Pingwu Du

List of Publications by Year
in descending order

158 papers	14,453 citations	16451 64 h-index	19749 117 g-index
164 all docs	164 docs citations	164 times ranked	15805 citing authors

#	Article	IF	Citations
1	Catalysts made of earth-abundant elements (Co, Ni, Fe) for water splitting: Recent progress and future challenges. Energy and Environmental Science, 2012, 5, 6012.	30.8	1,201
2	Making Hydrogen from Water Using a Homogeneous System Without Noble Metals. Journal of the American Chemical Society, 2009, 131, 9192-9194.	13.7	583
3	Extraordinarily efficient photocatalytic hydrogen evolution in water using semiconductor nanorods integrated with crystalline Ni₂P cocatalysts. Energy and Environmental Science, 2015, 8, 2668-2676.	30.8	519
4	A Homogeneous System for the Photogeneration of Hydrogen from Water Based on a Platinum(II) Terpyridyl Acetylide Chromophore and a Molecular Cobalt Catalyst. Journal of the American Chemical Society, 2008, 130, 12576-12577.	13.7	433
5	Black Phosphorus Revisited: A Missing Metalâ€Free Elemental Photocatalyst for Visible Light Hydrogen Evolution. Advanced Materials, 2017, 29, 1605776.	21.0	405
6	Visible Light-Driven Hydrogen Production from Aqueous Protons Catalyzed by Molecular Cobaloxime Catalysts. Inorganic Chemistry, 2009, 48, 4952-4962.	4.0	347
7	Photocatalytic Generation of Hydrogen from Water Using a Platinum(II) Terpyridyl Acetylide Chromophore. Journal of the American Chemical Society, 2006, 128, 7726-7727.	13.7	284
8	Degradation Chemistry and Stabilization of Exfoliated Few-Layer Black Phosphorus in Water. Journal of the American Chemical Society, 2018, 140, 7561-7567.	13.7	273
9	A novel two-dimensional nickel phthalocyanine-based metalâ€“organic framework for highly efficient water oxidation catalysis. Journal of Materials Chemistry A, 2018, 6, 1188-1195.	10.3	265
10	Photodriven Charge Separation Dynamics in CdSe/ZnS Core/Shell Quantum Dot/Cobaloxime Hybrid for Efficient Hydrogen Production. Journal of the American Chemical Society, 2012, 134, 16472-16475.	13.7	249
11	Crystalline Copper Phosphide Nanosheets as an Efficient Janus Catalyst for Overall Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 2240-2248.	8.0	228
12	Catalytic water oxidation at single metal sites. Energy and Environmental Science, 2012, 5, 8134.	30.8	226
13	Mimicking the Key Functions of Photosystem II in Artificial Photosynthesis for Photoelectrocatalytic Water Splitting. Journal of the American Chemical Society, 2018, 140, 3250-3256.	13.7	224
14	Incorporating Graphitic Carbon Nitride (gâ€C₃N₄) Quantum Dots into Bulkâ€Heterojunction Polymer Solar Cells Leads to Efficiency Enhancement. Advanced Functional Materials, 2016, 26, 1719-1728.	14.9	221
15	Synthesis and Enhanced Electrochemical Catalytic Performance of Monolayer WS_{2(1â€“x)}Se_{2x} with a Tunable Band Gap. Advanced Materials, 2015, 27, 4732-4738.	21.0	214
16	A cocatalyst-free CdS nanorod/ZnS nanoparticle composite for high-performance visible-light-driven hydrogen production from water. Journal of Materials Chemistry A, 2016, 4, 675-683.	10.3	214
17	MoP is a novel, noble-metal-free cocatalyst for enhanced photocatalytic hydrogen production from water under visible light. Journal of Materials Chemistry A, 2015, 3, 16941-16947.	10.3	211
18	Electrochemical, spectroscopic and theoretical studies of a simple bifunctional cobalt corrole catalyst for oxygen evolution and hydrogen production. Physical Chemistry Chemical Physics, 2014, 16, 1883-1893.	2.8	188

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19	High catalytic activity for water oxidation based on nanostructured nickel phosphide precursors. Chemical Communications, 2015, 51, 11626-11629.	4.1	182
