

Yong Ding

List of Publications by Year in descending order

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102
papers

5,452
citations

71102

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times ranked

4964
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#	ARTICLE	IF	CITATIONS
1	Ultrathin FeOOH Nanolayers with Abundant Oxygen Vacancies on BiVO ₄ Photoanodes for Efficient Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2248-2252.	13.8	558
2	Efficient Light-Driven Carbon-Free Cobalt-Based Molecular Catalyst for Water Oxidation. <i>Journal of the American Chemical Society</i> , 2011, 133, 2068-2071.	13.7	336
3	K7[CoII(Coll)(H ₂ O)W11O ₃₉]: a molecular mixed-valence Keggin polyoxometalate catalyst of high stability and efficiency for visible light-driven water oxidation. <i>Energy and Environmental Science</i> , 2013, 6, 1170.	30.8	285
4	Porous Co ₃ O ₄ /CuO hollow polyhedral nanocages derived from metal-organic frameworks with heterojunctions as efficient photocatalytic water oxidation catalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 198, 447-456.	20.2	153
5	In Situ Grown Pristine Cobalt Sulfide as Bifunctional Photocatalyst for Hydrogen and Oxygen Evolution. <i>Advanced Functional Materials</i> , 2017, 27, 1605846.	14.9	145
6	Rationally Designed/Constructed CoO _x /WO ₃ Anode for Efficient Photoelectrochemical Water Oxidation. <i>ACS Catalysis</i> , 2017, 7, 1841-1845.	11.2	141
7	Study of the Active Sites in Porous Nickel Oxide Nanosheets by Manganese Modulation for Enhanced Oxygen Evolution Catalysis. <i>ACS Energy Letters</i> , 2018, 3, 2150-2158.	17.4	131
8	P vacancies-enriched 3D hierarchical reduced cobalt phosphide as a precursor template for defect engineering for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14939-14948.	10.3	125
9	Carbon quantum dots enriching molecular nickel polyoxometalate over CdS semiconductor for photocatalytic water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 293, 120214.	20.2	112
10	Carbon quantum dots assisted strategy to synthesize Co@NC for boosting photocatalytic hydrogen evolution performance of CdS. <i>Chemical Engineering Journal</i> , 2020, 389, 124432.	12.7	108
11	Mn-doping and NiFe layered double hydroxide coating: Effective approaches to enhancing the performance of Fe ₂ O ₃ in photoelectrochemical water oxidation. <i>Journal of Catalysis</i> , 2016, 340, 261-269.	6.2	107
12	Amorphous Ni ²⁺ /Fe double hydroxide hollow nanocubes enriched with oxygen vacancies as efficient electrocatalytic water oxidation catalysts. <i>Chemical Communications</i> , 2019, 55, 1044-1047.	4.1	102
13	[Fe(C ₅ H ₅ N(CH ₂) ₁₅ CH ₃) ₃ [PW ₄ O ₃₂]/H ₂ O ₂ /ethyl acetate/alkenes: a recyclable and environmentally benign alkenes epoxidation catalytic system. <i>Green Chemistry</i> , 2008, 10, 910.	9.0	94
14	Efficient photocatalytic H ₂ evolution catalyzed by an unprecedented robust molecular semiconductor {Fe ₁₁ } nanocluster without cocatalysts at neutral conditions. <i>Nano Energy</i> , 2015, 16, 247-255.	16.0	94
15	Efficient photocatalytic water oxidation catalyzed by polyoxometalate [Fe ₁₁ (H ₂ O) ₁₄ (OH) ₂ (W ₃ O ₁₀) ₂]-SbW ₁₂ based on abundant metals. <i>Chemical Communications</i> , 2015, 51, 13925-13928.	6.2	92
16	Facet effect of Co ₃ O ₄ nanocrystals on visible-light driven water oxidation. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 74-84.	20.2	88
17	Solvation effect promoted formation of p-n junction between WO ₃ and FeOOH: A high performance photoanode for water oxidation. <i>Journal of Catalysis</i> , 2016, 333, 200-206.	6.2	86
18	A Bioinspired Molecular Polyoxometalate Catalyst with Two Cobalt(II) Oxide Cores for Photocatalytic Water Oxidation. <i>ChemSusChem</i> , 2015, 8, 2630-2634.	6.8	78

