Yan Gao

List of Publications by Year
in descending order

52 papers	2,585 citations	361413 20 h-index	182427 51 g-index
53 all docs	53 docs citations	53 times ranked	3464 citing authors

#	Article	IF	Citations
1	Co₃O₄ Hexagonal Platelets with Controllable Facets Enabling Highly Efficient Visibleâ€Light Photocatalytic Reduction of CO₂. Advanced Materials, 2016, 28, 6485-6490.	21.0	395
2	Visible Light Driven Water Splitting in a Molecular Device with Unprecedentedly High Photocurrent Density. Journal of the American Chemical Society, 2013, 135, 4219-4222.	13.7	330
3	Nucleophilic Attack of Hydroxide on a Mn^V Oxo Complex: A Model of the Oâ^'O Bond Formation in the Oxygen Evolving Complex of Photosystem II. Journal of the American Chemical Society, 2009, 131, 8726-8727.	13.7	238
4	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.	10.3	166
5	Synthesis of Copoly(aryl ether ether nitrile)s Containing Sulfonic Acid Groups for PEM Applicationâ€. Macromolecules, 2005, 38, 3237-3245.	4.8	142
6	Assembly of highly efficient photocatalytic CO2 conversion systems with ultrathin two-dimensional metalâ€“organic framework nanosheets. Applied Catalysis B: Environmental, 2018, 227, 54-60.	20.2	140
7	Towards A Solar Fuel Device: Lightâ€Driven Water Oxidation Catalyzed by a Supramolecular Assembly. Angewandte Chemie - International Edition, 2012, 51, 2417-2420.	13.8	126
8	Visible Light-Driven Water Splitting in Photoelectrochemical Cells with Supramolecular Catalysts on Photoanodes. ACS Catalysis, 2014, 4, 2347-2350.	11.2	115
9	Synthesis of Poly(arylene ether ether ketone ketone) Copolymers Containing Pendant Sulfonic Acid Groups Bonded to Naphthalene as Proton Exchange Membrane Materialsâ€. Macromolecules, 2004, 37, 6748-6754.	4.8	114
10	Artificial photosynthesis â€“ functional devices for light driven water splitting with photoactive anodes based on molecular catalysts. Physical Chemistry Chemical Physics, 2014, 16, 12008.	2.8	84
11	Highâ€Performance Photoelectrochemical Cells Based on a Binuclear Ruthenium Catalyst for Visibleâ€Lightâ€Driven Water Oxidation. ChemSusChem, 2014, 7, 2801-2804.	6.8	79
12	Highly Active Threeâ€Dimensional NiFe/Cu₂O Nanowires/Cu Foam Electrode for Water Oxidation. ChemSusChem, 2017, 10, 1475-1481.	6.8	53
13	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.	18.8	47
14	Selective electroreduction of dinitrogen to ammonia on a molecular iron phthalocyanine/O-MWCNT catalyst under ambient conditions. Chemical Communications, 2019, 55, 14111-14114.	4.1	46
15	A Cu₂Seâ€“Cu₂O film electrodeposited on titanium foil as a highly active and stable electrocatalyst for the oxygen evolution reaction. Chemical Communications, 2018, 54, 4979-4982.	4.1	42
16	Selective nitrogen reduction to ammonia on iron porphyrin-based single-site metalâ€“organic frameworks. Journal of Materials Chemistry A, 2021, 9, 4673-4678.	10.3	42
17	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.	12.9	33
18	Perovskite Hydroxide CoSn(OH)₆ Nanocubes for Efficient Photoreduction of CO₂ to CO. ACS Sustainable Chemistry and Engineering, 2018, 6, 781-786.	6.7	29

