

# Gongxuan Lu

## List of Publications by Year in descending order

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236  
papers

14,448  
citations

18887

64  
h-index

30277

107  
g-index

236  
all docs

236  
docs citations

236  
times ranked

14950  
citing authors

#	ARTICLE	IF	CITATIONS
1	The enhancement of CdS photocatalytic activity for water splitting via anti-photocorrosion by coating Ni <sub>2</sub> P shell and removing nascent formed oxygen with artificial gill. Applied Catalysis B: Environmental, 2018, 221, 243-257.	10.8	371
2	5.1% Apparent quantum efficiency for stable hydrogen generation over eosin-sensitized CuO/TiO <sub>2</sub> photocatalyst under visible light irradiation. Catalysis Communications, 2007, 8, 1267-1273.	1.6	361
3	Eosin Y-sensitized graphitic carbon nitride fabricated by heating urea for visible light photocatalytic hydrogen evolution: the effect of the pyrolysis temperature of urea. Physical Chemistry Chemical Physics, 2013, 15, 7657.	1.3	332
4	Sites for High Efficient Photocatalytic Hydrogen Evolution on a Limited-Layered MoS <sub>2</sub> Cocatalyst Confined on Graphene Sheets—The Role of Graphene. Journal of Physical Chemistry C, 2012, 116, 25415-25424.	1.5	323
5	Synthesis of CdS Nanorods by an Ethylenediamine Assisted Hydrothermal Method for Photocatalytic Hydrogen Evolution. Journal of Physical Chemistry C, 2009, 113, 9352-9358.	1.5	296
6	Enhanced Electron Transfer from the Excited Eosin Y to mpg-C <sub>3</sub> N <sub>4</sub> for Highly Efficient Hydrogen Evolution under 550 nm Irradiation. Journal of Physical Chemistry C, 2012, 116, 19644-19652.	1.5	284
7	Peculiar synergetic effect of MoS <sub>2</sub> quantum dots and graphene on Metal-Organic Frameworks for photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2017, 210, 45-56.	10.8	269
8	Photocatalytic and photoelectric properties of cubic Ag <sub>3</sub> PO <sub>4</sub> sub-microcrystals with sharp corners and edges. Chemical Communications, 2012, 48, 3748.	2.2	268
9	Dye-Sensitized Reduced Graphene Oxide Photocatalysts for Highly Efficient Visible-Light-Driven Water Reduction. Journal of Physical Chemistry C, 2011, 115, 13938-13945.	1.5	265
10	Photocorrosion inhibition of CdS-based catalysts for photocatalytic overall water splitting. Nanoscale, 2020, 12, 1213-1223.	2.8	265
11	Visible Photocatalytic Water Splitting and Photocatalytic Two-Electron Oxygen Formation over Cu- and Fe-Doped g-C <sub>3</sub> N <sub>4</sub> . Journal of Physical Chemistry C, 2016, 120, 56-63.	1.5	251
12	Direct Observation of Charge Separation on Anatase TiO <sub>2</sub> Crystals with Selectively Etched {001} Facets. Journal of the American Chemical Society, 2016, 138, 2917-2920.	6.6	210
13	Enhancing catalytic activity and stability for CO <sub>2</sub> methanation on Ni@MOF-5 via control of active species dispersion. Chemical Communications, 2015, 51, 1728-1731.	2.2	209
14	Selective growth of Ag <sub>3</sub> PO <sub>4</sub> submicro-cubes on Ag nanowires to fabricate necklace-like heterostructures for photocatalytic applications. Journal of Materials Chemistry, 2012, 22, 14847.	6.7	179
15	Inhibition of photocorrosion of CdS via assembling with thin film TiO <sub>2</sub> and removing formed oxygen by artificial gill for visible light overall water splitting. Applied Catalysis B: Environmental, 2017, 212, 129-139.	10.8	168
16	Inhibition of CdS photocorrosion by Al <sub>2</sub> O <sub>3</sub> shell for highly stable photocatalytic overall water splitting under visible light irradiation. Applied Catalysis B: Environmental, 2018, 226, 373-383.	10.8	167
17	Dye-Sensitized NiS Catalyst Decorated on Graphene for Highly Efficient Reduction of Water to Hydrogen under Visible Light Irradiation. ACS Catalysis, 2014, 4, 2763-2769.	5.5	163
18	Investigation of the steam reforming of a series of model compounds derived from bio-oil for hydrogen production. Applied Catalysis B: Environmental, 2009, 88, 376-385.	10.8	157