20	Photogeneration of Hydrogen from Water Using an Integrated System Based on TiO2and Platinum(II) Diimine Dithiolate Sensitizers. Journal of the American Chemical Society, 2007, 129, 7726-7727.	13.7	176
21	Copper phosphide modified cadmium sulfide nanorods as a novel pâ€“n heterojunction for highly efficient visible-light-driven hydrogen production in water. Journal of Materials Chemistry A, 2015, 3, 10243-10247.	10.3	175
22	MoS₂ nanosheet/TiO₂ nanowire hybrid nanostructures for enhanced visible-light photocatalytic activities. Chemical Communications, 2014, 50, 15447-15449.	4.1	173
23	A Highly Selective Turn-On Colorimetric, Red Fluorescent Sensor for Detecting Mobile Zinc in Living Cells. Inorganic Chemistry, 2010, 49, 10753-10755.	4.0	172
24	Cobalt complexes as artificial hydrogenases for the reductive side of water splitting. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 958-973.	1.0	171
25	Stabilizing black phosphorus nanosheets via edge-selective bonding of sacrificial C60 molecules. Nature Communications, 2018, 9, 4177.	12.8	171
26	Bi- and Terpyridyl Platinum(II) Chloro Complexes: Molecular Catalysts for the Photogeneration of Hydrogen from Water or Simply Precursors for Colloidal Platinum?. Journal of the American Chemical Society, 2008, 130, 5056-5058.	13.7	170
27	Microwave-assisted heating synthesis: a general and rapid strategy for large-scale production of highly crystalline g-C₃N₄ with enhanced photocatalytic H₂ production. Green Chemistry, 2014, 16, 4663-4668.	9.0	166
28	Highly Efficient and Stable Waterâ€Oxidation Electrocatalysis with a Very Low Overpotential using FeNiP Substitutionalâ€Solidâ€Solution Nanoplate Arrays. Advanced Materials, 2017, 29, 1704075.	21.0	163
29	Nanostructured copper oxide electrodeposited from copper(II) complexes as an active catalyst for electrocatalytic oxygen evolution reaction. Electrochemistry Communications, 2014, 46, 1-4.	4.7	154
30	Earth-Abundant Copper-Based Bifunctional Electrocatalyst for Both Catalytic Hydrogen Production and Water Oxidation. ACS Catalysis, 2015, 5, 1530-1538.	11.2	150
31	Self-Supported Copper Oxide Electrocatalyst for Water Oxidation at Low Overpotential and Confirmation of Its Robustness by Cu K-Edge X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 831-840.	3.1	146
32	Noble-Metal-Free Ni(OH)₂-Modified CdS/Reduced Graphene Oxide Nanocomposite with Enhanced Photocatalytic Activity for Hydrogen Production under Visible Light Irradiation. Journal of Physical Chemistry C, 2014, 118, 22896-22903.	3.1	140
33	Elucidating the Domain Structure of the Cobalt Oxide Water Splitting Catalyst by X-ray Pair Distribution Function Analysis. Journal of the American Chemical Society, 2012, 134, 11096-11099.	13.7	139
34	A robust hydrogen evolution catalyst based on crystalline nickel phosphide nanoflakes on three-dimensional graphene/nickel foam: high performance for electrocatalytic hydrogen production from pH 0â€“14. Journal of Materials Chemistry A, 2015, 3, 1941-1946.	10.3	138
35	Cadmium sulfide/graphitic carbon nitride heterostructure nanowire loading with a nickel hydroxide cocatalyst for highly efficient photocatalytic hydrogen production in water under visible light. Nanoscale, 2016, 8, 4748-4756.	5.6	127
36	Azide Passivation of Black Phosphorus Nanosheets: Covalent Functionalization Affords Ambient Stability Enhancement. Angewandte Chemie - International Edition, 2019, 58, 1479-1483.	13.8	123

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37	Ternary metal phosphide nanosheets as a highly efficient electrocatalyst for water reduction to hydrogen over a wide pH range from 0 to 14. Journal of Materials Chemistry A, 2016, 4, 10195-10202.	10.3	117
