

Shaohua Shen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

148
papers

13,890
citations

49
h-index

117
g-index

161
ext. papers

16,199
ext. citations

11.3
avg, IF

6.95
L-index

#	Paper	IF	Citations
148	A Semiconductor-Mediator-Catalyst Artificial Photosynthetic System for Photoelectrochemical Water Oxidation.. <i>Chemistry - A European Journal</i> , 2022 , e202102630	4.8	0
147	Kinetic and thermodynamic synergy of spongiform nanostructure and alien dopants enables promoted sodium-ion transfer for high-performance sodium storage. <i>Chemical Engineering Journal</i> , 2022 , 433, 133555	14.7	1
146	Synergistic effect of nitrogen vacancy on ultrathin graphitic carbon nitride porous nanosheets for highly efficient photocatalytic H ₂ evolution. <i>Chemical Engineering Journal</i> , 2022 , 431, 134101	14.7	14
145	Regulation on polymerization degree and surface feature in graphitic carbon nitride towards efficient photocatalytic H ₂ evolution under visible-light irradiation. <i>Journal of Materials Science and Technology</i> , 2022 , 98, 160-168	9.1	16
144	Instability Issues and Stabilization Strategies of Lead Halide Perovskites for Photo(electro)catalytic Solar Fuel Production.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 1806-1824	6.4	2
143	Enhanced photocatalytic water splitting of TiO ₂ by decorating with facet-controlled Au nanocrystals. <i>Applied Physics Letters</i> , 2021 , 119, 143901	3.4	3
142	Boron-doped nitrogen-deficient carbon nitride-based Z-scheme heterostructures for photocatalytic overall water splitting. <i>Nature Energy</i> , 2021 , 6, 388-397	62.3	219
141	Theoretical Insights into the Limitation of Photocatalytic Overall Water Splitting Performance of VIA Group Elements Doped Polymeric Carbon Nitride: A Density Functional Theory Calculation Predicting Solar-to-Hydrogen Efficiency. <i>Solar Rrl</i> , 2021 , 5, 2000630	7.1	2
140	Recent Progress on Photocatalytic CO ₂ Reduction with Earth-abundant Single-atom Reactive Sites. <i>ChemNanoMat</i> , 2021 , 7, 873-880	3.5	3
139	Nanosized BaSnO ₃ as Electron Transport Promoter Coupled with g-C ₃ N ₄ toward Enhanced Photocatalytic H ₂ Production. <i>Advanced Sustainable Systems</i> , 2021 , 5, 2100138	5.9	3
138	Revealing Active Function of Multicomponent Electrocatalysts from In Situ Nickel Redox for Oxygen Evolution. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 16420-16427	3.8	2
137	Single-atom nickel terminating sp and sp nitride in polymeric carbon nitride for visible-light photocatalytic overall water splitting. <i>Chemical Science</i> , 2021 , 12, 3633-3643	9.4	23
136	Ion Irradiation Inducing Oxygen Vacancy-Rich NiO/NiFe O Heterostructure for Enhanced Electrocatalytic Water Splitting. <i>Small</i> , 2021 , 17, e2103501	11	13
135	Disordered nitrogen-defect-rich porous carbon nitride photocatalyst for highly efficient H ₂ evolution under visible-light irradiation. <i>Carbon</i> , 2021 , 181, 193-203	10.4	29
134	Modification of Ti-doped hematite nanowires with a NiOx buffer layer for improved photoelectrochemical performance. <i>Applied Physics Letters</i> , 2021 , 119, 083901	3.4	1
133	Oriented thermal etching of hollow carbon spheres with delicate heat management for efficient solar steam generation. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 178, 121579	4.9	3
132	Transition-metal alloy electrocatalysts with active sites modulated by metal-carbide heterophases for efficient oxygen evolution. <i>Nano Energy</i> , 2021 , 88, 106216	17.1	10

