

Mingshan Zhu

List of Publications by Year in descending order

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201
papers

14,326
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14655

66
h-index

24258

110
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205
all docs

205
docs citations

205
times ranked

11803
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Free Photocatalyst for H ₂ Evolution in Visible to Near-Infrared Region: Black Phosphorus/Graphitic Carbon Nitride. <i>Journal of the American Chemical Society</i> , 2017, 139, 13234-13242.	13.7	907
2	Graphene Oxide Enwrapped Ag/AgX (X = Br, Cl) Nanocomposite as a Highly Efficient Visible-Light Plasmonic Photocatalyst. <i>ACS Nano</i> , 2011, 5, 4529-4536.	14.6	672
3	Z-scheme Photocatalytic Water Splitting on a 2D Heterostructure of Black Phosphorus/Bismuth Vanadate Using Visible Light. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2160-2164.	13.8	506
4	Z-scheme Photocatalytic Water Splitting on a 2D Heterostructure of Black Phosphorus/Bismuth Vanadate Using Visible Light. <i>Angewandte Chemie</i> , 2018, 130, 2182-2186.	2.0	356
5	Au/La ₂ Ti ₂ O ₇ Nanostructures Sensitized with Black Phosphorus for Plasmon-enhanced Photocatalytic Hydrogen Production in Visible and Near-Infrared Light. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2064-2068.	13.8	284
6	Ultrathin graphitic C ₃ N ₄ nanosheet as a promising visible-light-activated support for boosting photoelectrocatalytic methanol oxidation. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 108-115.	20.2	228
7	Photocatalytic reduction elimination of UO ₂ ²⁺ pollutant under visible light with metal-free sulfur doped g-C ₃ N ₄ photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 378-385.	20.2	225
8	What is the role of light in persulfate-based advanced oxidation for water treatment?. <i>Water Research</i> , 2021, 189, 116627.	11.3	214
9	Ag/AgBr/Graphene Oxide Nanocomposite Synthesized via Oil/Water and Water/Oil Microemulsions: A Comparison of Sunlight Energized Plasmonic Photocatalytic Activity. <i>Langmuir</i> , 2012, 28, 3385-3390.	3.5	200
10	Construction of BiOCl/CuBi ₂ O ₄ S-scheme heterojunction with oxygen vacancy for enhanced photocatalytic diclofenac degradation and nitric oxide removal. <i>Chemical Engineering Journal</i> , 2021, 411, 128555.	12.7	200
11	Protruding Pt single-sites on hexagonal ZnIn ₂ S ₄ to accelerate photocatalytic hydrogen evolution. <i>Nature Communications</i> , 2022, 13, 1287.	12.8	198
12	Experimental and DFT insights into the visible-light driving metal-free C ₃ N ₅ activated persulfate system for efficient water purification. <i>Applied Catalysis B: Environmental</i> , 2021, 289, 120023.	20.2	190
13	Surfactant Assistance in Improvement of Photocatalytic Hydrogen Production with the Porphyrin Noncovalently Functionalized Graphene Nanocomposite. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1732-1740.	8.0	184
14	Clean Method for the Synthesis of Reduced Graphene Oxide-Supported PtPd Alloys with High Electrocatalytic Activity for Ethanol Oxidation in Alkaline Medium. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3607-3614.	8.0	181
15	A review of graphene-based nanomaterials for removal of antibiotics from aqueous environments. <i>Environmental Pollution</i> , 2019, 253, 100-110.	7.5	178
16	Noble metal-free near-infrared-driven photocatalyst for hydrogen production based on 2D hybrid of black Phosphorus/WS ₂ . <i>Applied Catalysis B: Environmental</i> , 2018, 221, 645-651.	20.2	171
17	Black phosphorus: A promising two dimensional visible and near-infrared-activated photocatalyst for hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 285-292.	20.2	164
18	Noble-metal-free hetero-structural CdS/Nb ₂ O ₅ /N-doped-graphene ternary photocatalytic system as visible-light-driven photocatalyst for hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2017, 201, 202-210.	20.2	153