38	Enhanced photocatalytic H₂ production on cadmium sulfide photocatalysts using nickel nitride as a novel cocatalyst. Journal of Materials Chemistry A, 2016, 4, 13289-13295.	10.3	116
39	Photoinduced Electron Transfer in Platinum(II) Terpyridyl Acetylide Chromophores:Â Reductive and Oxidative Quenching and Hydrogen Productionâ€. Journal of Physical Chemistry B, 2007, 111, 6887-6894.	2.6	112
40	Synthesis and Structural Characterization of a New Vapochromic Pt(II) Complex Based on the 1-Terpyridyl-2,3,4,5,6-pentaphenylbenzene (TPPPB) Ligand. Inorganic Chemistry, 2008, 47, 69-77.	4.0	112
41	Nickel-Based Thin Film on Multiwalled Carbon Nanotubes as an Efficient Bifunctional Electrocatalyst for Water Splitting. ACS Applied Materials & Interfaces, 2014, 6, 15395-15402.	8.0	112
42	Direct growth of porous crystalline NiCo₂O₄ nanowire arrays on a conductive electrode for high-performance electrocatalytic water oxidation. Journal of Materials Chemistry A, 2014, 2, 20823-20831.	10.3	111
43	Copper oxide nanomaterials synthesized from simple copper salts as active catalysts for electrocatalytic water oxidation. Electrochimica Acta, 2015, 160, 202-208.	5.2	110
44	Covalent Cobalt Porphyrin Framework on Multiwalled Carbon Nanotubes for Efficient Water Oxidation at Low Overpotential. Chemistry of Materials, 2015, 27, 4586-4593.	6.7	108
45	Coreâ€“shell amorphous cobalt phosphide/cadmium sulfide semiconductor nanorods for exceptional photocatalytic hydrogen production under visible light. Journal of Materials Chemistry A, 2016, 4, 1598-1602.	10.3	108
46	Photoconductive Curvedâ€Nanographene/Fullerene Supramolecular Heterojunctions. Angewandte Chemie - International Edition, 2019, 58, 6244-6249.	13.8	99
47	A Large Ï€â€Extended Carbon Nanoring Based on Nanographene Units: Bottomâ€Up Synthesis, Photophysical Properties, and Selective Complexation with Fullerene C₇₀. Angewandte Chemie - International Edition, 2017, 56, 158-162.	13.8	95
48	Highly efficient simultaneous hydrogen evolution and benzaldehyde production using cadmium sulfide nanorods decorated with small cobalt nanoparticles under visible light. Journal of Catalysis, 2018, 357, 147-153.	6.2	93
49	Optical Properties of Metalâ€“Molybdenum Disulfide Hybrid Nanosheets and Their Application for Enhanced Photocatalytic Hydrogen Evolution. ACS Nano, 2014, 8, 6979-6985.	14.6	92
50	A facile mechanochemical route to a covalently bonded graphitic carbon nitride (g-C₃N₄) and fullerene hybrid toward enhanced visible light photocatalytic hydrogen production. Nanoscale, 2017, 9, 5615-5623.	5.6	89
51	Selective Synthesis of Conjugated Chiral Macrocycles: Sidewall Segments of (â^')/(+)â€(12,4) Carbon Nanotubes with Strong Circularly Polarized Luminescence. Angewandte Chemie - International Edition, 2020, 59, 1619-1626.	13.8	85
52	Energy upconversion sensitized by a platinum(ii) terpyridyl acetylide complex. Chemical Science, 2010, 1, 502.	7.4	84
53	Cyclometalated 6-Phenyl-2,2â€²-bipyridyl (CNN) Platinum(II) Acetylide Complexes: Structure, Electrochemistry, Photophysics, and Oxidative- and Reductive-Quenching Studies. Inorganic Chemistry, 2009, 48, 4306-4316.	4.0	83
54	Protein Delivery of a Ni Catalyst to Photosystem I for Light-Driven Hydrogen Production. Journal of the American Chemical Society, 2013, 135, 13246-13249.	13.7	83

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55	Molecular cobaltâ€“salen complexes as novel cocatalysts for highly efficient photocatalytic hydrogen production over a CdS nanorod photosensitizer under visible light. Journal of Materials Chemistry A, 2015, 3, 15729-15737.	10.3	83
56	Enhanced photocatalytic hydrogen production in water under visible light using noble metal-free ferrous phosphide as an active cocatalyst. Catalysis Science and Technology, 2015, 5, 4964-4967.	4.1	83