131	Manipulating metal-oxygen local atomic structures in single-junctional p-Si/WO ₃ photocathodes for efficient solar hydrogen generation. <i>Nano Research</i> , 2020 , 14, 2285	10	4
130	Regulating Crystal Structure and Atomic Arrangement in Single-Component Metal Oxides through Electrochemical Conversion for Efficient Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 57038-57046	9.5	9
129	Stable CdTe Photoanodes with Energetics Matching Those of a Coating Intermediate Band. <i>ACS Energy Letters</i> , 2020 , 5, 1865-1871	20.1	8
128	Coupling Photothermal Effect into Efficient Photocatalytic H ₂ Production by Using a Plate-like Cu@Ni Core-shell Cocatalyst. <i>ChemCatChem</i> , 2020 , 12, 2745-2751	5.2	7
127	Electronic structures associated with enhanced photocatalytic activity in nanogap-engineered g-C ₃ N ₄ /Ag@SiO ₂ hybrid nanostructures. <i>Applied Surface Science</i> , 2020 , 514, 145907	6.7	4
126	Enhanced photoelectrochemical performance of an Fe ₂ O ₃ nanorods photoanode with embedded nanocavities formed by helium ions implantation. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 9408-9415	6.7	9
125	Function-switchable metal/semiconductor junction enables efficient photocatalytic overall water splitting with selective water oxidation products. <i>Science Bulletin</i> , 2020 , 65, 1389-1395	10.6	20
124	Progress and Prospects of Non-Metal Doped Graphitic Carbon Nitride for Improved Photocatalytic Performances. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2020 , 36, 1905080-0	3.8	44
123	A [001]-Oriented Hittorf's Phosphorus Nanorods/Polymeric Carbon Nitride Heterostructure for Boosting Wide-Spectrum-Responsive Photocatalytic Hydrogen Evolution from Pure Water. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 868-873	16.4	100
122	A [001]-Oriented Hittorf's Phosphorus Nanorods/Polymeric Carbon Nitride Heterostructure for Boosting Wide-Spectrum-Responsive Photocatalytic Hydrogen Evolution from Pure Water. <i>Angewandte Chemie</i> , 2020 , 132, 878-883	3.6	26
121	A stable dye-sensitized photoelectrosynthesis cell mediated by a NiO overlayer for water oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12564-12571	11.5	21
120	Graphitic Carbon Nitride-Based Low-Dimensional Heterostructures for Photocatalytic Applications. <i>Solar Rrl</i> , 2020 , 4, 1900435	7.1	40
119	Operando Spectral and Electrochemical Investigation into the Heterophase Stimulated Active Species Transformation in Transition-Metal Sulfides for Efficient Electrocatalytic Oxygen Evolution. <i>ACS Catalysis</i> , 2020 , 10, 1855-1864	13.1	65
118	Application of ion beam technology in (photo)electrocatalytic materials for renewable energy. <i>Applied Physics Reviews</i> , 2020 , 7, 041303	17.3	10
117	Interface and surface engineering of hematite photoanode for efficient solar water oxidation. <i>Journal of Chemical Physics</i> , 2020 , 152, 244707	3.9	2
116	Hybrid Photoelectrochemical Water Splitting Systems: From Interface Design to System Assembly. <i>Advanced Energy Materials</i> , 2020 , 10, 1900399	21.8	78
115	Learning from nature: Understanding hydrogenase enzyme using computational approach. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2020 , 10, e1422	7.9	3
114	A ternary nanostructured Fe ₂ O ₃ /Au/TiO ₂ photoanode with reconstructed interfaces for efficient photoelectrocatalytic water splitting. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118206	21.8	41