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19	Investigation of steam reforming of acetic acid to hydrogen over Ni-Co metal catalyst. <i>Journal of Molecular Catalysis A</i> , 2007, 261, 43-48.	4.8	155
20	Photocatalytic production of hydrogen in single component and mixture systems of electron donors and monitoring adsorption of donors by in situ infrared spectroscopy. <i>Chemosphere</i> , 2003, 52, 843-850.	4.2	154
21	Eosin Y-sensitized nitrogen-doped TiO <sub>2</sub> for efficient visible light photocatalytic hydrogen evolution. <i>Journal of Molecular Catalysis A</i> , 2008, 282, 117-123.	4.8	150
22	Highly efficient hydrogen evolution over Co(OH) <sub>2</sub> nanoparticles modified g-C <sub>3</sub> N <sub>4</sub> co-sensitized by Eosin Y and Rose Bengal under Visible Light Irradiation. <i>Applied Catalysis B: Environmental</i> , 2016, 188, 56-64.	10.8	150
23	Small-sized Ni(1 1 1) particles in metal-organic frameworks with low over-potential for visible photocatalytic hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2016, 190, 12-25.	10.8	145
24	Photocatalytic hydrogen generation in the presence of chloroacetic acids over Pt/TiO <sub>2</sub> . <i>Chemosphere</i> , 2006, 63, 1312-1318.	4.2	139
25	Concave trisoctahedral Ag <sub>3</sub> PO <sub>4</sub> microcrystals with high-index facets and enhanced photocatalytic properties. <i>Chemical Communications</i> , 2013, 49, 636-638.	2.2	137
26	Visible-Light-Induced Photocatalytic Hydrogen Generation on Dye-Sensitized Multiwalled Carbon Nanotube/Pt Catalyst. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11494-11499.	1.5	132
27	The effect of impregnation strategy on structural characters and CO <sub>2</sub> methanation properties over MgO modified Ni/SiO <sub>2</sub> catalysts. <i>Catalysis Communications</i> , 2014, 54, 55-60.	1.6	132
28	Comparative study of alumina-supported transition metal catalysts for hydrogen generation by steam reforming of acetic acid. <i>Applied Catalysis B: Environmental</i> , 2010, 99, 289-297.	10.8	131
29	Unveiling the Activity and Stability Origin of BiVO <sub>4</sub> Photoanodes with FeNi Oxyhydroxides for Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18990-18995.	7.2	129
30	The Doping Effect of Bi on TiO <sub>2</sub> for Photocatalytic Hydrogen Generation and Photodecolorization of Rhodamine B. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9950-9955.	1.5	127
31	Boron and nitrogen co-doped titania with enhanced visible-light photocatalytic activity for hydrogen evolution. <i>Applied Surface Science</i> , 2008, 254, 6831-6836.	3.1	126
32	Fabrication of Low Adsorption Energy Ni-Mo Cluster Cocatalyst in Metal-Organic Frameworks for Visible Photocatalytic Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 10808-10819.	4.0	124
33	Photocatalytic hydrogen evolution over Pt/Cd <sub>0.5</sub> Zn <sub>0.5</sub> S from saltwater using glucose as electron donor: An investigation of the influence of electrolyte NaCl. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 4291-4297.	3.8	123
34	Dye-cosensitized graphene/Pt photocatalyst for high efficient visible light hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10564-10574.	3.8	121
35	Enhancing activity for carbon dioxide methanation by encapsulating (1 1 1) facet Ni particle in metal-organic frameworks at low temperature. <i>Journal of Catalysis</i> , 2017, 348, 200-211.	3.1	118
36	Improved quantum yield for photocatalytic hydrogen generation under visible light irradiation over eosin sensitized TiO <sub>2</sub> —Investigation of different noble metal loading. <i>Journal of Molecular Catalysis A</i> , 2006, 259, 275-280.	4.8	117