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19	Enhancing the macroscopic polarization of CdS for piezo-photocatalytic water splitting. <i>Nano Energy</i> , 2021, 90, 106635.	16.0	77
20	Amorphous CoO coupled carbon dots as a spongy porous bifunctional catalyst for efficient photocatalytic water oxidation and CO ₂ reduction. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1826-1836.	14.0	76
21	A mononuclear cobalt complex with an organic ligand acting as a precatalyst for efficient visible light-driven water oxidation. <i>Chemical Communications</i> , 2014, 50, 2167-2169.	4.1	71
22	Flower-like 3D CuO microsphere acting as photocatalytic water oxidation catalyst. <i>Chinese Journal of Catalysis</i> , 2016, 37, 123-134.	14.0	69
23	Rationally designed/assembled hybrid BiVO ₄ -based photoanode for enhanced photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118136.	20.2	69
24	Boosting photocatalytic water oxidation achieved by BiVO ₄ coupled with iron-containing polyoxometalate: Analysis the true catalyst. <i>Journal of Catalysis</i> , 2018, 363, 109-116.	6.2	67
25	Design and synthesis of Cu modified cobalt oxides with hollow polyhedral nanocages as efficient electrocatalytic and photocatalytic water oxidation catalysts. <i>Journal of Catalysis</i> , 2017, 352, 246-255.	6.2	66
26	A graphene oxide-molecular Cu porphyrin-integrated BiVO ₄ photoanode for improved photoelectrochemical water oxidation performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4062-4072.	10.3	66
27	M _x Co _{3-x} O ₄ (M = Co, Mn, Fe) porous nanocages derived from metal-organic frameworks as efficient water oxidation catalysts. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22300-22310.	10.3	65
28	Polyoxometalate-based manganese clusters as catalysts for efficient photocatalytic and electrochemical water oxidation. <i>Applied Catalysis B: Environmental</i> , 2017, 209, 45-52.	20.2	62
29	Ultrathin CoO _x nanolayers derived from polyoxometalate for enhanced photoelectrochemical performance of hematite photoanodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6294-6303.	10.3	61
30	Efficient visible light-driven water oxidation catalyzed by an all-inorganic copper-containing polyoxometalate. <i>Chemical Communications</i> , 2015, 51, 17443-17446.	4.1	60
31	Hexagonal assembly of Co ₃ V ₂ O ₈ nanoparticles acting as an efficient catalyst for visible light-driven water oxidation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19308-19314.	10.3	58
32	An efficient oxygen evolving catalyst based on a 1/4-O diiron coordination complex. <i>Chemical Communications</i> , 2014, 50, 12779-12782.	4.1	58
33	Ultrathin FeOOH Nanolayers with Abundant Oxygen Vacancies on BiVO ₄ Photoanodes for Efficient Water Oxidation. <i>Angewandte Chemie</i> , 2018, 130, 2270-2274.	2.0	57
34	Recent advances in the field of light-driven water oxidation catalyzed by transition-metal substituted polyoxometalates. <i>Dalton Transactions</i> , 2018, 47, 8180-8188.	3.3	56
35	Visible-light driven ZnIn ₂ S ₄ /TiO _{2-x} heterostructure for boosting photocatalytic H ₂ evolution. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 6262-6271.	7.1	53
36	Mild and recyclable catalytic oxidation of pyridines to N-oxides with H ₂ O ₂ in water mediated by a vanadium-substituted polyoxometalate. <i>Green Chemistry</i> , 2011, 13, 1486.	9.0	52