113	Surface Electronic Structure Reconfiguration of Hematite Nanorods for Efficient Photoanodic Water Oxidation. <i>Solar Rrl</i> , 2020 , 4, 1900349	7.1	12
112	Strategies to improve the photoelectrochemical performance of hematite nanorod-based photoanodes. <i>APL Materials</i> , 2020 , 8, 040905	5.7	18
111	Single Metal Atom Photocatalysis. <i>Small Methods</i> , 2019 , 3, 1800447	12.8	74
110	Plasma-Assisted Photocatalysis of CH ₄ and CO ₂ into Ethylene. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11455-11463	8.3	32
109	Red phosphorus decorated and doped TiO ₂ nanofibers for efficient photocatalytic hydrogen evolution from pure water. <i>Applied Catalysis B: Environmental</i> , 2019 , 255, 117764	21.8	102
108	Identification of a Nitrogen-related acceptor in ZnO nanowires. <i>Nanoscale</i> , 2019 , 11, 10921-10926	7.7	4
107	Cascading Interfaces Enable n-Si Photoanodes for Efficient and Stable Solar Water Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2278-2285	6.4	9
106	Artificial Photosynthesis with Polymeric Carbon Nitride: When Meeting Metal Nanoparticles, Single Atoms, and Molecular Complexes. <i>Small</i> , 2019 , 15, e1900772	11	59
105	Tin(IV)-Tolerant Vapor-Phase Growth and Photophysical Properties of Aligned Cesium Tin Halide Perovskite (CsSnX ₃ ; X = Br, I) Nanowires. <i>ACS Energy Letters</i> , 2019 , 4, 1045-1052	20.1	51
104	Bifunctional cobalt phosphide nanoparticles with convertible surface structure for efficient electrocatalytic water splitting in alkaline solution. <i>Journal of Catalysis</i> , 2019 , 371, 262-269	7.3	31
103	Probing the Active Sites of Carbon-Encapsulated Cobalt Nanoparticles for Oxygen Reduction. <i>Small Methods</i> , 2019 , 3, 1800439	12.8	21
102	Effects of N implantation on defect formation in ZnO nanowires. <i>Thin Solid Films</i> , 2019 , 687, 137449	2.2	8
101	Surface sulfurization activating hematite nanorods for efficient photoelectrochemical water splitting. <i>Science Bulletin</i> , 2019 , 64, 1262-1271	10.6	24
100	CdS nanocrystallites sensitized ZnO nanorods with plasmon enhanced photoelectrochemical performance. <i>Chinese Chemical Letters</i> , 2019 , 30, 2363-2367	8.1	20
99	Synergy of Dopants and Defects in Graphitic Carbon Nitride with Exceptionally Modulated Band Structures for Efficient Photocatalytic Oxygen Evolution. <i>Advanced Materials</i> , 2019 , 31, e1903545	24	282
98	Selective Molecular Sieving through a Large Graphene Nanopore with Surface Charges. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7188-7194	6.4	29
97	Identifying the crystal and electronic structure evolution in tri-component transition metal oxide nanosheets for efficient electrocatalytic oxygen evolution. <i>EcoMat</i> , 2019 , 1, e12005	9.4	10
96	Ultrafine polycrystalline titania nanofibers for superior sodium storage. <i>Journal of Energy Chemistry</i> , 2019 , 38, 153-161	12	4