57	A Copper Porphyrinâ€Based Conjugated Mesoporous Polymerâ€Derived Bifunctional Electrocatalyst for Hydrogen and Oxygen Evolution. ChemSusChem, 2016, 9, 2365-2373.	6.8	80
58	Enhanced visible light-driven hydrogen production from water by a noble-metal-free system containing organic dye-sensitized titanium dioxide loaded with nickel hydroxide as the cocatalyst. Applied Catalysis B: Environmental, 2014, 160-161, 173-178.	20.2	76
59	Platinum(II) Terpyridyl Acetylide Complexes on Platinized TiO2: Toward the Photogeneration of H2 in Aqueous Media. Inorganic Chemistry, 2009, 48, 9653-9663.	4.0	75
60	Reversible Mechanochromic Luminescence at Room Temperature in Cationic Platinum(II) Terpyridyl Complexes. Inorganic Chemistry, 2014, 53, 3338-3344.	4.0	75
61	A Threeâ€Dimensional Capsuleâ€like Carbon Nanocage as a Segment Model of Capped Zigzag [12,0] Carbon Nanotubes: Synthesis, Characterization, and Complexation with C₇₀. Angewandte Chemie - International Edition, 2018, 57, 9330-9335.	13.8	75
62	In situ generated highly active copper oxide catalysts for the oxygen evolution reaction at low overpotential in alkaline solutions. Chemical Communications, 2016, 52, 5546-5549.	4.1	74
63	The Supramolecular Chemistry of Cycloparaphenylenes and Their Analogs. Frontiers in Chemistry, 2019, 7, 668.	3.6	72
64	Robust and highly active copper-based electrocatalyst for hydrogen production at low overpotential in neutral water. Chemical Communications, 2015, 51, 12954-12957.	4.1	71
65	Defect engineering of mesoporous nickel ferrite and its application for highly enhanced water oxidation catalysis. Journal of Catalysis, 2018, 358, 1-7.	6.2	68
66	Noble metal-free cobalt oxide (CoO) nanoparticles loaded on titanium dioxide/cadmium sulfide composite for enhanced photocatalytic hydrogen production from water. International Journal of Hydrogen Energy, 2014, 39, 13353-13360.	7.1	66
67	Noble Metal-Free Copper Hydroxide as an Active and Robust Electrocatalyst for Water Oxidation at Weakly Basic pH. ACS Sustainable Chemistry and Engineering, 2016, 4, 2593-2600.	6.7	66
68	An artificial photosynthetic system containing an inorganic semiconductor and a molecular catalyst for photocatalytic water oxidation. Journal of Catalysis, 2016, 338, 168-173.	6.2	66
69	Cobalt nitride as an efficient cocatalyst on CdS nanorods for enhanced photocatalytic hydrogen production in water. Catalysis Science and Technology, 2017, 7, 1515-1522.	4.1	63
70	Pyrolyzed cobalt porphyrin-based conjugated mesoporous polymers as bifunctional catalysts for hydrogen production and oxygen evolution in water. Chemical Communications, 2016, 52, 13483-13486.	4.1	61
71	Integrating noble-metal-free NiS cocatalyst with a semiconductor heterojunction composite for efficient photocatalytic H2 production in water under visible light. Chinese Journal of Catalysis, 2017, 38, 2102-2109.	14.0	61
72	Cobaltâ€“Salen Complexes as Catalyst Precursors for Electrocatalytic Water Oxidation at Low Overpotential. Journal of Physical Chemistry C, 2015, 119, 8998-9004.	3.1	60

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73	Highly efficient and selective photocatalytic dehydrogenation of benzyl alcohol for simultaneous hydrogen and benzaldehyde production over Ni-decorated Zn0.5Cd0.5S solid solution. Journal of Energy Chemistry, 2019, 30, 71-77.	12.9	60
74	Hydrogen Production on a Hybrid Photocatalytic System Composed of Ultrathin CdS Nanosheets and a Molecular Nickel Complex. Chemistry - A European Journal, 2015, 21, 4571-4575.	3.3	59
75	A cycloparaphenylene nanoring with graphenic hexabenzocoronene sidewalls. Chemical Communications, 2016, 52, 7164-7167.	4.1	59
76	Cobalt porphyrin electrode films for electrocatalytic water oxidation. Physical Chemistry Chemical Physics, 2014, 16, 11224-11232.	2.8	58
