

Ke Fan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77
papers

4,648
citations

38
h-index

68
g-index

79
ext. papers

5,428
ext. citations

8.8
avg, IF

6.01
L-index

#	Paper	IF	Citations
77	WO ₃ Nanosheet-Supported IrW Alloy for High-Performance Acidic Overall Water Splitting with Low Ir Loading. <i>ACS Applied Energy Materials</i> , 2022 , 5, 970-980	6.1	3
76	Sacrificial W Facilitates Self-Reconstruction with Abundant Active Sites for Water Oxidation.. <i>Small</i> , 2022 , e2107249	11	1
75	Promotion of the oxygen evolution performance of Ni-Fe layered hydroxides via the introduction of a proton-transfer mediator anion. <i>Science China Chemistry</i> , 2022 , 65, 382-390	7.9	3
74	Cu-Based Bimetallic Electrocatalysts for CO ₂ Reduction 2021 , 100012-100012		18
73	Ni -rich NiFeBa as an Efficient Catalyst for Water Oxidation. <i>ChemSusChem</i> , 2021 , 14, 2516-2520	8.3	0
72	Surface engineering induced hierarchical porous Ni ₁₂ P ₅ -Ni ₂ P polymorphs catalyst for efficient wide pH hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2021 , 282, 119609	21.8	41
71	Recent strategies to enhance the efficiency of hematite photoanodes in photoelectrochemical water splitting. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 904-919	11.3	2
70	In Situ Induced Crystalline-Amorphous Heterophase Junction by K to Improve Photoelectrochemical Water Oxidation of BiVO ₄ . <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2723-2733	9.5	5
69	Selective Electrochemical Alkaline Seawater Oxidation Catalyzed by Cobalt Carbonate Hydroxide Nanorod Arrays with Sequential Proton-Electron Transfer Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 905-913	8.3	7
68	Surface and bulk reconstruction of CoW sulfides during pH-universal electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11359-11369	13	8
67	Molecular Engineering of Photocathodes based on Polythiophene Organic Semiconductors for Photoelectrochemical Hydrogen Generation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 40602-40611	8.7	1
66	Selective Electro-oxidation of Alcohols to the Corresponding Aldehydes in Aqueous Solution via Cu(III) Intermediates from CuO Nanorods. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 11855-11861	8.3	5
65	Amorphous WO ₃ induced lattice distortion for a low-cost and high-efficient electrocatalyst for overall water splitting in acid. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1712-1722	5.8	11
64	Selectively Etching Vanadium Oxide to Modulate Surface Vacancies of Unary Metal-Based Electrocatalysts for High-Performance Water Oxidation. <i>Advanced Energy Materials</i> , 2020 , 10, 1903571	21.8	43
63	Cobalt polyoxometalate on N-doped carbon layer to boost photoelectrochemical water oxidation of BiVO ₄ . <i>Chemical Engineering Journal</i> , 2020 , 392, 123744	14.7	34
62	Curved Surface Boosts Electrochemical CO ₂ Reduction to Formate via Bismuth Nanotubes in a Wide Potential Window. <i>ACS Catalysis</i> , 2020 , 10, 358-364	13.1	107
61	Boosting Electrocatalytic Water Oxidation by Creating Defects and Lattice-Oxygen Active Sites on Ni-Fe Nanosheets. <i>ChemSusChem</i> , 2020 , 13, 5067-5072	8.3	6