95	Protected Hematite Nanorod Arrays with Molecular Complex Co-Catalyst for Efficient and Stable Photoelectrochemical Water Oxidation. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 2078-2085 ^{2,3}	12
94	Defect-Induced Pt-Co-Se Coordinated Sites with Highly Asymmetrical Electronic Distribution for Boosting Oxygen-Involving Electrocatalysis. <i>Advanced Materials</i> , 2019 , 31, e1805581	24 118
93	Enhanced photocatalytic hydrogen evolution by partially replaced corner-site C atom with P in g-C ₃ N ₄ . <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 486-493	21.8 67
92	Phase-Modulated Band Alignment in CdS Nanorod/SnS _x Nanosheet Hierarchical Heterojunctions toward Efficient Water Splitting. <i>Advanced Functional Materials</i> , 2018 , 28, 1706785	15.6 82
91	Surface- and interface-engineered heterostructures for solar hydrogen generation. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 163002	3 12
90	Rational Heterostructure Design for Photoelectrochemical Water Splitting 2018 , 467-526	0
89	Vacancy-doped homojunction structural TiO ₂ nanorod photoelectrodes with greatly enhanced photoelectrochemical activity. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 2057-2063	6.7 15
88	Photocatalytic water oxidation over BiVO ₄ with interface energetics engineered by Co and Ni-metallated dicyanamides. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 502-509	11.3 14
87	Rapid high-temperature treatment on graphitic carbon nitride for excellent photocatalytic H ₂ -evolution performance. <i>Applied Catalysis B: Environmental</i> , 2018 , 233, 80-87	21.8 52
86	Steering plasmonic hot electrons to realize enhanced full-spectrum photocatalytic hydrogen evolution. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 453-462	11.3 16
85	Sodium-doped oriented zinc oxide nanorod arrays: insights into their aqueous growth design, crystal structure, and optical properties. <i>MRS Communications</i> , 2018 , 8, 570-576	2.7 1
84	A simple green approach to synthesis of sub-100 nm carbon spheres as template for TiO ₂ hollow nanospheres with enhanced photocatalytic activities. <i>Science China Materials</i> , 2018 , 61, 869-877	7.1 16
83	Trace Amount of Platinum Supported on Carbonized Biomorph Wood for Efficient Electrochemical Hydrogen Evolution in Alkaline Condition. <i>ChemistrySelect</i> , 2018 , 3, 2140-2143	1.8 1
82	Triggering superior sodium ion adsorption on (2 0 0) facet of mesoporous WO ₃ nanosheet arrays for enhanced supercapacitance. <i>Chemical Engineering Journal</i> , 2018 , 345, 165-173	14.7 28
81	Nickel complex engineered interface energetics for efficient photoelectrochemical hydrogen evolution over p-Si. <i>Applied Catalysis B: Environmental</i> , 2018 , 220, 362-366	21.8 21
80	Electronic Structure Evolution in Tricomponent Metal Phosphides with Reduced Activation Energy for Efficient Electrocatalytic Oxygen Evolution. <i>Small</i> , 2018 , 14, e1801756	11 52
79	Titanium dioxide nanostructures for photoelectrochemical applications. <i>Progress in Materials Science</i> , 2018 , 98, 299-385	42.2 148
78	Activating K ⁺ -Type Organometallic Precursors at Metal Oxide Surfaces for Enhanced Solar Water Oxidation. <i>ACS Energy Letters</i> , 2018 , 3, 1613-1619	20.1 24

77	Visible light-induced electronic structure modulation of Nb- and Ta-doped β -FeO nanorods for effective photoelectrochemical water splitting. <i>Nanotechnology</i> , 2018 , 29, 064002	3.4	13
76	SEMICONDUCTING PHOTOCATALYSIS FOR SOLAR HYDROGEN CONVERSION 2018 , 63-108		
75	Engineering the coordination geometry of metal-organic complex electrocatalysts for highly enhanced oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 805-810	13	57
74	Reversible Structural Evolution of NiCoO _x H _y during the Oxygen Evolution Reaction and Identification of the Catalytically Active Phase. <i>ACS Catalysis</i> , 2018 , 8, 1238-1247	13.1	107
73	Enhancing Solar-Driven Water Splitting with Surface-Engineered Nanostructures. <i>Solar Rrl</i> , 2018 , 3, 1800285	2.8	4
72	Interfacial and Dimensional Effects of Pd Co-Catalyst for Efficient Photocatalytic Hydrogen Generation. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 25165-25173	3.8	21
71	Electron-transfer dependent photocatalytic hydrogen generation over cross-linked CdSe/TiO type-II heterostructure. <i>Nanotechnology</i> , 2017 , 28, 084002	3.4	27
70	W ion implantation boosting visible-light photoelectrochemical water splitting over ZnO nanorod arrays. <i>Journal of Photonics for Energy</i> , 2017 , 7, 016501	1.2	4
69	LaTiON-LaCrO: continuous solid solutions towards enhanced photocatalytic H evolution under visible-light irradiation. <i>Dalton Transactions</i> , 2017 , 46, 10685-10693	4.3	3
68	Spatial charge separation of one-dimensional Ni ₂ P-Cd _{0.9} Zn _{0.1} S/g-C ₃ N ₄ heterostructure for high-quantum-yield photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2017 , 217, 551-559	21.8	93
67	Pulsed laser-deposited n-Si/NiO _x photoanodes for stable and efficient photoelectrochemical water splitting. <i>Catalysis Science and Technology</i> , 2017 , 7, 2632-2638	5.5	15
66	Molecular Design of Polymer Heterojunctions for Efficient Solar-Hydrogen Conversion. <i>Advanced Materials</i> , 2017 , 29, 1606198	24	149
65	Vapor-Phase Epitaxial Growth of Aligned Nanowire Networks of Cesium Lead Halide Perovskites (CsPbX ₃ , X = Cl, Br, I). <i>Nano Letters</i> , 2017 , 17, 460-466	11.5	199
64	Filling the oxygen vacancies in Co ₃ O ₄ with phosphorus: an ultra-efficient electrocatalyst for overall water splitting. <i>Energy and Environmental Science</i> , 2017 , 10, 2563-2569	35.4	616
63	A transparent CdS@TiO nanotextile photoanode with boosted photoelectrocatalytic efficiency and stability. <i>Nanoscale</i> , 2017 , 9, 15650-15657	7.7	37
62	Single-Crystal Thin Films of Cesium Lead Bromide Perovskite Epitaxially Grown on Metal Oxide Perovskite (SrTiO ₃). <i>Journal of the American Chemical Society</i> , 2017 , 139, 13525-13532	16.4	147
61	In situ evolution of highly dispersed amorphous CoO clusters for oxygen evolution reaction. <i>Nanoscale</i> , 2017 , 9, 11969-11975	7.7	110
60	Atomic-Scale CoO _x Species in Metal-Organic Frameworks for Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2017 , 27, 1702546	15.6	279