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19	Chemical Identification of Catalytically Active Sites on Oxygen-doped Carbon Nanosheet to Decipher the High Activity for Electro-synthesis Hydrogen Peroxide. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16607-16614.	13.8	150
20	2D Bi ₂ WO ₆ /MoS ₂ as a new photo-activated carrier for boosting electrocatalytic methanol oxidation with visible light illumination. <i>Chinese Chemical Letters</i> , 2019, 30, 2338-2342.	9.0	146
21	Sophisticated Construction of Binary PdPb Alloy Nanocubes as Robust Electrocatalysts toward Ethylene Glycol and Glycerol Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12659-12665.	8.0	142
22	Sunlight-driven plasmonic photocatalysts based on Ag/AgCl nanostructures synthesized via an oil-in-water medium: enhanced catalytic performance by morphology selection. <i>Journal of Materials Chemistry</i> , 2011, 21, 16413.	6.7	136
23	Insight into iron group transition metal phosphides (Fe ₂ P, Co ₂ P, Ni ₂ P) for improving photocatalytic hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 330-336.	20.2	133
24	Immobilizing perovskite CsPbBr ₃ nanocrystals on Black phosphorus nanosheets for boosting charge separation and photocatalytic CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119230.	20.2	132
25	New Method to Synthesize S-Doped TiO ₂ with Stable and Highly Efficient Photocatalytic Performance under Indoor Sunlight Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 3123-3129.	6.7	128
26	Highly efficient electrocatalytic performance based on Pt nanoflowers modified reduced graphene oxide/carbon cloth electrode. <i>Journal of Materials Chemistry</i> , 2012, 22, 13707.	6.7	126
27	Construction of 2D/2D BiVO ₄ /g-C ₃ N ₄ nanosheet heterostructures with improved photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 251-258.	9.4	121
28	In situ photoreduction of structural Fe(III) in a metal-organic framework for peroxydisulfate activation and efficient removal of antibiotics in real wastewater. <i>Journal of Hazardous Materials</i> , 2020, 388, 121996.	12.4	121
29	Construction of piezoelectric BaTiO ₃ /MoS ₂ heterojunction for boosting piezo-activation of peroxymonosulfate. <i>Chinese Chemical Letters</i> , 2021, 32, 2052-2056.	9.0	119
30	Construction of Pt/graphitic C ₃ N ₄ /MoS ₂ heterostructures on photo-enhanced electrocatalytic oxidation of small organic molecules. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 283-293.	20.2	117
31	High Efficiency Photoelectrocatalytic Methanol Oxidation on CdS Quantum Dots Sensitized Pt Electrode. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5972-5980.	8.0	116
32	Phase Effect of Ni _x P _y Hybridized with g-C ₃ N ₄ for Photocatalytic Hydrogen Generation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30583-30590.	8.0	116
33	Black Phosphorus Sensitized TiO ₂ Mesocrystal Photocatalyst for Hydrogen Evolution with Visible and Near-Infrared Light Irradiation. <i>ACS Catalysis</i> , 2019, 9, 3618-3626.	11.2	115
34	Au Nanorod Photosensitized La ₂ Ti ₂ O ₇ Nanosteps: Successive Surface Heterojunctions Boosting Visible to Near-Infrared Photocatalytic H ₂ Evolution. <i>ACS Catalysis</i> , 2018, 8, 122-131.	11.2	114
35	Photocatalysis removing of NO based on modified carbon nitride: The effect of celestite mineral particles. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 459-468.	20.2	112
36	Template-Free Synthesis of Cube-like Ag/AgCl Nanostructures via a Direct-Precipitation Protocol: Highly Efficient Sunlight-Driven Plasmonic Photocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6386-6392.	8.0	111