60	0D/2D NiS ₂ /V-MXene composite for electrocatalytic H ₂ evolution. <i>Journal of Catalysis</i> , 2019 , 375, 8-20	7.3	85
59	0D/3D MoS ₂ -NiS ₂ /N-doped graphene foam composite for efficient overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 15-25	21.8	159
58	Ultrafine iron-cobalt nanoparticles embedded in nitrogen-doped porous carbon matrix for oxygen reduction reaction and zinc-air batteries. <i>Journal of Colloid and Interface Science</i> , 2019 , 546, 113-121	9.3	31
57	Microporous core-shell Co ₁₁ (HPO ₃) ₈ (OH) ₆ /Co ₁₁ (PO ₃) ₈ O ₆ nanowires for highly efficient electrocatalytic oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118091	21.8	15
56	In Situ Transformation of Prussian-Blue Analogue-Derived Bimetallic Carbide Nanocubes by Water Oxidation: Applications for Energy Storage and Conversion. <i>Chemistry - A European Journal</i> , 2019 , 26, 4052	4.8	12
55	Binary Solvent Engineering for High-Performance Two-Dimensional Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3487-3495	8.3	54
54	NixSy Nanowalls/Nitrogen-Doped Graphene Foam Is an Efficient Trifunctional Catalyst for Unassisted Artificial Photosynthesis. <i>Advanced Functional Materials</i> , 2018 , 28, 1706917	15.6	61
53	MOF-Based Transparent Passivation Layer Modified ZnO Nanorod Arrays for Enhanced Photo-Electrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2018 , 8, 1800101	21.8	109
52	Graphdiyne: a superior carbon additive to boost the activity of water oxidation catalysts. <i>Nanoscale Horizons</i> , 2018 , 3, 317-326	10.8	97
51	Investigation of Al ₂ O ₃ and ZrO ₂ spacer layers for fully printable and hole-conductor-free mesoscopic perovskite solar cells. <i>Applied Surface Science</i> , 2018 , 430, 632-638	6.7	36
50	Enhanced photocurrent density of HTM-free perovskite solar cells by carbon quantum dots. <i>Applied Surface Science</i> , 2018 , 430, 625-631	6.7	53
49	Hole-conductor-free perovskite solar cells prepared with carbon counter electrode. <i>Applied Surface Science</i> , 2018 , 430, 531-538	6.7	32
48	Effects of Ti precursors on the performance of planar perovskite solar cells. <i>Applied Surface Science</i> , 2018 , 462, 598-605	6.7	11
47	Metal-Organic Framework-Derived Nickel-Cobalt Sulfide on Ultrathin Mxene Nanosheets for Electrocatalytic Oxygen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22311-22319	9.5	184
46	Direct Observation of Structural Evolution of Metal Chalcogenide in Electrocatalytic Water Oxidation. <i>ACS Nano</i> , 2018 , 12, 12369-12379	16.7	220
45	Hollow Iron-Vanadium Composite Spheres: A Highly Efficient Iron-Based Water Oxidation Electrocatalyst without the Need for Nickel or Cobalt. <i>Angewandte Chemie</i> , 2017 , 129, 3337-3341	3.6	21
44	Hollow Iron-Vanadium Composite Spheres: A Highly Efficient Iron-Based Water Oxidation Electrocatalyst without the Need for Nickel or Cobalt. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3289-3293	16.4	161
43	Hierarchical TiO ₂ Submicrorods Improve the Photovoltaic Performance of Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1315-1321	8.3	43

42	Re-Investigation of Cobalt Porphyrin for Electrochemical Water Oxidation on FTO Surface: Formation of CoO _x as Active Species. <i>ACS Catalysis</i> , 2017 , 7, 1143-1149	13.1	57
41	Improving photoanodes to obtain highly efficient dye-sensitized solar cells: a brief review. <i>Materials Horizons</i> , 2017 , 4, 319-344	14.4	129
40	In Situ Fabrication of NiMo Bimetal Sulfide Hybrid as an Efficient Electrocatalyst for Hydrogen Evolution over a Wide pH Range. <i>ACS Catalysis</i> , 2017 , 7, 6179-6187	13.1	210
39	Nanosheet-based printable perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 159, 518-525	12.5	40
38	Towards efficient and robust anodes for water splitting: Immobilization of Ru catalysts on carbon electrode and hematite by in situ polymerization. <i>Catalysis Today</i> , 2017 , 290, 73-77	5.3	19
37	Electrochemically reduced graphene oxide on silicon nanowire arrays for enhanced photoelectrochemical hydrogen evolution. <i>Dalton Transactions</i> , 2016 , 45, 13717-25	4.3	29
36	Nickel-vanadium monolayer double hydroxide for efficient electrochemical water oxidation. <i>Nature Communications</i> , 2016 , 7, 11981	17.4	635
35	A comprehensive comparison of dye-sensitized NiO photocathodes for solar energy conversion. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 10727-38	3.6	116
34	V-shaped organic dyes with triphenylamine core for dye-sensitized solar cells: Simple synthesis with enhanced open-circuit voltage. <i>Synthetic Metals</i> , 2016 , 211, 19-24	3.6	5
33	Design of organic dyes for dye-sensitized solar cells: Extending π -conjugation backbone via Click reaction to improve photovoltaic performances. <i>Dyes and Pigments</i> , 2015 , 117, 108-115	4.6	7
32	Organic Dye-Sensitized Tandem Photoelectrochemical Cell for Light Driven Total Water Splitting. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9153-9	16.4	289
31	Electrochemical driven water oxidation by molecular catalysts in situ polymerized on the surface of graphite carbon electrode. <i>Chemical Communications</i> , 2015 , 51, 7883-6	5.8	40
30	Immobilization of a Molecular Ruthenium Catalyst on Hematite Nanorod Arrays for Water Oxidation with Stable Photocurrent. <i>ChemSusChem</i> , 2015 , 8, 3242-7	8.3	45
29	Immobilizing Ru(bda) Catalyst on a Photoanode via Electrochemical Polymerization for Light-Driven Water Splitting. <i>ACS Catalysis</i> , 2015 , 5, 3786-3790	13.1	74
28	Synthesis and photovoltaic property of new kind of organic dyes containing 2,2'-bithiophene unit with three electron-donors. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014 , 278, 39-45	4.7	12
27	Application of ZnO micro-flowers as scattering layer for ZnO-based dye-sensitized solar cells with enhanced conversion efficiency. <i>Solar Energy</i> , 2014 , 101, 150-159	6.8	64
26	Pt-free tandem molecular photoelectrochemical cells for water splitting driven by visible light. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25234-40	3.6	117
25	Efficient Panchromatic Light Harvesting with Co-Sensitization of Zinc Phthalocyanine and Bithiophene-Based Organic Dye for Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 718-725	8.3	63