59	Cobalt oxide and carbon modified hematite nanorod arrays for improved photoelectrochemical water splitting. <i>Chinese Chemical Letters</i> , 2017 , 28, 2207-2211	8.1	19
58	Interlayer interaction in ultrathin nanosheets of graphitic carbon nitride for efficient photocatalytic hydrogen evolution. <i>Journal of Catalysis</i> , 2017 , 352, 491-497	7.3	57
57	A novel hybrid artificial photosynthesis system using MoS ₂ embedded in carbon nanofibers as electron relay and hydrogen evolution catalyst. <i>Journal of Catalysis</i> , 2017 , 352, 35-41	7.3	27
56	Towards efficient solar-to-hydrogen conversion: Fundamentals and recent progress in copper-based chalcogenide photocathodes. <i>Nanophotonics</i> , 2016 , 5, 524-547	6.3	41
55	Cobaloxime coenzyme catalyzing artificial photosynthesis for hydrogen generation over CdS nanocrystals. <i>Applied Catalysis B: Environmental</i> , 2016 , 199, 134-141	21.8	16
54	Single Photogenerated Bubble at Gas-Evolving TiO ₂ Nanorod-Array Electrode. <i>Electrochimica Acta</i> , 2016 , 202, 175-185	6.7	13
53	Solar fuel production at high temperatures using ceria as a dense membrane. <i>Energy</i> , 2016 , 104, 53-63	7.9	26
52	Electrophoretic deposition of nanostructured hematite photoanodes for solar hydrogen generation. <i>Journal of Materials Research</i> , 2016 , 31, 1547-1553	2.5	
51	Nb-Doped Hematite Nanorods for Efficient Solar Water Splitting: Electronic Structure Evolution versus Morphology Alteration. <i>ChemNanoMat</i> , 2016 , 2, 704-711	3.5	35
50	Solution growth of Ta-doped hematite nanorods for efficient photoelectrochemical water splitting: a tradeoff between electronic structure and nanostructure evolution. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 3846-53	3.6	49
49	Ferrites boosting photocatalytic hydrogen evolution over graphitic carbon nitride: a case study of (Co, Ni)Fe ₂ O ₄ modification. <i>Science Bulletin</i> , 2016 , 61, 292-301	10.6	86
48	Fabrication of porous TiO ₂ nanorod array photoelectrodes with enhanced photoelectrochemical water splitting by helium ion implantation. <i>Nanoscale</i> , 2016 , 8, 10642-8	7.7	16
47	Enhanced photocatalytic hydrogen evolution over graphitic carbon nitride modified with Ti-activated mesoporous silica. <i>Applied Catalysis A: General</i> , 2016 , 521, 111-117	5.1	15
46	Surface Reconstruction of Facet-Functionalized SrTiO ₃ Nanocrystals for Photocatalytic Hydrogen Evolution. <i>ChemCatChem</i> , 2016 , 8, 798-804	5.2	28
45	CdSe-sensitized branched CdS hierarchical nanostructures for efficient photoelectrochemical solar hydrogen generation. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 11460-6	3.6	13
44	A noble-metal-free artificial photosynthesis system with TiO ₂ as electron relay for efficient photocatalytic hydrogen evolution. <i>Journal of Catalysis</i> , 2016 , 344, 141-147	7.3	21
43	Engineering Interfacial Energetics: A Novel Hybrid System of Metal Oxide Quantum Dots and Cobalt Complex for Photocatalytic Water Oxidation. <i>Electrochimica Acta</i> , 2016 , 212, 905-911	6.7	11
42	Hematite heterostructures for photoelectrochemical water splitting: rational materials design and charge carrier dynamics. <i>Energy and Environmental Science</i> , 2016 , 9, 2744-2775	35.4	352