77	Integrating non-precious-metal cocatalyst Ni3N with g-C3N4 for enhanced photocatalytic H2 production in water under visible-light irradiation. Chinese Journal of Catalysis, 2019, 40, 160-167.	14.0	57
78	Large Ï€-Extended and Curved Carbon Nanorings as Carbon Nanotube Segments. Accounts of Chemical Research, 2021, 54, 4178-4190.	15.6	54
79	A Large Ï€â€Extended Carbon Nanoring Based on Nanographene Units: Bottomâ€Up Synthesis, Photophysical Properties, and Selective Complexation with Fullerene C 70. Angewandte Chemie, 2017, 129, 164-168.	2.0	52
80	Green Cobalt Oxide (CoO_x) Film with Nanoribbon Structures Electrodeposited from the BF₂-Annulated Cobaloxime Precursor for Efficient Water Oxidation. ACS Applied Materials & Interfaces, 2014, 6, 10929-10934.	8.0	47
81	Pyrolyzed cobalt porphyrin-modified carbon nanomaterial as an active catalyst for electrocatalytic water oxidation. International Journal of Hydrogen Energy, 2015, 40, 6538-6545.	7.1	45
82	An unexpected dual-emissive luminogen with tunable aggregation-induced emission and enhanced chiroptical property. Nature Communications, 2022, 13, .	12.8	45
83	First Example of the Solid-State Thermal Cyclometalation of Ligated Benzophenone Imine Giving Novel Luminescent Platinum(II) Species. Inorganic Chemistry, 2007, 46, 4469-4482.	4.0	44
84	Copper oxide nanosheets prepared by molten salt method for efficient electrocatalytic oxygen evolution reaction with low catalyst loading. Electrochimica Acta, 2018, 263, 318-327.	5.2	44
85	Self-supported Ni2P nanosheets on low-cost three-dimensional Fe foam as a novel electrocatalyst for efficient water oxidation. Journal of Energy Chemistry, 2020, 42, 71-76.	12.9	44
86	Synthesis, Electrochemistry, Photophysics, and Solvatochromism in New Cyclometalated 6-Phenyl-4-(p-R-phenyl)-2,2â€²-bipyridyl (R = Me, COOMe, P(O)(OEt)2) (Cˆ§Nˆ§N) Platinum(II) Thiophenolate Chromophores. Inorganic Chemistry, 2009, 48, 1498-1506.	4.0	42
87	Homogeneous Molecular Iron Catalysts for Direct Photocatalytic Conversion of Formic Acid to Syngas (CO+H₂). Angewandte Chemie - International Edition, 2020, 59, 14818-14824.	13.8	42
88	A Highly Strained Allâ€Phenylene Conjoined Bismacrocycle. Angewandte Chemie - International Edition, 2021, 60, 17368-17372.	13.8	42
89	Facile deposition of nanostructured cobalt oxide catalysts from molecular cobaloximes for efficient water oxidation. Physical Chemistry Chemical Physics, 2013, 15, 12534.	2.8	41
90	A Long Ï€-Conjugated Poly(para-Phenylene)-Based Polymeric Segment of Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2019, 141, 18938-18943.	13.7	41

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91	Nitrogen photofixation on holey g-C3N4 nanosheets with carbon vacancies under visible-light irradiation. Chinese Chemical Letters, 2020, 31, 792-796.	9.0	40
92	Cadmium Sulfide Nanorods Decorated with Copper Sulfide via Oneâ€Step Cation Exchange Approach for Enhanced Photocatalytic Hydrogen Evolution under Visible Light. ChemCatChem, 2016, 8, 157-162.	3.7	39
93	An iron porphyrin-based conjugated network wrapped around carbon nanotubes as a noble-metal-free electrocatalyst for efficient oxygen reduction reaction. Inorganic Chemistry Frontiers, 2016, 3, 821-827.	6.0	39
94	A highly efficient photoelectrochemical cell using cobalt phosphide-modified nanoporous hematite photoanode for solar-driven water splitting. Journal of Catalysis, 2018, 366, 275-281.	6.2	38
95	A Threeâ€Dimensional Capsuleâ€like Carbon Nanocage as a Segment Model of Capped Zigzag [12,0] Carbon Nanotubes: Synthesis, Characterization, and Complexation with C₇₀. Angewandte Chemie, 2018, 130, 9474-9479.	2.0	38