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37	Near-infrared light to heat conversion in peroxydisulfate activation with MoS ₂ : A new photo-activation process for water treatment. <i>Water Research</i> , 2021, 190, 116720.	11.3	109
38	Visible-Light-Assisted Electrocatalytic Oxidation of Methanol Using Reduced Graphene Oxide Modified Pt Nanoflowers-TiO ₂ Nanotube Arrays. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17753-17761.	8.0	107
39	Two dimensional MoS ₂ /graphene composites as promising supports for Pt electrocatalysts towards methanol oxidation. <i>Journal of Power Sources</i> , 2015, 275, 483-488.	7.8	106
40	Visible light-assisted peroxydisulfate activation via hollow copper tungstate spheres for removal of antibiotic sulfamethoxazole. <i>Chinese Chemical Letters</i> , 2020, 31, 2721-2724.	9.0	104
41	Exfoliated carbon nitride nanosheets decorated with NiS as an efficient noble-metal-free visible-light-driven photocatalyst for hydrogen evolution. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17355-17361.	2.8	103
42	Efficient catalytic ozonation of bisphenol-A over reduced graphene oxide modified sea urchin-like $\text{I}_2\text{-MnO}_2$ architectures. <i>Journal of Hazardous Materials</i> , 2015, 294, 201-208.	12.4	102
43	Piezo-activation of peroxymonosulfate for benzothiazole removal in water. <i>Journal of Hazardous Materials</i> , 2020, 393, 122448.	12.4	102
44	Heterogeneous Photocatalytic Activation of Persulfate for the Removal of Organic Contaminants in Water: A Critical Review. <i>ACS ES&T Engineering</i> , 2022, 2, 527-546.	7.6	101
45	Highly efficient visible-light-driven plasmonic photocatalysts based on graphene oxide-hybridized one-dimensional Ag/AgCl heteroarchitectures. <i>Journal of Materials Chemistry</i> , 2012, 22, 21487.	6.7	98
46	Visible-light-assisted peroxymonosulfate activation over Fe(II)/V(IV) self-doped FeVO ₄ nanobelts with enhanced sulfamethoxazole degradation: Performance and mechanism. <i>Chemical Engineering Journal</i> , 2021, 403, 126384.	12.7	97
47	Facile synthesis of PtAu nanoparticles supported on polydopamine reduced and modified graphene oxide as a highly active catalyst for methanol oxidation. <i>Electrochimica Acta</i> , 2015, 153, 175-183.	5.2	96
48	Enhanced durability of nitric oxide removal on TiO ₂ (P25) under visible light: Enabled by the direct Z-scheme mechanism and enhanced structure defects through coupling with C ₃ N ₅ . <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120372.	20.2	96
49	High-Performance Visible-Light-Driven Plasmonic Photocatalysts Ag/AgCl with Controlled Size and Shape Using Graphene Oxide as Capping Agent and Catalyst Promoter. <i>Langmuir</i> , 2013, 29, 9259-9268.	3.5	95
50	Green synthesis of 3D tripyramid TiO ₂ architectures with assistance of aloe extracts for highly efficient photocatalytic degradation of antibiotic ciprofloxacin. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118149.	20.2	92
51	New insight into the substituents affecting the peroxydisulfate nonradical oxidation of sulfonamides in water. <i>Water Research</i> , 2020, 171, 115374.	11.3	88
52	Complexes of Fe(III)-organic pollutants that directly activate Fenton-like processes under visible light. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119663.	20.2	87
53	Reduced graphene oxide modified highly ordered TiO ₂ nanotube arrays photoelectrode with enhanced photoelectrocatalytic performance under visible-light irradiation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14800-14807.	2.8	86
54	Continual injection of photoinduced electrons stabilizing surface plasmon resonance of non-elemental-metal plasmonic photocatalyst CdS/WO ₃ for efficient hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 10-15.	20.2	85