41	Irradiation-induced TiO ₂ nanorods for photoelectrochemical hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 5034-5041	6.7	18
40	Constructing Fe ₂ O ₃ /TiO ₂ core-shell photoelectrodes for efficient photoelectrochemical water splitting. <i>Nanoscale</i> , 2015 , 7, 10094-100	7.7	65
39	Efficient enhancement of hydrogen production by Ag/Cu ₂ O/ZnO tandem triple-junction photoelectrochemical cell. <i>Applied Physics Letters</i> , 2015 , 106, 123901	3.4	33
38	Bifunctional Modification of Graphitic Carbon Nitride with MgFe ₂ O ₄ for Enhanced Photocatalytic Hydrogen Generation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18843-8	9.5	51
37	V ions implanted ZnO nanorod arrays for photoelectrochemical water splitting under visible light. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 1394-1401	6.7	68
36	Dicyanovinyl-unit-induced absorption enhancement of iridium(III) complexes in long-wavelength range and potential application in dye-sensitized solar cells. <i>Science China Chemistry</i> , 2015 , 58, 658-665	7.9	2
35	Nitrogen-doped CeO _x nanoparticles modified graphitic carbon nitride for enhanced photocatalytic hydrogen production. <i>Green Chemistry</i> , 2015 , 17, 509-517	10	81
34	N Doping to ZnO Nanorods for Photoelectrochemical Water Splitting under Visible Light: Engineered Impurity Distribution and Terraced Band Structure. <i>Scientific Reports</i> , 2015 , 5, 12925	4.9	143
33	Nanogap Engineered Plasmon-Enhancement in Photocatalytic Solar Hydrogen Conversion. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500280	4.6	47
32	Surface engineered doping of hematite nanorod arrays for improved photoelectrochemical water splitting. <i>Scientific Reports</i> , 2014 , 4, 6627	4.9	130
31	Surface passivation of undoped hematite nanorod arrays via aqueous solution growth for improved photoelectrochemical water splitting. <i>Journal of Colloid and Interface Science</i> , 2014 , 427, 20-4	9.3	25
30	Efficient enhancement of solar-water-splitting by modified Z-scheme structural WO ₃ -W-Si photoelectrodes. <i>Applied Physics Letters</i> , 2014 , 105, 143902	3.4	17
29	Synthesis and characterization of nanoporous Bi ₃ NbO ₇ films: application to photoelectrochemical water splitting. <i>RSC Advances</i> , 2014 , 4, 10542-10548	3.7	9
28	Photoelectrochemical activity of ZnFe ₂ O ₄ modified Fe ₂ O ₃ nanorod array films. <i>RSC Advances</i> , 2014 , 4, 36967	3.7	44
27	Au@SiO ₂ core/shell nanoparticle-decorated TiO ₂ nanorod arrays for enhanced photoelectrochemical water splitting. <i>Science Bulletin</i> , 2014 , 59, 2191-2198		12
26	Spatial engineering of photo-active sites on g-C ₃ N ₄ for efficient solar hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4605	13	106
25	Si photoanode protected by a metal modified ITO layer with ultrathin NiO(x) for solar water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4612-25	3.6	51
24	Enabling silicon for solar-fuel production. <i>Chemical Reviews</i> , 2014 , 114, 8662-719	68.1	274

