Yan Gao

List of Publications by Citations

51 papers	2,095 citations	18 h-index	45 g-index
53 ext. papers	2,344 ext. citations	8.5 avg, IF	4.88 L-index

#	Paper	IF	Citations
51	Visible light driven water splitting in a molecular device with unprecedentedly high photocurrent density. *Journal of the American Chemical Society*, **2013**, 135, 4219-22	16.4	303
50	Co3 O4 Hexagonal Platelets with Controllable Facets Enabling Highly Efficient Visible-Light Photocatalytic Reduction of CO2. *Advanced Materials*, **2016**, 28, 6485-90	24	296
49	Nucleophilic attack of hydroxide on a Mn(V) oxo complex: a model of the O-O bond formation in the oxygen evolving complex of photosystem II. *Journal of the American Chemical Society*, **2009**, 131, 8726-7	16.4	211
48	Synthesis of Copoly(aryl ether ether nitrile)s Containing Sulfonic Acid Groups for PEM Application *Macromolecules*, **2005**, 38, 3237-3245	5.5	134
47	Highly oriented MOF thin film-based electrocatalytic device for the reduction of CO2 to CO exhibiting high faradaic efficiency. *Journal of Materials Chemistry A*, **2016**, 4, 15320-15326	13	121
46	Towards a solar fuel device: light-driven water oxidation catalyzed by a supramolecular assembly. *Angewandte Chemie - International Edition*, **2012**, 51, 2417-20	16.4	112
45	Synthesis of Poly(arylene ether ether ketone ketone) Copolymers Containing Pendant Sulfonic Acid Groups Bonded to Naphthalene as Proton Exchange Membrane Materials *Macromolecules*, **2004**, 37, 6748-6754	5.5	103
44	Visible Light-Driven Water Splitting in Photoelectrochemical Cells with Supramolecular Catalysts on Photoanodes. *ACS Catalysis*, **2014**, 4, 2347-2350	13.1	102
43	Assembly of highly efficient photocatalytic CO2 conversion systems with ultrathin two-dimensional metal rganic framework nanosheets. *Applied Catalysis B: Environmental*, **2018**, 227, 54-60	21.8	94
42	Artificial photosynthesis--functional devices for light driven water splitting with photoactive anodes based on molecular catalysts. *Physical Chemistry Chemical Physics*, **2014**, 16, 12008-13	3.6	77
41	High-performance photoelectrochemical cells based on a binuclear ruthenium catalyst for visible-light-driven water oxidation. *ChemSusChem*, **2014**, 7, 2801-4	8.3	68
40	Highly Active Three-Dimensional NiFe/Cu O Nanowires/Cu Foam Electrode for Water Oxidation. *ChemSusChem*, **2017**, 10, 1475-1481	8.3	47
39	Design of photoanode-based dye-sensitized photoelectrochemical cells assembling with transition metal complexes for visible light-induced water splitting. *Coordination Chemistry Reviews*, **2018**, 357, 130-143	23.2	40
38	A CuSe-CuO film electrodeposited on titanium foil as a highly active and stable electrocatalyst for the oxygen evolution reaction. *Chemical Communications*, **2018**, 54, 4979-4982	5.8	28
37	Selective electroreduction of dinitrogen to ammonia on a molecular iron phthalocyanine/O-MWCNT catalyst under ambient conditions. *Chemical Communications*, **2019**, 55, 14111-14114	5.8	27
36	Perovskite Hydroxide CoSn(OH)6 Nanocubes for Efficient Photoreduction of CO2 to CO. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 781-786	8.3	25
35	Assembling Supramolecular Dye-Sensitized Photoelectrochemical Cells for Water Splitting. *ChemSusChem*, **2015**, 8, 3992-5	8.3	20