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55	Two-dimensional TiO ₂ (001) nanosheets as an effective photo-assisted recyclable sensor for the electrochemical detection of bisphenol A. <i>Chinese Chemical Letters</i> , 2020, 31, 2839-2842.	9.0	85
56	A three dimensional Pt nanodendrite/graphene/MnO ₂ nanoflower modified electrode for the sensitive and selective detection of dopamine. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7440-7448.	5.8	84
57	CuI as Hole-Transport Channel for Enhancing Photoelectrocatalytic Activity by Constructing CuI/BiOI Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13223-13230.	8.0	84
58	Black phosphorus quantum dots as dual-functional electron-selective materials for efficient plastic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8886-8894.	10.3	80
59	Tuning piezoelectric driven photocatalysis by La-doped magnetic BiFeO ₃ -based multiferroics for water purification. <i>Nano Energy</i> , 2022, 93, 106792.	16.0	80
60	Photo-assisted peroxymonosulfate activation via 2D/2D heterostructure of Ti ₃ C ₂ /g-C ₃ N ₄ for degradation of diclofenac. <i>Chemosphere</i> , 2020, 258, 127339.	8.2	78
61	Enhanced photocatalytic hydrogen evolution performance based on Ru-tris(dicarboxy)pyridine-reduced graphene oxide hybrid. <i>Journal of Materials Chemistry</i> , 2012, 22, 23773.	6.7	75
62	2D metal-free heterostructure of covalent triazine framework/g-C ₃ N ₄ for enhanced photocatalytic CO ₂ reduction with high selectivity. <i>Chinese Journal of Catalysis</i> , 2022, 43, 1306-1315.	14.0	74
63	CsPbBr ₃ perovskite nanocrystals anchoring on monolayer MoS ₂ nanosheets for efficient photocatalytic CO ₂ reduction. <i>Chemical Engineering Journal</i> , 2021, 416, 128077.	12.7	73
64	In-situ growing Bi/BiOCl microspheres on Ti ₃ C ₂ nanosheets for upgrading visible-light-driven photocatalytic activity. <i>Applied Surface Science</i> , 2020, 520, 146339.	6.1	72
65	Hierarchically 1D CdS decorated on 2D perovskite-type La ₂ Ti ₂ O ₇ nanosheet hybrids with enhanced photocatalytic performance. <i>Rare Metals</i> , 2021, 40, 1067-1076.	7.1	72
66	Recent progress on the removal of antibiotic pollutants using photocatalytic oxidation process. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 1401-1448.	12.8	72
67	Insight into the effects of hydroxyl groups on the rates and pathways of tetracycline antibiotics degradation in the carbon black activated peroxydisulfate oxidation process. <i>Journal of Hazardous Materials</i> , 2021, 412, 125256.	12.4	70
68	A new method to synthesize sulfur-doped graphene as effective metal-free electrocatalyst for oxygen reduction reaction. <i>Applied Surface Science</i> , 2017, 407, 503-508.	6.1	67
69	Selective and efficacious photoelectrochemical detection of ciprofloxacin based on the self-assembly of 2D/2D g-C ₃ N ₄ /Ti ₃ C ₂ composites. <i>Applied Surface Science</i> , 2021, 539, 148241.	6.1	65
70	Defect in reduced graphene oxide tailored selectivity of photocatalytic CO ₂ reduction on Cs ₄ PbBr ₆ perovskite hole-in-microdisk structure. <i>Nano Energy</i> , 2020, 78, 105388.	16.0	64
71	Pristine graphdiyne-hybridized photocatalysts using graphene oxide as a dual-functional coupling reagent. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 1217-1225.	2.8	62
72	A facile one-step electrochemical fabrication of reduced graphene oxide@“mutiwall carbon nanotubes” phosphotungstic acid composite for dopamine sensing. <i>Journal of Electroanalytical Chemistry</i> , 2013, 693, 9-15.	3.8	61