23	Plasmonic Ag@SiO ₂ core/shell structure modified g-C ₃ N ₄ with enhanced visible light photocatalytic activity. <i>Journal of Materials Research</i> , 2014 , 29, 64-70	2.5	36
22	Toward efficient solar water splitting over hematite photoelectrodes. <i>Journal of Materials Research</i> , 2014 , 29, 29-46	2.5	58
21	Functionalized nanostructures for enhanced photocatalytic performance under solar light. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 994-1004	3	17
20	In-situ reduction synthesis of nano-sized Cu ₂ O particles modifying g-C ₃ N ₄ for enhanced photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2014 , 152-153, 335-341	21.8	259
19	Activating ZnO nanorod photoanodes in visible light by Cu ion implantation. <i>Nano Research</i> , 2014 , 7, 353-364	10	69
18	Physical and photoelectrochemical properties of Zr-doped hematite nanorod arrays. <i>Nanoscale</i> , 2013 , 5, 9867-74	7.7	83
17	Metal oxide composite enabled nanotextured Si photoanode for efficient solar driven water oxidation. <i>Nano Letters</i> , 2013 , 13, 2064-72	11.5	85
16	Facile Growth of Porous Hematite Films for Photoelectrochemical Water Splitting. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-8	2.1	3
15	Progress and Perspectives in Visible-Light-Driven Photocatalysis. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-3	2.1	1
14	Physical and photoelectrochemical characterization of Ti-doped hematite photoanodes prepared by solution growth. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14498	13	79
13	Effect of Cr doping on the photoelectrochemical performance of hematite nanorod photoanodes. <i>Nano Energy</i> , 2012 , 1, 732-741	17.1	109
12	Nickel oxide functionalized silicon for efficient photo-oxidation of water. <i>Energy and Environmental Science</i> , 2012 , 5, 7872	35.4	154
11	A novel Sn ₂ Sb ₂ O ₇ nanophotocatalyst for visible-light-driven H ₂ evolution. <i>Nano Research</i> , 2012 , 5, 576-583	18	18
10	Nanostructure designs for effective solar-to-hydrogen conversion. <i>Nanophotonics</i> , 2012 , 1, 31-50	6.3	44
9	Surface tuning for promoted charge transfer in hematite nanorod arrays as water-splitting photoanodes. <i>Nano Research</i> , 2012 , 5, 327-336	10	71
8	A perspective on solar-driven water splitting with all-oxide hetero-nanostructures. <i>Energy and Environmental Science</i> , 2011 , 4, 3889	35.4	201
7	Solar light-driven photocatalytic hydrogen evolution over ZnIn ₂ S ₄ loaded with transition-metal sulfides. <i>Nanoscale Research Letters</i> , 2011 , 6, 290	5	45
6	Surface Modification of Fe ₂ O ₃ Nanorod Array Photoanodes for Improved Light-Induced Water Splitting. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1326, 1		1

5	Semiconductor-based photocatalytic hydrogen generation. <i>Chemical Reviews</i> , 2010 , 110, 6503-70	68.1	6015
4	Effect of Noble Metal in CdS/M/TiO ₂ for Photocatalytic Degradation of Methylene Blue under Visible Light. <i>International Journal of Green Nanotechnology: Materials Science and Engineering</i> , 2010 , 1, M94-M104		28
3	Enhanced Photocatalytic Hydrogen Evolution over Cu-Doped ZnIn ₂ S ₄ under Visible Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16148-16155	3.8	254
2	Design of polymeric carbon nitride-based heterojunctions for photocatalytic water splitting: a review. <i>Environmental Chemistry Letters</i> , 1	13.3	3
1	Single-Metal Atoms and Ultra-Small Clusters Manipulating Charge Carrier Migration in Polymeric Perylene Diimide for Efficient Photocatalytic Oxygen Production. <i>Advanced Energy Materials</i> , 2200716	21.8	4