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37	Direct electrochemistry and electrocatalysis of hemoglobin immobilized on carbon paste electrode by silica sol-gel film. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1269-1275.	5.3	113
38	Formation of multilayer-Eosin Y-sensitized TiO <sub>2</sub> via Fe <sup>3+</sup> coupling for efficient visible-light photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 5629-5636.	3.8	111
39	Facile synthesis of tetrahedral Ag <sub>3</sub> PO <sub>4</sub> submicro-crystals with enhanced photocatalytic properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2387.	5.2	109
40	Nitrogen-incorporation activates NiFeOx catalysts for efficiently boosting oxygen evolution activity and stability of BiVO <sub>4</sub> photoanodes. <i>Nature Communications</i> , 2021, 12, 6969.	5.8	109
41	Steam reforming of acetic acid over Ni/ZrO <sub>2</sub> catalysts: Effects of nickel loading and particle size on product distribution and coke formation. <i>Applied Catalysis A: General</i> , 2012, 417-418, 281-289.	2.2	107
42	Selective Growth of Metallic Ag Nanocrystals on Ag <sub>3</sub> PO <sub>4</sub> Submicro-Cubes for Photocatalytic Applications. <i>Chemistry - A European Journal</i> , 2012, 18, 14272-14275.	1.7	100
43	High-Efficient Photocatalytic Hydrogen Evolution on Eosin Y-Sensitized Ti-MCM41 Zeolite under Visible-Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8237-8241.	1.5	97
44	Enhancement of photocatalytic activity of cadmium sulfide for hydrogen evolution by photoetching. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 2007-2013.	3.8	97
45	Two-dimensional dendritic Ag <sub>3</sub> PO <sub>4</sub> nanostructures and their photocatalytic properties. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14486.	1.3	92
46	The role of a metallic copper interlayer during visible photocatalytic hydrogen generation over a Cu/Cu <sub>2</sub> O/Cu/TiO <sub>2</sub> catalyst. <i>Catalysis Science and Technology</i> , 2017, 7, 5028-5037.	2.1	92
47	Visible-light-driven photoelectrochemical and photocatalytic performances of Cr-doped SrTiO <sub>3</sub> /TiO <sub>2</sub> heterostructured nanotube arrays. <i>Scientific Reports</i> , 2013, 3, 2720.	1.6	91
48	Modulating and controlling active species dispersion over Ni-Co bimetallic catalysts for enhancement of hydrogen production of ethanol steam reforming. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 3349-3362.	3.8	91
49	Catalytic CO oxidation over palladium supported NaZSM-5 catalysts. <i>Applied Catalysis B: Environmental</i> , 2003, 41, 279-286.	10.8	88
50	Ni-Mo-S nanoparticles modified graphitic C <sub>3</sub> N <sub>4</sub> for efficient hydrogen evolution. <i>Applied Surface Science</i> , 2018, 427, 587-597.	3.1	88
51	Uniformly Sized (112) Facet Co <sub>2</sub> P on Graphene for Highly Effective Photocatalytic Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6409-6415.	1.5	86
52	The Role of Cu(I) Species for Photocatalytic Hydrogen Generation Over CuO x /TiO <sub>2</sub> . <i>Catalysis Letters</i> , 2009, 133, 97-105.	1.4	84
53	Phosphate-assisted hydrothermal synthesis of hexagonal CdS for efficient photocatalytic hydrogen evolution. <i>CrystEngComm</i> , 2012, 14, 6974.	1.3	84
54	Robust Pt-Sn alloy decorated graphene nanohybrid cocatalyst for photocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2014, 50, 9281-9283.	2.2	84