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73	Photo-responsive metal/semiconductor hybrid nanostructure: A promising electrocatalyst for solar light enhanced fuel cell reaction. <i>Chinese Chemical Letters</i> , 2021, 32, 1348-1358.	9.0	60
74	Surface dual redox cycles of Mn(III)/Mn(IV) and Cu(I)/Cu(II) for heterogeneous peroxymonosulfate activation to degrade diclofenac: Performance, mechanism and toxicity assessment. <i>Journal of Hazardous Materials</i> , 2021, 410, 124623.	12.4	59
75	Three-dimensional Au _{0.5} /reduced graphene oxide/Au _{0.5} /reduced graphene oxide/carbon fiber electrode and its high catalytic performance toward ethanol electrooxidation in alkaline media. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4389-4398.	10.3	58
76	Ultrathin BiOCl/nitrogen-doped graphene quantum dots composites with strong adsorption and effective photocatalytic activity for the degradation of antibiotic ciprofloxacin. <i>Applied Surface Science</i> , 2019, 496, 143655.	6.1	58
77	Protrudent Iron Single-Atom Accelerated Interfacial Piezoelectric Polarization for Self-Powered Water Motion Triggered Fenton-Like Reaction. <i>Small</i> , 2022, 18, e2105279.	10.0	58
78	Identification of Environmental Liquid-Crystal Monomers: A Class of New Persistent Organic Pollutants—Fluorinated Biphenyls and Analogues—Emitted from E-Waste Dismantling. <i>Environmental Science & Technology</i> , 2021, 55, 5984-5992.	10.0	57
79	Piezo-enhanced charge carrier separation over plasmonic Au-BiOBr for piezo-photocatalytic carbamazepine removal. <i>Applied Catalysis B: Environmental</i> , 2022, 311, 121369.	20.2	57
80	Highly Stable Graphene-Based Multilayer Films Immobilized via Covalent Bonds and Their Applications in Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2013, 23, 2422-2435.	14.9	56
81	Detection of pollutants in water bodies: electrochemical detection or photo-electrochemical detection?. <i>Chemical Communications</i> , 2020, 56, 14541-14552.	4.1	56
82	A p-n heterojunction of CuI/TiO ₂ with enhanced photoelectrocatalytic activity for methanol electro-oxidation. <i>Electrochimica Acta</i> , 2017, 245, 863-871.	5.2	55
83	Ultrathin Two-Dimensional Semiconductors for Photocatalysis in Energy and Environment Applications. <i>ChemCatChem</i> , 2019, 11, 6147-6165.	3.7	55
84	Au/La ₂ Ti ₂ O ₇ Nanostructures Sensitized with Black Phosphorus for Plasmon-Enhanced Photocatalytic Hydrogen Production in Visible and Near-Infrared Light. <i>Angewandte Chemie</i> , 2017, 129, 2096-2100.	2.0	51
85	Cu-In ₂ S ₃ nanorod induced the growth of Cu&In co-doped multi-arm CdS hetero-phase junction to promote photocatalytic H ₂ evolution. <i>Chemical Engineering Journal</i> , 2020, 399, 125785.	12.7	50
86	Photocatalytic Hydrogen Evolution Based on Efficient Energy and Electron Transfers in Donor-Bridge-Acceptor Multibranches-Porphyrin-Functionalized Platinum Nanocomposites. <i>Chemistry - A European Journal</i> , 2012, 18, 4367-4374.	3.3	49
87	High quality Pt-graphene nanocomposites for efficient electrocatalytic nitrite sensing. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 481, 43-50.	4.7	49
88	Enhanced utilization efficiency of peroxymonosulfate via water vortex-driven piezo-activation for removing organic contaminants from water. <i>Environmental Science and Ecotechnology</i> , 2022, 10, 100165.	13.5	49
89	Photocatalytic hydrogen evolution without an electron mediator using a porphyrin-pyrene conjugate functionalized Pt nanocomposite as a photocatalyst. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 4298-4304.	7.1	48
90	2D/1D heterostructure of g-C ₃ N ₄ nanosheets/CdS nanowires as effective photo-activated support for photoelectrocatalytic oxidation of methanol. <i>Catalysis Today</i> , 2018, 315, 36-45.	4.4	48