96	Selective Synthesis of Conjugated Chiral Macrocycles: Sidewall Segments of (â^')/(+)â€(12,4) Carbon Nanotubes with Strong Circularly Polarized Luminescence. Angewandte Chemie, 2020, 132, 1636-1643.	2.0	38
97	Cobalt Phosphide Nanowire Arrays on Conductive Substrate as an Efficient Bifunctional Catalyst for Overall Water Splitting. ACS Sustainable Chemistry and Engineering, 2019, 7, 2360-2369.	6.7	37
98	Trinuclear zinc complexes for biologically relevant Î¼3-oxoanion binding and carbon dioxide fixation. Nature Communications, 2013, 4, 2375.	12.8	36
99	Facile three-step synthesis and photophysical properties of [8]-, [9]-, and [12]cyclo-1,4-naphthalene nanorings via platinum-mediated reductive elimination. Chemical Communications, 2018, 54, 988-991.	4.1	36
100	Structureâ€“function analyses of solar fuelscatalysts using in situ X-ray scattering. Chemical Society Reviews, 2013, 42, 2215-2227.	38.1	35
101	Structural, spectroscopic and theoretical studies of a vapochromic platinum(<scp>ii</scp>) terpyridyl complex. CrystEngComm, 2014, 16, 5531-5542.	2.6	35
102	Incorporating a molecular co-catalyst with a heterogeneous semiconductor heterojunction photocatalyst: Novel mechanism with two electron-transfer pathways for enhanced solar hydrogen production. Journal of Catalysis, 2017, 353, 274-285.	6.2	35
103	CdS Nanorods Anchored with Crystalline FeP Nanoparticles for Efficient Photocatalytic Formic Acid Dehydrogenation. ACS Applied Materials & Interfaces, 2021, 13, 23751-23759.	8.0	35
104	Multi-walled carbon nanotubes supported porous nickel oxide as noble metal-free electrocatalysts for efficient water oxidation. International Journal of Hydrogen Energy, 2014, 39, 10467-10475.	7.1	32
105	Synergistic Effect of a Molecular Cocatalyst and a Heterojunction in a 1â€‰D Semiconductor Photocatalyst for Robust and Highly Efficient Solar Hydrogen Production. ChemSusChem, 2016, 9, 3084-3092.	6.8	32
106	Boosting Antitumor Sonodynamic Therapy Efficacy of Black Phosphorus via Covalent Functionalization. Advanced Science, 2021, 8, e2102422.	11.2	32
107	Photoconductive Curvedâ€Nanographene/Fullerene Supramolecular Heterojunctions. Angewandte Chemie, 2019, 131, 6310-6315.	2.0	30
108	A highly selective vapochromic methanol sensor based on one step synthesis of a simple platinum terpyridine complex. Inorganica Chimica Acta, 2010, 363, 1355-1358.	2.4	29

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109	Enhanced photocatalytic H₂ production on CdS nanorods with simple molecular bidentate cobalt complexes as cocatalysts under visible light. Dalton Transactions, 2016, 45, 12897-12905.	3.3	29
110	Precise synthesis and photophysical properties of a small chiral carbon nanotube segment: cyclo[7]paraphenylene-2,6-naphthylene. Chemical Communications, 2019, 55, 9456-9459.	4.1	28
111	Hybridizing MoS2 and C60 via a van der Waals heterostructure toward synergistically enhanced visible light photocatalytic hydrogen production activity. International Journal of Hydrogen Energy, 2018, 43, 8698-8706.	7.1	27
112	Reaction selectivity of homochiral versus heterochiral intermolecular reactions of prochiral terminal alkynes on surfaces. Nature Communications, 2019, 10, 4122.	12.8	27
113	A supramolecular polymeric heterojunction composed of an all-carbon conjugated polymer and fullerenes. Chemical Science, 2021, 12, 10506-10513.	7.4	27
114	Efficient suppression of surface charge recombination by CoP-Modified nanoporous BiVO4 for photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2021, 46, 15517-15525.	7.1	27
115	A novel symmetrically multifunctionalized dodecamethoxy-cycloparaphenylene: synthesis, photophysical, and supramolecular properties. Organic Chemistry Frontiers, 2018, 5, 1446-1451.	4.5	26
