1.9	20
71	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.	2.7	19
72	Electrodeposition of CdS onto BiVO ₄ films with high photoelectrochemical performance. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2569-2577.	1.2	19

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73	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.	1.8	19
74	A carbon nitride electrode for highly selective and sensitive determination of lead(II). <i>Mikrochimica Acta</i> , 2013, 180, 1303-1308.	2.5	18
75	Waterborne polyurethane/NiAl-LDH/ZnO composites with high antibacterial activity. <i>Polymers for Advanced Technologies</i> , 2015, 26, 495-501.	1.6	18
76	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.	1.0	18
77	Efficient photocatalytic H ₂ evolution and α -methylation of ketones from copper complex modified polymeric carbon nitride. <i>Chemical Engineering Journal</i> , 2022, 427, 132042.	6.6	18
78	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.	1.5	17
79	Sputtering deposition of Pt nanoparticles on vertically aligned multiwalled carbon nanotubes for sensing L-cysteine. <i>Mikrochimica Acta</i> , 2011, 172, 439-446.	2.5	17
80	Growth of porous In ₂ S ₃ films and their photoelectrochemical properties. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2321-2330.	1.2	17
81	Photoelectrochemical properties of Ti-doped hematite nanosheet arrays decorated with CdS nanoparticles. <i>RSC Advances</i> , 2016, 6, 74234-74240.	1.7	17
82	Delocalization of π -Electron in Graphitic Carbon Nitride to Promote its Photocatalytic Activity for Hydrogen Evolution. <i>ChemCatChem</i> , 2019, 11, 5633-5641.	1.8	17
83	Preparation and Antibacterial Property of Waterborne Polyurethane/Zn-Al Layered Double Hydroxides/ZnO Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 409-416.	0.9	16
84	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.	1.0	16
85	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.	1.4	15
86	Porous ultrathin WO ₃ nanoflake arrays as highly efficient photoanode for water splitting. <i>Materials Letters</i> , 2019, 246, 161-164.	1.3	15
87	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, 6294-6300.	0.9	13
88	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.	3.8	13
89	Anchoring nickel complex to g-C ₃ N ₄ 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.	5.0	13
90	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.	5.0	12

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91	Attachment of ZnO nanoparticles onto layered double hydroxides microspheres for high performance photocatalysis. <i>Journal of Porous Materials</i> , 2014, 21, 157-164.	1.3	11
92	Highly efficient removal of methyl orange in aqueous solutions by calcined-layered double hydroxides. <i>Research on Chemical Intermediates</i> , 2015, 41, 6803-6814.	1.3	11
93	Grafting polyamide 6 onto multi-walled carbon nanotubes using microwave irradiation. <i>Polymer International</i> , 2010, 59, 1346-1349.	1.6	10
94	Electrocatalytic oxidation of methanol on a platinum modified carbon nanotube electrode. <i>Mikrochimica Acta</i> , 2008, 162, 235-243.	2.5	9
95	Tuning Nitrogen Content in Graphitic Carbon Nitride by Isonicotinic acid for Highly Efficient Photocatalytic Hydrogen Evolution. <i>ChemCatChem</i> , 2018, 11, 1045.	1.8	9
96	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.	5.0	9
97	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.	1.7	7
98	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.	1.0	7
99	Photocatalytic Hydrogen Evolution: Photocatalytic Hydrogen Evolution under Ambient Conditions on Polymeric Carbon Nitride/Donor-Acceptor Organic Molecule Heterostructures (Adv. Funct. Mater.)	1.0	7
100	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.	1.0	3