24	Multiwalled Carbon Nanotube-TiO ₂ Nanocomposite for Visible-Light-Induced Photocatalytic Hydrogen Evolution. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-8	3.2	11
23	Hydrothermal synthesis of single-walled carbon nanotube-TiO ₂ hybrid and its photocatalytic activity. <i>Applied Surface Science</i> , 2013 , 270, 238-244	6.7	73
22	A simple preparation method for quasi-solid-state flexible dye-sensitized solar cells by using sea urchin-like anatase TiO ₂ microspheres. <i>Journal of Power Sources</i> , 2013 , 222, 38-44	8.9	67
21	Optimization of plastic crystal ionic liquid electrolyte for solid-state dye-sensitized solar cell. <i>Electrochimica Acta</i> , 2013 , 94, 1-6	6.7	14
20	A new class of organic dyes containing β -substituted 2, 2'-bithiophene unit as a linker for dye-sensitized solar cells: Structural modification for understanding relationship of structure and photovoltaic performances. <i>Journal of Power Sources</i> , 2013 , 234, 23-30	8.9	33
19	New sensitizers bearing quinoxaline moieties as an auxiliary acceptor for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2013 , 98, 405-413	4.6	30
18	Recent Development of Dye-Sensitized Solar Cells Based on Flexible Substrates. <i>Science of Advanced Materials</i> , 2013 , 5, 1596-1626	2.3	18
17	Triphenylamine-based organic dyes containing a 1,2,3-triazole bridge for dye-sensitized solar cells via a click-reaction. <i>Dyes and Pigments</i> , 2012 , 94, 28-33	4.6	72
16	High performance organic sensitizers based on 11,12-bis(hexyloxy) dibenzo[a,c]phenazine for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18830		83
15	Self-organized film of ultra-fine TiO ₂ nanotubes and its application to dye-sensitized solar cells on a flexible Ti-foil substrate. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4681		26
14	New organic dyes containing tert-Butyl-capped N-Arylcarbazole moiety for Dye-sensitized solar cells. <i>RSC Advances</i> , 2012 , 2, 7081	3.7	26
13	Low-cost, quasi-solid-state and TCO-free highly bendable dye-sensitized cells on paper substrate. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16121		22
12	Effects of Metal Oxide Modifications on Photoelectrochemical Properties of Mesoporous TiO ₂ Nanoparticles Electrodes for Dye-Sensitized Solar Cells. <i>Chinese Journal of Chemical Physics</i> , 2012 , 25, 609-616	0.9	1
11	A novel preparation of small TiO ₂ nanoparticle and its application to dye-sensitized solar cells with binder-free paste at low temperature. <i>Nanoscale</i> , 2011 , 3, 3900-6	7.7	22
10	Effects of tetrabutoxytitanium on photoelectrochemical properties of plastic-based TiO ₂ film electrodes for flexible dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2011 , 196, 2939-2944	8.9	34
9	Iodine-free quasi solid-state dye-sensitized solar cells based on ionic liquid and alkali salt. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16448		38
8	Application of TiO ₂ Fusiform Nanorods for Dye-Sensitized Solar Cells with Significantly Improved Efficiency. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17213-17219	3.8	93
7	A novel CuI-based iodine-free gel electrolyte for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011 , 56, 5554-5560	6.7	15

6	Effects of rare earth ion modifications on the photoelectrochemical properties of ZnO-based dye-sensitized solar cells. <i>Renewable Energy</i> , 2011 , 36, 3386-3393	8.1	41
5	Enhanced Energy Conversion Efficiency of Mg ²⁺ -Modified Mesoporous TiO ₂ Nanoparticles Electrodes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22346-22351	3.8	51
4	Effects of paste components on the properties of screen-printed porous TiO ₂ film for dye-sensitized solar cells. <i>Renewable Energy</i> , 2010 , 35, 555-561	8.1	66
3	Fabrication and photoelectrochemical properties of TiO ₂ films on Ti substrate for flexible dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010 , 55, 5239-5244	6.7	54
2	Effects of annealing conditions on the photoelectrochemical properties of dye-sensitized solar cells made with ZnO nanoparticles. <i>Solar Energy</i> , 2010 , 84, 844-853	6.8	103
1	Fabrication and properties of meso-macroporous electrodes screen-printed from mesoporous titania nanoparticles for dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2009 , 118, 477-483	4.4	24