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55	Efficient Photocatalytic Hydrogen Evolution from Water without an Electron Mediator over Pt <sup>0</sup> /Ru <sup>II</sup> Bengal Catalysts. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2630-2635.	1.5	83
56	Enhancing catalytic activity and stability for CO <sub>2</sub> methanation on Ni <sup>II</sup> /Ru <sup>II</sup> /Al <sub>2</sub> O <sub>3</sub> via modulating impregnation sequence and controlling surface active species. <i>RSC Advances</i> , 2014, 4, 16472-16479.	1.7	80
57	Functionalization of TiO <sub>2</sub> with graphene quantum dots for efficient photocatalytic hydrogen evolution. <i>Superlattices and Microstructures</i> , 2016, 94, 237-244.	1.4	77
58	Metal-free plasmonic boron phosphide/graphitic carbon nitride with core-shell structure photocatalysts for overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119410.	10.8	75
59	Inhibition of methane formation in steam reforming reactions through modification of Ni catalyst and the reactants. <i>Green Chemistry</i> , 2009, 11, 724.	4.6	74
60	Acetic acid steam reforming to hydrogen over Co <sup>II</sup> /Ce/Al <sub>2</sub> O <sub>3</sub> and Co <sup>II</sup> /La/Al <sub>2</sub> O <sub>3</sub> catalysts: The promotion effect of Ce and La addition. <i>Catalysis Communications</i> , 2010, 12, 50-53.	1.6	74
61	The difference of roles of alkaline-earth metal oxides on silica-supported nickel catalysts for CO <sub>2</sub> methanation. <i>RSC Advances</i> , 2014, 4, 58171-58177.	1.7	71
62	Inhibition of hydrogen and oxygen recombination using oxygen transfer reagent hemin chloride in Pt/TiO <sub>2</sub> dispersion for photocatalytic hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 408-415.	10.8	68
63	Bio-oil steam reforming, partial oxidation or oxidative steam reforming coupled with bio-oil dry reforming to eliminate CO <sub>2</sub> emission. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 7169-7176.	3.8	67
64	Highly efficient hydrogen production from alkaline aldehyde solutions facilitated by palladium nanotubes. <i>Nano Energy</i> , 2014, 8, 103-109.	8.2	67
65	Synthesis of silver nanowires with different aspect ratios as alcohol-tolerant catalysts for oxygen electroreduction. <i>Electrochemistry Communications</i> , 2008, 10, 1027-1030.	2.3	66
66	Visible-light driven photocatalytic hydrogen generation on Eosin Y-sensitized Pt-loaded nanotube Na <sub>2</sub> Ti <sub>2</sub> O <sub>4</sub> (OH) <sub>2</sub> . <i>Journal of Molecular Catalysis A</i> , 2007, 266, 75-79.	4.8	63
67	Nano-Cu catalyze hydrogen production from formaldehyde solution at room temperature. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 2225-2232.	3.8	63
68	Steam reforming of acetic acid over cobalt catalysts: Effects of Zr, Mg and K addition. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4793-4803.	3.8	63
69	Distinctive organized molecular assemble of MoS <sub>2</sub> , MOF and Co <sub>3</sub> O <sub>4</sub> , for efficient dye-sensitized photocatalytic H <sub>2</sub> evolution. <i>Catalysis Science and Technology</i> , 2018, 8, 2352-2363.	2.1	63
70	Facile and Rapid Oxidation Fabrication of BiOCl Hierarchical Nanostructures with Enhanced Photocatalytic Properties. <i>Chemistry - A European Journal</i> , 2013, 19, 9472-9475.	1.7	62
71	Super-paramagnetic nano-Fe <sub>3</sub> O <sub>4</sub> /graphene for visible-light-driven hydrogen evolution. <i>Chemical Communications</i> , 2015, 51, 10158-10161.	2.2	62
72	Dye-sensitized cobalt catalysts for high efficient visible light hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4836-4844.	3.8	61