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91	Consolidated 3D Co ₃ Mn-layered double hydroxide aerogel for photo-assisted peroxymonosulfate activation in metronidazole degradation. <i>Chemical Engineering Journal</i> , 2021, 423, 130172.	12.7	48
92	Enhanced photoelectrocatalytic performance of titanium dioxide/carbon cloth based photoelectrodes by graphene modification under visible-light irradiation. <i>Journal of Hazardous Materials</i> , 2013, 263, 291-298.	12.4	47
93	Synthesis and photocatalytic activity of ultrathin two-dimensional porphyrin nanodisks via covalent organic framework exfoliation. <i>Communications Chemistry</i> , 2019, 2, .	4.5	46
94	Visible-light-driven Ag/Ag ₃ PO ₄ -based plasmonic photocatalysts: Enhanced photocatalytic performance by hybridization with graphene oxide. <i>Science Bulletin</i> , 2013, 58, 84-91.	1.7	44
95	Synergistic contributions by decreasing overpotential and enhancing charge-transfer in $\text{Ir-Fe}_{2/3}\text{O}_3/\text{Mn}_{3/4}\text{O}_4$ /graphene catalysts with heterostructures for photocatalytic water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11289-11296.	2.8	44
96	Facile synthesis of PVP-assisted PtRu/RGO nanocomposites with high electrocatalytic performance for methanol oxidation. <i>RSC Advances</i> , 2014, 4, 39612-39618.	3.6	44
97	The effect of peroxymonosulfate in WS ₂ nanosheets for the removal of diclofenac: Information exposure and degradation pathway. <i>Chemosphere</i> , 2020, 245, 125678.	8.2	44
98	Near-infrared response Pt-tipped Au nanorods/g-C ₃ N ₄ realizes photolysis of water to produce hydrogen. <i>Journal of Materials Science and Technology</i> , 2022, 119, 53-60.	10.7	44
99	Insights into photo-activated electrode for boosting electrocatalytic methanol oxidation based on ultrathin MoS ₂ nanosheets enwrapped CdS nanowires. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5006-5015.	7.1	42
100	Femtosecond time-resolved diffuse reflectance study on facet engineered charge-carrier dynamics in Ag ₃ PO ₄ for antibiotics photodegradation. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119479.	20.2	42
101	P-Type Cu-Doped Zn _{0.3} Cd _{0.7} S/Graphene Photocathode for Efficient Water Splitting in a Photoelectrochemical Tandem Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2569-2577.	6.7	41
102	Dual function of graphene oxide for assisted exfoliation of black phosphorus and electron shuttle in promoting visible and near-infrared photocatalytic H ₂ evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117864.	20.2	41
103	Fluorographene nanosheets with broad solvent dispersibility and their applications as a modified layer in organic field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20992.	2.8	40
104	High-performance 1D type-II TiO ₂ @ZnO core-shell nanorods arrays photoanodes for photoelectrochemical solar fuel production. <i>Applied Surface Science</i> , 2017, 403, 126-132.	6.1	40
105	Visible light-enhanced electrocatalytic alcohol oxidation based on two dimensional Pt-BiOBr nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2018, 524, 195-203.	9.4	40
106	Two dimensional visible-light-active Pt-BiOI photoelectrocatalyst for efficient ethanol oxidation reaction in alkaline media. <i>Applied Surface Science</i> , 2018, 430, 578-584.	6.1	40
107	A nanostructured CuWO ₄ /Mn ₃ O ₄ with p/n heterojunction as photoanode toward enhanced water oxidation. <i>Catalysis Today</i> , 2019, 335, 173-179.	4.4	40
108	Photo-electrochemical detection of dopamine in human urine and calf serum based on MIL-101 (Cr)/carbon black. <i>Mikrochimica Acta</i> , 2020, 187, 526.	5.0	40