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37	Homogeneous electrocatalytic water oxidation at neutral pH by a robust trinuclear copper(II)-substituted polyoxometalate. <i>Chemical Communications</i> , 2018, 54, 354-357.	4.1	52
38	Homogeneous and heterogeneous photocatalytic water oxidation by polyoxometalates containing the most earth-abundant transition metal, iron. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 1091-1100.	20.2	47
39	Light-Driven CO ₂ Reduction over Prussian Blue Analogues as Heterogeneous Catalysts. <i>ACS Catalysis</i> , 2022, 12, 89-100.	11.2	47
40	Enhanced photoelectrochemical water oxidation activity of BiVO ₄ by coating of Co-phenolic networks as hole-transfer and co-catalyst. <i>Journal of Catalysis</i> , 2019, 377, 684-691.	6.2	43
41	[² -SiNi ₂ W ₁₀ O ₃₆ (OH) ₂ (H ₂ O)] ²⁴⁻ : a new robust visible light-driven water oxidation catalyst based on nickel-containing polyoxometalate. <i>Chemical Communications</i> , 2016, 52, 14494-14497.	4.1	42
42	Immobilization of Metal-Organic Framework MIL-100(Fe) on the Surface of BiVO ₄ : A New Platform for Enhanced Visible-Light-Driven Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10410-10419.	8.0	42
43	Si-doped graphene nanosheets for NO _x gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 328, 129005.	7.8	42
44	Efficient light-driven water oxidation catalyzed by a mononuclear cobalt(III) complex. <i>Chemical Communications</i> , 2015, 51, 17309-17312.	4.1	41
45	Efficient hydrogen production from MIL-53(Fe) catalyst-modified Mo:BiVO ₄ photoelectrodes. <i>Catalysis Science and Technology</i> , 2017, 7, 4971-4976.	4.1	41
46	The mechanism change by switching the reactants from water to hydroxyl ions for electrocatalytic water oxidation: a case study of copper oxide microspheres. <i>Dalton Transactions</i> , 2017, 46, 7327-7331.	3.3	40
47	Synthesis of a 6-nm-Long Transition-Metal-Rare-Earth-Containing Polyoxometalate. <i>Inorganic Chemistry</i> , 2019, 58, 12534-12537.	4.0	38
48	Co Nanoparticles Decorated with Nitrogen Doped Carbon Nanotubes for Boosting Photocatalytic Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1753-1759.	6.7	38
49	An octanuclear Cu(II) cluster with a bio-inspired Cu ₄ O ₄ cubic fragment for efficient photocatalytic water oxidation. <i>Chemical Communications</i> , 2018, 54, 12515-12518.	4.1	36
50	Water oxidation catalytic ability of polypyridine complex containing a ¹ / ₄ -OH, ¹ / ₄ -O ₂ dicobalt(III) core. <i>Chinese Journal of Catalysis</i> , 2018, 39, 463-471.	14.0	35
51	Hydroxylation of phenol catalyzed by copper Keggin-type heteropoly compounds with hydrogen peroxide. <i>New Journal of Chemistry</i> , 2002, 26, 376-377.	2.8	34
52	Visible-Light-Induced Water Oxidation Mediated by a Mononuclear Cobalt(II)-Substituted Silicotungstate. <i>Chemistry - an Asian Journal</i> , 2014, 9, 3228-3237.	3.3	33
53	MnO ₂ spontaneously coated on carbon nanotubes for enhanced water oxidation. <i>Chemical Communications</i> , 2014, 50, 11938-11941.	4.1	31
54	Structural evolution of imine-linked covalent organic frameworks and their NH ₃ sensing performance. <i>Journal of Materials Chemistry C</i> , 2021, 9, 8562-8569.	5.5	31