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73	Facile synthesis of "C=N" linked covalent organic frameworks under ambient conditions. <i>Chemical Communications</i> , 2017, 53, 11956-11959.	2.2	61
74	Enhancing hydrogen generation via fabricating peroxide decomposition layer over NiSe/MnO <sub>2</sub> -CdS catalyst. <i>Journal of Catalysis</i> , 2018, 367, 269-282.	3.1	60
75	Pruning of the surface species on Ni/Al <sub>2</sub> O <sub>3</sub> catalyst to selective production of hydrogen via acetone and acetic acid steam reforming. <i>Applied Catalysis A: General</i> , 2012, 427-428, 49-57.	2.2	58
76	The inhibition of hydrogen and oxygen recombination reaction by halogen atoms on over-all water splitting over Pt-TiO <sub>2</sub> photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 240-252.	10.8	58
77	Control growth of uniform platinum nanotubes and their catalytic properties for methanol electrooxidation. <i>Electrochemistry Communications</i> , 2009, 11, 45-49.	2.3	57
78	Carboxyl-assisted synthesis of Co nanorods with high energy facet on graphene oxide sheets for efficient photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 789-797.	10.8	57
79	Enhancing photoactivity for hydrogen generation by electron tunneling via flip-flop hopping over iodinated graphitic carbon nitride. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 33-42.	10.8	57
80	Water splitting over core-shell structural nanorod CdS@Cr <sub>2</sub> O <sub>3</sub> catalyst by inhibition of H <sub>2</sub> -O <sub>2</sub> recombination via removing nascent formed oxygen using perfluorodecalin. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 618-625.	10.8	57
81	Syngas production by CO <sub>2</sub> reforming of ethanol over Ni/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Catalysis Communications</i> , 2009, 10, 1633-1637.	1.6	56
82	Water splitting by CdS/Pt/WO <sub>3</sub> -CeO <sub>x</sub> photocatalysts with assisting of artificial blood perfluorodecalin. <i>Journal of Catalysis</i> , 2017, 350, 189-196.	3.1	56
83	Partial Oxidation of Ethanol to Hydrogen over Ni-Fe Catalysts. <i>Catalysis Letters</i> , 2002, 81, 63-68.	1.4	53
84	Assembly of Ultra-thin NiO Layer Over Zn <sub>1-x</sub> Cd <sub>x</sub> S for Stable Visible-Light Photocatalytic Overall Water Splitting. <i>ChemSusChem</i> , 2019, 12, 1410-1420.	3.6	53
85	The long-term photocatalytic stability of Co <sup>2+</sup> -modified P25-TiO <sub>2</sub> powders for the H <sub>2</sub> production from aqueous ethanol solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 181, 263-267.	2.0	52
86	Photocatalytic hydrogen generation using glycerol wastewater over Pt/TiO <sub>2</sub> . <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2009, 4, 32-38.	0.4	51
87	Direct conversion of Bi nanospheres into 3D flower-like BiOBr nanoarchitectures with enhanced photocatalytic properties. <i>RSC Advances</i> , 2014, 4, 583-586.	1.7	51
88	Visible-light-induced hydrogen production over Pt-Eosin Y catalysts with high surface area silica gel as matrix. <i>Journal of Power Sources</i> , 2007, 166, 74-79.	4.0	50
89	Investigation of the Effects of Molecular Structure on Oxygenated Hydrocarbon Steam Re-forming. <i>Energy &amp; Fuels</i> , 2009, 23, 926-933.	2.5	49
90	Z-Scheme Photocatalytic System Utilizing Separate Reaction Centers by Directional Movement of Electrons. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8586-8593.	1.5	49