34	Towards A Solar Fuel Device: Light-Driven Water Oxidation Catalyzed by a Supramolecular Assembly. *Angewandte Chemie*, **2012**, 124, 2467-2470	3.6	19
33	Copper Oxide Film In-situ Electrodeposited from Cu(II) Complex as Highly Efficient Catalyst for Water Oxidation. *Electrochimica Acta*, **2017**, 230, 501-507	6.7	18
32	Highly efficient photocatalytic reduction of CO2 and H2O to CO and H2 with a cobalt bipyridyl complex. *Journal of Energy Chemistry*, **2018**, 27, 502-506	12	18
31	Artificial photosynthesis: photosensitizer/catalyst supramolecular assemblies for light driven water oxidation. *Faraday Discussions*, **2014**, 176, 225-32	3.6	18
30	Highly efficient Fe x Ni 1□x O y /CP electrode prepared via simple soaking and heating treatments for electrocatalytic water oxidation. *Journal of Energy Chemistry*, **2017**, 26, 428-432	12	14
29	Effects of Br substituent on catalytic performance of Ru-bda (H2bda = 2,2∀bipyridine-6,6∀dicarboxylic acid) catalysts for water oxidation. *Chinese Journal of Catalysis*, **2015**, 36, 1742-1749	11.3	14
28	Synthesis and Photophysical and Electrochemical Study of Tyrosine Covalently Linked to High-Valent Copper(III) and Manganese(IV) Complexes. *Helvetica Chimica Acta*, **2007**, 90, 553-561	2	13
27	Synthesis and characterization of a novel phthalazinone poly(aryl ether sulfone ketone) with carboxyl group. *Journal of Applied Polymer Science*, **2003**, 88, 1111-1114	2.9	13
26	A Cobalt-Based Film for Highly Efficient Electrocatalytic Water Oxidation in Neutral Aqueous Solution. *ChemCatChem*, **2016**, 8, 2757-2760	5.2	13
25	A highly efficient FeP/CeO-NF hybrid electrode for the oxygen evolution reaction. *Chemical Communications*, **2020**, 56, 4228-4231	5.8	12
24	Silicon Compound Decorated Photoanode for Performance Enhanced Visible Light Driven Water Splitting. *Electrochimica Acta*, **2016**, 215, 682-688	6.7	12
23	Design of a dinuclear ruthenium based catalyst with a rigid xanthene bridge for catalytic water oxidation. *Inorganic Chemistry Communication*, **2015**, 55, 56-59	3.1	11
22	Artificial photosynthesis: A two-electrode photoelectrochemical cell for light driven water oxidation with molecular components. *Electrochimica Acta*, **2014**, 149, 337-340	6.7	11
21	Boosting electrocatalytic reduction of nitrogen to ammonia under ambient conditions by alloy engineering. *Chemical Communications*, **2020**, 56, 11477-11480	5.8	11
20	A PMMA overlayer improving the surface-bound stability of photoanode for water splitting. *Electrochimica Acta*, **2016**, 207, 130-134	6.7	11
19	Water oxidation catalyzed by a charge-neutral mononuclear ruthenium(iii) complex. *Dalton Transactions*, **2017**, 46, 1304-1310	4.3	10
18	Efficient molecular ruthenium catalysts containing anionic ligands for water oxidation. *Dalton Transactions*, **2016**, 45, 18459-18464	4.3	10
17	Selective nitrogen reduction to ammonia on iron porphyrin-based single-site metal□rganic frameworks. *Journal of Materials Chemistry A*, **2021**, 9, 4673-4678	13	10

16	Insights into electrolyte effects on photoactivities of dye-sensitized photoelectrochemical cells for water splitting. *Journal of Energy Chemistry*, **2017**, 26, 476-480	12	7
15	Highly effective electrochemical water oxidation by copper oxide film generated in situ from Cu(II) tricine complex. *Chinese Journal of Catalysis*, **2018**, 39, 479-486	11.3	7
14	An ultrathin nickel-based film electrodeposited from a Ni-Tris molecular precursor for highly efficient electrocatalytic water oxidation. *Electrochimica Acta*, **2018**, 283, 104-110	6.7	7
13	A steady composite molecular anode Ru1/MWCNTsCOOH/GC for robust catalytic water oxidation. *Journal of Energy Chemistry*, **2019**, 35, 49-54	12	5
12	V4P6.98/VO(PO3)2 as an Efficient Non-Noble Metal Catalyst for Electrochemical Hydrogen Evolution in Alkaline Electrolyte. *ChemElectroChem*, **2019**, 6, 1329-1332	4.3	5
11	Influences of the adsorption state of catalyst on the performance of DS-PEC for visible light driven water splitting. *Journal of Energy Chemistry*, **2017**, 26, 163-167	12	4
10	Turning off hydrogen evolution via an organic dye photosensitizer in aqueous acetonitrile solution during photocatalytic CO2 reduction to CO. *Molecular Catalysis*, **2021**, 500, 111299	3.3	4
9	Protonation effect on catalytic water oxidation activity of a mononuclear Ru catalyst containing a free pyridine unit. *Journal of Energy Chemistry*, **2018**, 27, 1402-1408	12	3
8	Role of water oxidation in the photoreduction of graphene oxide. *Chemical Communications*, **2019**, 55, 1837-1840	5.8	2
7	Highly efficient photocatalytic CO2 reduction by a ruthenium complex sensitizing g-C3N4/MOF hybrid photocatalyst. *New Journal of Chemistry*, **2021**, 45, 8965-8970	3.6	2
6	Development of a ruthenium multi-pyridine complex as photosensitizer for highly efficient light driven water oxidation. *Inorganic Chemistry Communication*, **2017**, 86, 10-13	3.1	1
5	Ultrathin two-dimensional metal–organic framework nanosheets for efficient electrochemical CO2 reduction. *Journal of Energy Chemistry*, **2021**, 57, 627-631	12	1
4	Assembly of a Highly Efficient Molecular Device with (CNCbl)-MWCNT/CP as Electrode for CO2 Reduction Coupled to Water Oxidation. *ChemElectroChem*, **2021**, 8, 3567-3571	4.3	1
3	Bioinspired NiFe-gallate metal–organic frameworks for highly efficient oxygen evolution electrocatalysis. *Journal of Materials Chemistry A*, **2022**, 10, 7013-7019	13	0
2	An efficient self-assembly Ru-Al material as heterogeneous catalyst for water oxidation. *Inorganic Chemistry Communication*, **2016**, 70, 129-131	3.1	
1	Highly efficient photocatalytic CO2 reduction with an organic dye as photosensitizer. *Inorganic Chemistry Communication*, **2021**, 129, 108617	3.1	