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55	Crystal facet engineering of BiVO ₄ /CQDs/TPP with improved charge transfer efficiency for photocatalytic water oxidation. Chemical Engineering Journal, 2022, 430, 132872.	12.7	30
56	Integrating Mo ₂ Bx (x=1, 4) with CdS for efficient photocatalytic hydrogen production. Chemical Engineering Journal, 2021, 410, 128339.	12.7	29
57	Efficient Photochemical, Thermal, and Electrochemical Water Oxidation Catalyzed by a Porous Iron-Based Oxide Derived Metal-Organic Framework. Journal of Physical Chemistry C, 2016, 120, 517-526.	3.1	29
58	Recent Progress in Visible Light Driven Water Oxidation Using Semiconductors Coupled with Molecular Catalysts. ChemCatChem, 2019, 11, 6190-6202.	3.7	28
59	Insight into a hexanuclear cobalt complex: Strategy to construct efficient catalysts for visible light-driven water oxidation. Applied Catalysis B: Environmental, 2019, 241, 351-358.	20.2	28
60	Efficient Co@CoO core-shell nanocrystals as catalysts for visible-light-driven water oxidation. Applied Catalysis B: Environmental, 2017, 210, 67-76.	20.2	27
61	Enhanced Photoelectrochemical Performance of WO ₃ -Based Composite Photoanode Coupled with Carbon Quantum Dots and NiFe Layered Double Hydroxide. ChemSusChem, 2019, 12, 4685-4692.	6.8	27
62	A novel dicobalt-substituted tungstoantimonate polyoxometalate: Synthesis, characterization, and photocatalytic water oxidation properties. Chinese Journal of Catalysis, 2019, 40, 953-958.	14.0	25
63	Cubic Co-Co prussian blue MOF-based transition metal phosphide as an efficient catalyst for visible light-driven water oxidation. Journal of Catalysis, 2020, 382, 13-21.	6.2	25
64	A homogeneous Cu-based polyoxometalate coupled with mesoporous TiO ₂ for efficient photocatalytic H ₂ production. Journal of Colloid and Interface Science, 2021, 587, 613-621.	9.4	24
65	A stable iron-containing polyoxometalate coupled with semiconductor for efficient photocatalytic water oxidation under acidic condition. Chemical Communications, 2019, 55, 11778-11781.	4.1	23
66	Iron-cobalt bimetal oxide nanorods as efficient and robust water oxidation catalysts. Dalton Transactions, 2017, 46, 10602-10610.	3.3	22
67	Covalent immobilization of molecular complexes on metal-organic frameworks towards robust and highly efficient heterogeneous water oxidation catalysts. Applied Catalysis B: Environmental, 2021, 291, 120070.	20.2	22
68	Metal-Organic Cages with {SiW ₉ Ni ₄ } Polyoxotungstate Nodes. Angewandte Chemie - International Edition, 2022, 61, .	13.8	22
69	A new halide-free efficient reaction-controlled phase-transfer catalyst based on silicotungstate of [(C ₁₈ H ₃₇) ₂ (CH ₃) ₂ N] ₃ [SiO ₄ H(WO ₅) ₂₁] for olefin epoxidation, oxidation of sulfides and alcohols with hydrogen peroxide. RSC Advances, 2014, 4, 32054-32062.	3.6	21
70	Ferromagnetic nanocrystallines containing copper as an efficient catalyst for photoinduced water oxidation. Physical Chemistry Chemical Physics, 2015, 17, 10648-10655.	2.8	20
71	FeO _x Derived from an Iron-Containing Polyoxometalate Boosting the Photocatalytic Water Oxidation Activity of Ti ³⁺ -Doped TiO ₂ . ACS Applied Materials & Interfaces, 2019, 11, 23135-23143.	8.0	20
72	Covalent triazine-based frameworks for NH ₃ gas sensing at room temperature. Sensors and Actuators B: Chemical, 2020, 321, 128513.	7.8	20

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73	Identification of homogeneous [Co ₄ (H ₂ O) ₄ (HPMIDA) ₂ (PMIDA) ₂] ⁶⁺ as an effective molecular-light-driven water oxidation catalyst. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 397-403.	20.2	19
74	Rationally designed/constructed MnOx/WO ₃ anode for photoelectrochemical water oxidation. <i>Chinese Chemical Letters</i> , 2018, 29, 811-814.	9.0	19
75	Enhanced photocatalytic activity of BiVO ₄ coupled with iron-based complexes for water oxidation under visible light irradiation. <i>Chemical Communications</i> , 2019, 55, 2529-2532.	4.1	18
76	Visible-light-driven hydrogen evolution using a polyoxometalate-based copper molecular catalyst. <i>Dalton Transactions</i> , 2020, 49, 3457-3462.	3.3	18
77	Coupling NiCo catalysts with carbon quantum dots on hematite photoanodes for highly efficient oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2813-2818.	10.3	17
78	Morphology-Controlled Self-Assembly and Nanostructured NiO: An Efficient and Robust Photocatalytic Water Oxidation Catalyst. <i>ChemCatChem</i> , 2015, 7, 2370-2376.	3.7	16
79	Catalysts Based on Earth-Abundant Metals for Visible Light-Driven Water Oxidation Reaction. <i>Chemical Record</i> , 2018, 18, 1531-1547.	5.8	16
80	The oxidation of pyridines catalyzed by surfactant-encapsulated polyoxometalate [(C ₁₈ H ₃₇) ₂ (CH ₃) ₂ N] ₈ [HBW ₁₁ O ₃₉] with the temperature-responsive property of solubility. <i>New Journal of Chemistry</i> , 2013, 37, 2614.	2.8	15
81	Some New Features on Synthesis of Titanium Silicalite-1 in a Non-TPAOH Inorganic Reactant Synthetic System. <i>Journal of Porous Materials</i> , 2005, 12, 131-141.	2.6	14
82	Efficient visible light-driven water oxidation catalysts based on B ^{IV} -{BiW ₈ O ₃₀ } and unique 14-nuclear hetero-metal sandwich unit. <i>Chemical Communications</i> , 2018, 54, 674-677.	4.1	13
83	Electrochemical Trimming of Graphene Oxide Affords Graphene Quantum Dots for Fe ³⁺ Detection. <i>ACS Applied Nano Materials</i> , 2021, 4, 5220-5229.	5.0	13
84	Progress in Polyoxometalates-Catalyzed Water Oxidation. <i>Acta Chimica Sinica</i> , 2014, 72, 133.	1.4	13
85	[(C ₁₈ H ₃₇) ₂ (CH ₃) ₂ N] ₇ [PW ₁₁ O ₃₉]: a temperature-controlled phase transfer catalyst for olefin epoxidation. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2011, 102, 93-102.	1.7	12
86	An effective and recyclable catalytic system for alcohol oxidation in water based on a temperature-responsive catalyst. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2011, 102, 85-92.	1.7	11
87	Si-doped graphene nanosheets as a metal-free catalyst for electrochemical detection of nitroaromatic explosives. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 848-856.	9.4	11
88	Carbon Quantum Dot Conjugated Copper(II) Phthalocyanine Integrating BiVO ₄ Semiconductor for Photocatalytic Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24413-24421.	3.1	11
89	Lacunary Derivative [HPW ₉ O ₃₄] ⁸⁻ as Reusable and Active Catalyst for Alcohol Oxidation in Water. <i>Synthetic Communications</i> , 2012, 42, 554-562.	2.1	8
90	Binuclear polyoxometalates based on abundant metals as efficient homogeneous photocatalytic water oxidation catalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 355, 371-376.	3.9	8