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91	Photocatalytic hydrogen evolution under visible light irradiation by the polyoxometalate $[AlSiW_{11}(H_2O)O_{39}]^{5-}$ -Eosin Y system. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 12150-12157.	3.8	49
92	Renewable hydrogen production by a mild-temperature steam reforming of the model compound acetic acid derived from bio-oil. <i>Journal of Molecular Catalysis A</i> , 2012, 355, 123-133.	4.8	49
93	Interface Charge Transfer versus Surface Proton Reduction: Which Is More Pronounced on Photoinduced Hydrogen Generation over Sensitized Pt Cocatalyst on RGO?. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13561-13568.	1.5	49
94	l-Arginine bearing an anthrylmethyl group: fluorescent molecular NAND logic gate with $H^+$ and ATP as inputs. <i>Tetrahedron Letters</i> , 2007, 48, 3891-3894.	0.7	48
95	Enhanced surface electron transfer by fabricating a core/shell Ni@NiO cluster on TiO <sub>2</sub> and its role on high efficient hydrogen generation under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8959-8968.	3.8	48
96	A novel amorphous CoSn <sub>x</sub> O <sub>y</sub> decorated graphene nanohybrid photocatalyst for highly efficient photocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2014, 50, 5037-5039.	2.2	48
97	Catalytic oxidation of cyclohexane into cyclohexanol and cyclohexanone over a TiO <sub>2</sub> /TS-1 system by dioxygen under UV irradiation. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 2423.	2.0	47
98	Size-controlled synthesis of colloidal platinum nanoparticles and their activity for the electrocatalytic oxidation of carbon monoxide. <i>Journal of Colloid and Interface Science</i> , 2005, 287, 159-166.	5.0	47
99	Direct electrochemistry and electrocatalysis of hybrid film assembled by polyelectrolyte surfactant polymer, carbon nanotubes and hemoglobin. <i>Journal of Electroanalytical Chemistry</i> , 2006, 597, 51-59.	1.9	47
100	Dependence of Onset Potential for Methanol Electrocatalytic Oxidation on Steric Location of Active Center in Multicomponent Electrocatalysts. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11897-11902.	1.5	47
101	Graft of lacunary Wells-Dawson heteropoly blue on the surface of TiO <sub>2</sub> and its photocatalytic activity under visible light. <i>Chemical Communications</i> , 2009, , 3591.	2.2	47
102	BiAg Alloy Nanospheres: A New Photocatalyst for H <sub>2</sub> Evolution from Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 19488-19493.	4.0	47
103	The roles of density-tunable surface oxygen vacancy over bouquet-like Bi <sub>2</sub> O <sub>3</sub> in enhancing photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4165.	1.3	47
104	Visible-to-ultraviolet Upconversion: Energy transfer, material matrix, and synthesis strategies. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 89-103.	10.8	47
105	Enhanced photocatalytic activity of Ag/Ag <sub>3</sub> PO <sub>4</sub> coaxial hetero-nanowires. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10612.	5.2	46
106	Modulating Photogenerated Electron Transfer and Hydrogen Production Rate by Controlling Surface Potential Energy on a Selectively Exposed Pt Facet on Pt/TiO <sub>2</sub> for Enhancing Hydrogen Production. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26415-26425.	1.5	46
107	Intrinsic magnetic characteristics-dependent charge transfer and visible photo-catalytic H <sub>2</sub> evolution reaction (HER) properties of a Fe <sub>3</sub> O <sub>4</sub> @PPy@Pt catalyst. <i>Chemical Communications</i> , 2016, 52, 3038-3041.	2.2	46
108	High performance rare earth oxides LnO <sub>x</sub> (Ln=Sc, Y, La, Ce, Pr and Nd) modified Pt/C electrocatalysts for methanol electrooxidation. <i>Journal of Power Sources</i> , 2006, 162, 1067-1072.	4.0	45