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19	Assembling Supramolecular Dyeâ€Sensitized Photoelectrochemical Cells for Water Splitting. ChemSusChem, 2015, 8, 3992-3995.	6.8	24
20	Boosting electrocatalytic reduction of nitrogen to ammonia under ambient conditions by alloy engineering. Chemical Communications, 2020, 56, 11477-11480.	4.1	20
21	A highly efficient FeP/CeO₂â€“NF hybrid electrode for the oxygen evolution reaction. Chemical Communications, 2020, 56, 4228-4231.	4.1	19
22	Artificial photosynthesis: photosensitizer/catalyst supramolecular assemblies for light driven water oxidation. Faraday Discussions, 2014, 176, 225-232.	3.2	18
23	Copper Oxide Film In-situ Electrodeposited from Cu(II) Complex as Highly Efficient Catalyst for Water Oxidation. Electrochimica Acta, 2017, 230, 501-507.	5.2	18
24	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.	1.6	15
25	Highly efficient Fe x Ni 1âˆ’ x O y /CP electrode prepared via simple soaking and heating treatments for electrocatalytic water oxidation. Journal of Energy Chemistry, 2017, 26, 428-432.	12.9	15
26	Effects of Br substituent on catalytic performance of Ru-bda (H2bda = 2,2'-bipyridine-6,6'-dicarboxylic) Tj ETQq0 0 0 rgBT /Overlock 10 T	14.0	14
27	A PMMA overlayer improving the surface-bound stability of photoanode for water splitting. Electrochimica Acta, 2016, 207, 130-134.	5.2	14
28	Water oxidation catalyzed by a charge-neutral mononuclear ruthenium(<scp>iii</scp>) complex. Dalton Transactions, 2017, 46, 1304-1310.	3.3	14
29	Synthesis and characterization of a novel phthalazinone poly(aryl ether sulfone ketone) with carboxyl group. Journal of Applied Polymer Science, 2003, 88, 1111-1114.	2.6	13
30	Silicon Compound Decorated Photoanode for Performance Enhanced Visible Light Driven Water Splitting. Electrochimica Acta, 2016, 215, 682-688.	5.2	13
31	A Cobaltâ€Based Film for Highly Efficient Electrocatalytic Water Oxidation in Neutral Aqueous Solution. ChemCatChem, 2016, 8, 2757-2760.	3.7	13
32	Design of a dinuclear ruthenium based catalyst with a rigid xanthene bridge for catalytic water oxidation. Inorganic Chemistry Communication, 2015, 55, 56-59.	3.9	12
33	Efficient molecular ruthenium catalysts containing anionic ligands for water oxidation. Dalton Transactions, 2016, 45, 18459-18464.	3.3	12
34	An ultrathin nickel-based film electrodeposited from a Ni-Tris molecular precursor for highly efficient electrocatalytic water oxidation. Electrochimica Acta, 2018, 283, 104-110.	5.2	12
35	Artificial photosynthesis: A two-electrode photoelectrochemical cell for light driven water oxidation with molecular components. Electrochimica Acta, 2014, 149, 337-340.	5.2	11
36	Insights into electrolyte effects on photoactivities of dye-sensitized photoelectrochemical cells for water splitting. Journal of Energy Chemistry, 2017, 26, 476-480.	12.9	10

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37	Turning off hydrogen evolution via an organic dye photosensitizer in aqueous acetonitrile solution during photocatalytic CO2 reduction to CO. Molecular Catalysis, 2021, 500, 111299.	2.0	10
38	Bioinspired NiFeâ€“gallate metalâ€“organic frameworks for highly efficient oxygen evolution electrocatalysis. Journal of Materials Chemistry A, 2022, 10, 7013-7019.	10.3	9
39	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.	14.0	8
40	V₄P_{6.98}/VO(PO₃)₂ as an Efficient Nonâ€Noble Metal Catalyst for Electrochemical Hydrogen Evolution in Alkaline Electrolyte. ChemElectroChem, 2019, 6, 1329-1332.	3.4	8
41	Ultrathin two-dimensional metalâ€“organic framework nanosheets for efficient electrochemical CO2 reduction. Journal of Energy Chemistry, 2021, 57, 627-631.	12.9	8
42	A steady composite molecular anode Ru1/MWCNTsCOOH/GC for robust catalytic water oxidation. Journal of Energy Chemistry, 2019, 35, 49-54.	12.9	6
43	Highly efficient photocatalytic CO2 reduction by a ruthenium complex sensitizing g-C3N4/MOF hybrid photocatalyst. New Journal of Chemistry, 2021, 45, 8965-8970.	2.8	6
44	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.	12.9	5
45	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.	12.9	4
46	Tandem ZnCo-porphyrin metalâ€“organic frameworks for enhanced photoreduction of CO₂. Inorganic Chemistry Frontiers, 2022, 9, 4369-4375.	6.0	3
47	Development of a ruthenium multi-pyridine complex as photosensitizer for highly efficient light driven water oxidation. Inorganic Chemistry Communication, 2017, 86, 10-13.	3.9	2
48	Role of water oxidation in the photoreduction of graphene oxide. Chemical Communications, 2019, 55, 1837-1840.	4.1	2
49	Highly efficient photocatalytic CO2 reduction with an organic dye as photosensitizer. Inorganic Chemistry Communication, 2021, 129, 108617.	3.9	2
50	Assembly of a Highly Efficient Molecular Device with (CNCbl)â€MWCNT/CP as Electrode for CO 2 Reduction Coupled to Water Oxidation. ChemElectroChem, 2021, 8, 3567-3571.	3.4	2
51	Crystal interpenetration featured NiWSe@NF acicular nanowires for performance enhanced water splitting. International Journal of Hydrogen Energy, 2021, , .	7.1	1
52	An efficient self-assembly Ru - Al material as heterogeneous catalyst for water oxidation. Inorganic Chemistry Communication, 2016, 70, 129-131.	3.9	0