116	Cuprous oxide thin film directly electrodeposited from a simple copper salt on conductive electrode for efficient oxygen evolution reaction. Electrochimica Acta, 2016, 187, 381-388.	5.2	23
117	Metal-free graphene quantum dots photosensitizer coupled with nickel phosphide cocatalyst for enhanced photocatalytic hydrogen production in water under visible light. Chinese Journal of Catalysis, 2018, 39, 1753-1761.	14.0	23
118	Synthesis of Giant Ï€â€Extended Molecular Macrocyclic Rings as Finite Models of Carbon Nanotubes Displaying Enriched Sizeâ€Dependent Physical Properties. Chemistry - A European Journal, 2020, 26, 2159-2163.	3.3	23
119	Enhancing the photodynamic therapy efficacy of black phosphorus nanosheets by covalently grafting fullerene C₆₀. Chemical Science, 2020, 11, 11435-11442.	7.4	21
120	Heptanuclear Co, Ni and mixed Co-Ni clusters as high-performance water oxidation electrocatalysts. Electrochimica Acta, 2017, 249, 343-352.	5.2	20
121	Synthesis of a magnetic Ï€-extended carbon nanosolenoid with Riemann surfaces. Nature Communications, 2022, 13, 1239.	12.8	20
122	Direct analysis of titanium dioxide solid powder by fluorination assisted electrothermal vaporization inductively coupled plasma atomic emission spectrometry. Analytica Chimica Acta, 2000, 421, 75-81.	5.4	19
123	Improving the water splitting performance of nickel electrodes by optimizing their pore structure using a phase inversion method. Catalysis Science and Technology, 2017, 7, 3056-3064.	4.1	18
124	Multifunctionalized octamethoxy-[8]cycloparaphenylene: facile synthesis and analysis of novel photophysical and photoinduced electron transfer properties. Organic Chemistry Frontiers, 2019, 6, 1885-1890.	4.5	18
125	NiCoP nanoparticles anchored on CdS nanorods for enhanced hydrogen production by visible light-driven formic acid dehydrogenation. International Journal of Hydrogen Energy, 2021, 46, 32435-32444.	7.1	18
126	Tuning the (Chir)Optical Properties and Squeezing out the Inherent Chirality in Polyphenyleneâ€Locked Helical Carbon Nanorings. Chemistry - A European Journal, 2022, 28, .	3.3	18

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127	Oxyanion induced variations in domain structure for amorphous cobalt oxide oxygen evolving catalysts, resolved by X-ray pair distribution function analysis. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 713-721.	1.1	17
128	A molecular cobaloxime cocatalyst and ultrathin FeOOH nanolayers co-modified BiVO4 photoanode for efficient photoelectrochemical water oxidation. Journal of Energy Chemistry, 2022, 69, 497-505.	12.9	17
129	Microwave-assisted synthesis of hematite/activated graphene composites with superior performance for photocatalytic reduction of Cr(<scp>vi</scp>). RSC Advances, 2015, 5, 81438-81444.	3.6	16
130	Embedding Noble-Metal-Free Ni2P Cocatalyst on g-C3N4 for Enhanced Photocatalytic H2 Evolution in Water Under Visible Light. Catalysis Letters, 2018, 148, 3741-3749.	2.6	16
131	Synthesis and properties of a nanographene-embedded conjugated macrocyclic nanoring via the Scholl reaction. Chemical Communications, 2021, 57, 9104-9107.	4.1	16
132	Synthesis, Photophysical and Supramolecular Properties of a Ï€-Conjugated Molecular Crown Containing a Pentagonal Unit: A Model Compound for Fullerene C240. Synthesis, 2020, 52, 2535-2540.	2.3	15
133	Topology Selectivity in On-Surface Dehydrogenative Coupling Reaction: Dendritic Structure versus Porous Graphene Nanoribbon. ACS Nano, 2021, 15, 4617-4626.	14.6	15
134	Pomegranate-like C60@cobalt/nitrogen-codoped porous carbon for high-performance oxygen reduction reaction and lithium-sulfur battery. Nano Research, 2021, 14, 2596-2605.	10.4	15
135	Construction of a short metallofullerene-peapod with a spin probe. Chemical Communications, 2019, 55, 11511-11514.	4.1	14