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109	TiO <sub>2</sub> Nanotube Arrays Modified with Cr-Doped SrTiO <sub>3</sub> Nanocubes for Highly Efficient Hydrogen Evolution under Visible Light. <i>Chemistry - A European Journal</i> , 2014, 20, 2654-2662.	1.7	45
110	Photo-catalytic H <sub>2</sub> evolution over a series of Keggin-structure heteropoly blue sensitized Pt/TiO <sub>2</sub> under visible light irradiation. <i>Applied Surface Science</i> , 2009, 255, 4378-4383.	3.1	44
111	Ion exchange synthesis of PAN/Ag <sub>3</sub> PO <sub>4</sub> core-shell nanofibers with enhanced photocatalytic properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1668-1671.	5.2	44
112	High efficient solar hydrogen generation by modulation of Co-Ni sulfide (220) surface structure and adjusting adsorption hydrogen energy. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 353-363.	10.8	44
113	Stable core-shell ZIF-8@ZIF-67 MOFs photocatalyst for highly efficient degradation of organic pollutant and hydrogen evolution. <i>Journal of Materials Research</i> , 2021, 36, 602-614.	1.2	44
114	Modification of TiO <sub>2</sub> with sulfate and phosphate for enhanced eosin Y-sensitized hydrogen evolution under visible light illumination. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 1903-1910.	1.6	42
115	Promoted photoinduced charge separation and directional electron transfer over dispersible xanthene dyes sensitized graphene sheets for efficient solar H <sub>2</sub> evolution. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2106-2116.	3.8	42
116	Influence of the pore structure of CeO <sub>2</sub> supports on the surface texture and catalytic activity for CO oxidation. <i>CrystEngComm</i> , 2014, 16, 5189.	1.3	42
117	Inhibition of hydrogen and oxygen reverse recombination reaction over Pt/TiO <sub>2</sub> by F <sup>-</sup> ions and its impact on the photocatalytic hydrogen formation. <i>Journal of Catalysis</i> , 2017, 353, 162-170.	3.1	42
118	Surface spintronics enhanced photo-catalytic hydrogen evolution: Mechanisms, strategies, challenges and future. <i>Applied Surface Science</i> , 2018, 434, 643-668.	3.1	42
119	Morphology-dependent activity of silver nanostructures towards the electro-oxidation of formaldehyde. <i>Electrochemistry Communications</i> , 2009, 11, 1255-1258.	2.3	41
120	Structural-Dependent Photoactivities of TiO <sub>2</sub> Nanoribbon for Visible-Light-Induced H <sub>2</sub> Evolution: The Roles of Nanocavities and Alternate Structures. <i>Langmuir</i> , 2010, 26, 447-455.	1.6	41
121	Improvement of Cu/Zn-based catalysts by nickel additive in methanol decomposition. <i>Applied Catalysis A: General</i> , 2002, 225, 77-86.	2.2	40
122	The spin-orbit coupling induced spin flip and its role in the enhancement of the photocatalytic hydrogen evolution over iodinated graphene oxide. <i>Carbon</i> , 2016, 108, 215-224.	5.4	39
123	Photosensitized reduction of water to hydrogen using novel Maya blue-like organic-inorganic hybrid material. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 285-293.	5.0	38
124	NaCl-assisted low temperature synthesis of layered Zn-In-S photocatalyst with high visible-light activity for hydrogen evolution. <i>RSC Advances</i> , 2012, 2, 3458.	1.7	38
125	The dual functional roles of Ru as co-catalyst and stabilizer of dye for photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5824-5830.	3.8	38
126	Energy transfer in covalent organic frameworks for visible-light-induced hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11872-11876.	3.8	38



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127	Steam Reforming of Acetic Acid to Hydrogen over Fe-Co Catalyst. Chemistry Letters, 2006, 35, 452-453.	0.7	37
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