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109	Insight into combining visible-light photocatalysis with transformation of dual metal ions for enhancing peroxymonosulfate activation over dibismuth copper oxide. <i>Chemical Engineering Journal</i> , 2020, 390, 124582.	12.7	40
110	Self-Powered Water Flow-Triggered Piezocatalytic Generation of Reactive Oxygen Species for Water Purification in Simulated Water Drainage. <i>ACS ES&T Engineering</i> , 2022, 2, 101-109.	7.6	40
111	Donor-acceptor porphyrin functionalized Pt nano-assemblies for artificial photosynthesis: a simple and efficient homogeneous photocatalytic hydrogen production system. <i>Catalysis Science and Technology</i> , 2013, 3, 2295.	4.1	39
112	Plasmonic photo-assisted electrochemical sensor for detection of trace lead ions based on Au anchored on two-dimensional g-C ₃ N ₄ /graphene nanosheets. <i>Rare Metals</i> , 2021, 40, 1727-1737.	7.1	38
113	Monitoring Transport Behavior of Charge Carriers in a Single CdS@CuS Nanowire via In Situ Single-Particle Photoluminescence Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4017-4024.	4.6	37
114	Three dimensional Pt island-on-Au architectures coupled with graphite carbon nitride nanosheets for effective photo-accelerated methanol electro-oxidation. <i>Journal of Colloid and Interface Science</i> , 2020, 558, 38-46.	9.4	37
115	Insight into combining visible-light photocatalysis with transformation of dual metal ions for enhancing peroxymonosulfate activation over dibismuth copper oxide. <i>Chemical Engineering Journal</i> , 2020, 397, 125310.	12.7	37
116	Co-occurrence of and Infant Exposure to Multiple Common and Unusual Phenolic Antioxidants in Human Breast Milk. <i>Environmental Science and Technology Letters</i> , 2020, 7, 206-212.	8.7	37
117	Recent Progress on Metallic Bismuth-Based Photocatalysts: Synthesis, Construction, and Application in Water Purification. <i>Solar Rrl</i> , 2021, 5, 2100668.	5.8	37
118	Enhanced photocatalytic hydrogen evolution based on efficient electron transfer in triphenylamine-based dye functionalized Au@Pt bimetallic core/shell nanocomposite. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 8631-8638.	7.1	36
119	RuO ₂ /TiSi ₂ /graphene composite for enhanced photocatalytic hydrogen generation under visible light irradiation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2793.	2.8	36
120	Branched Au Nanostructures Enriched with a Uniform Facet: Facile Synthesis and Catalytic Performances. <i>Scientific Reports</i> , 2015, 4, 5259.	3.3	34
121	Charge separation in a nanostep structured perovskite-type photocatalyst induced by successive surface heterojunctions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10442-10449.	10.3	34
122	Structure-dependent degradation of nitroimidazoles by cobalt-manganese layered double hydroxide catalyzed peroxymonosulfate process. <i>Chemosphere</i> , 2021, 266, 129006.	8.2	34
123	Chemical Identification of Catalytically Active Sites on Oxygen-doped Carbon Nanosheet to Decipher the High Activity for Electro-synthesis Hydrogen Peroxide. <i>Angewandte Chemie</i> , 2021, 133, 16743-16750.	2.0	34
124	Ba substituted SrTiO ₃ induced lattice deformation for enhanced piezocatalytic removal of carbamazepine from water. <i>Journal of Hazardous Materials</i> , 2022, 424, 127440.	12.4	34
125	Spherical and Sheetlike Ag/AgCl Nanostructures: Interesting Photocatalysts with Unusual Facet-Dependent yet Substrate-Sensitive Reactivity. <i>Langmuir</i> , 2015, 31, 602-610.	3.5	33
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