136	Through-space Ï€-delocalization in a conjugated macrocycle consisting of [2.2]paracyclophane. Chemical Communications, 2019, 55, 14617-14620.	4.1	14
137	Atomic Scale Analysis of the Enhanced Electro- and Photo-Catalytic Activity in High-Index Faceted Porous NiO Nanowires. Scientific Reports, 2015, 5, 8557.	3.3	12
138	From Planar Macrocycle to Cylindrical Molecule: Synthesis and Properties of a Phenanthrene-Based Coronal Nanohoop as a Segment of [6,6]Carbon Nanotube. Organic Letters, 2019, 21, 5917-5921.	4.6	12
139	Kinetic Control over Morphology of Nanoporous Graphene on Surface. ChemPhysChem, 2019, 20, 2327-2332.	2.1	12
140	Linear Bimetallic Alkynylplatinum(II) Terpyridyl Complexes Bearing p-Phenylene Ethynylene Oligomers: Synthesis, Characterization, Aggregation, and Photophysical Properties. Organometallics, 2014, 33, 2738-2746.	2.3	11
141	Large Ï€-Extension of Carbon Nanorings by Incorporating Hexa-peri-hexabenzocoronenes. Synlett, 2017, 28, 1671-1677.	1.8	11
142	A Highly Strained Allâ€Phenylene Conjoined Bismacrocycle. Angewandte Chemie, 2021, 133, 17508-17512.	2.0	11
143	Facile deposition of cobalt oxide based electrocatalyst on low-cost and tin-free electrode for water splitting. Journal of Energy Chemistry, 2014, 23, 179-184.	12.9	10
144	On-surface synthesis of planar acenes via regioselective arylâ€“aryl coupling. Chemical Communications, 2020, 56, 4890-4893.	4.1	9

#	Article	IF	Citations
145	Ultrathin MOF Coupling with Molecular Cobaloxime to Construct an Efficient Hybrid Hematite Photoanode for Photocatalytic Water Splitting. Journal of Physical Chemistry C, 2021, 125, 23153-23161.	3.1	9
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147	Selective synthesis and (chir)optical properties of binaphthyl-based chiral carbon macrocycles. Chemical Communications, 2022, 58, 8278-8281.	4.1	9
148	Polymer Solar Cells: Incorporating Graphitic Carbon Nitride (g-C3N4) Quantum Dots into Bulk-Heterojunction Polymer Solar Cells Leads to Efficiency Enhancement (Adv. Funct. Mater. 11/2016). Advanced Functional Materials, 2016, 26, 1851-1851.	14.9	8
149	Efficient Improved Charge Separation of FeP Decorated Worm-Like Nanoporous BiVO4 Photoanodes for Solar-Driven Water Splitting. Catalysis Letters, 2021, 151, 1231-1238.	2.6	6
150	Synthesis and Photophysical Properties of [3]Cyclo-1,8-pyrenes via [4 + 2] Cycloaddition Reaction. Journal of Organic Chemistry, 2021, 86, 7038-7045.	3.2	6
151	Synthesis of branched tetranuclear alkynylplatinum(II) terpyridine complexes and their photophysical properties. Tetrahedron Letters, 2014, 55, 3486-3490.	1.4	5
152	Precise membrane separation of nanoparticles using a microporous polymer containing radially Ï€-conjugated molecular carbocycles. Chemical Communications, 2021, 57, 11867-11870.	4.1	5
153	Boosting Photoelectrochemical Water Oxidation Performance of Nanoporous BiVO₄ via Dual Cocatalysts Cobaloxime and Ni-OEC Modification. Journal of Physical Chemistry C, 2022, 126, 11042-11050.	3.1	5
154	A Conjugated Molecular Crown Containing a Single Pyrenyl Unit: Synthesis, Characterization, and Photophysical Properties. Chinese Journal of Organic Chemistry, 2021, 41, 2401.	1.3	2
155	Homogeneous Molecular Iron Catalysts for Direct Photocatalytic Conversion of Formic Acid to Syngas (CO+H 2). Angewandte Chemie, 2020, 132, 14928-14934.	2.0	2
156	Solar cells and photocatalytic systems: general discussion. Faraday Discussions, 2014, 176, 313-331.	3.2	1
157	Ozone modification as an efficient strategy for photocatalytic nitrogen fixation under visible light irradiation. Journal of Porous Materials, 2021, 28, 825-834.	2.6	1
158	Synthesis and Physical Properties of a Phenanthrene-Based [6,6] Hollow Bilayer Cylindrical Nanoring. Organic Letters, 2021, 23, 7976-7980.	4.6	0