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91	Morphology Engineering of BiVO ₄ with CoO _x Derived from Cobalt-containing Polyoxometalate as Co-catalyst for Oxygen Evolution. Chemistry - an Asian Journal, 2021, 16, 2967-2972.	3.3	8
92	Epoxidation of Alkenes by Hydrogen Peroxide over 12-Heteropolyacids of Molybdenum and Tungsten (H ₃ PMo ₃ W ₉ O ₄₀) Combined with Cetylpyridinium Bromide. Journal of Chemical Research, 2006, 2006, 499-503.	1.3	7
93	Sulfamic Acid as A Cost-Effective Catalyst for Synthesis of α -Acyloxyacrylate Esters as Candidate Monomers for Biobased Polymers by Acylation of Pyruvate Esters. Synthetic Communications, 2012, 42, 3053-3060.	2.1	7
94	Viologen-based covalent triazine frameworks for NO ₂ sensing at room temperature. Sensors and Actuators B: Chemical, 2022, 352, 131045.	7.8	7
95	Immobilization of heteropolytungstate on functionalized KIT-1 mesoporous silica: catalyst for alkene epoxidation. Reaction Kinetics, Mechanisms and Catalysis, 2011, 102, 459-472.	1.7	6
96	A kinetic and spectroscopic study on the polyoxometalate species in a reaction-controlled phase transfer catalytic epoxidation system. Reaction Kinetics, Mechanisms and Catalysis, 2013, 109, 509-524.	1.7	5
97	Oxidation of Alcohols and Pyridines by a Water-Soluble Polyoxometalate with Hydrogen Peroxide. Synthetic Communications, 2013, 43, 1211-1218.	2.1	5
98	One-Step Synthesis of Isoamyl Butyrate from Isoamyl Alcohol and n-Butyraldehyde over TS-1 in Air. Catalysis Letters, 2003, 87, 81-83.	2.6	4
99	Study two kind different catalytic behaviors for K ₄ H _{1.2} [Co _{0.6} (H ₂ O) _{0.6} SiW _{11.4} O _{39.4}]-cocatalyzed visible light driven water oxidation in pH 1-7 media. Journal of Catalysis, 2020, 392, 29-38.	6.2	4
100	Metal-Organic Cages with {SiW ₉ Ni ₄ } Polyoxotungstate Nodes. Angewandte Chemie, 0, , .	2.0	4
101	Efficient water splitting over a hybrid photocatalyst with (002) active facets and heterostructure. Chemical Communications, 2022, 58, 8129-8132.	4.1	4
102	Defective acidic 2D COF-based catalysts for boosting the performance of polyoxymethylene diethyl ether synthesis under mild conditions. Dalton Transactions, 2021, 50, 5139-5145.	3.3	2