

# Ke Fan

## List of Publications by Citations

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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	Nickel-vanadium monolayer double hydroxide for efficient electrochemical water oxidation. <i>Nature Communications</i> , <b>2016</b> , 7, 11981	17.4	635
76	Organic Dye-Sensitized Tandem Photoelectrochemical Cell for Light Driven Total Water Splitting. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 9153-9	16.4	289
75	Direct Observation of Structural Evolution of Metal Chalcogenide in Electrocatalytic Water Oxidation. <i>ACS Nano</i> , <b>2018</b> , 12, 12369-12379	16.7	220
74	In Situ Fabrication of NiMo Bimetal Sulfide Hybrid as an Efficient Electrocatalyst for Hydrogen Evolution over a Wide pH Range. <i>ACS Catalysis</i> , <b>2017</b> , 7, 6179-6187	13.1	210
73	Metal-Organic Framework-Derived Nickel-Cobalt Sulfide on Ultrathin Mxene Nanosheets for Electrocatalytic Oxygen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 22311-22319	9.5	184
72	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> , <b>2017</b> , 56, 3289-3293	16.4	161
71	0D/3D MoS <sub>2</sub> -NiS <sub>2</sub> /N-doped graphene foam composite for efficient overall water splitting. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 254, 15-25	21.8	159
70	Improving photoanodes to obtain highly efficient dye-sensitized solar cells: a brief review. <i>Materials Horizons</i> , <b>2017</b> , 4, 319-344	14.4	129
69	Pt-free tandem molecular photoelectrochemical cells for water splitting driven by visible light. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 25234-40	3.6	117
68	A comprehensive comparison of dye-sensitized NiO photocathodes for solar energy conversion. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 10727-38	3.6	116
67	MOF-Based Transparent Passivation Layer Modified ZnO Nanorod Arrays for Enhanced Photo-Electrochemical Water Splitting. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800101	21.8	109
66	Curved Surface Boosts Electrochemical CO <sub>2</sub> Reduction to Formate via Bismuth Nanotubes in a Wide Potential Window. <i>ACS Catalysis</i> , <b>2020</b> , 10, 358-364	13.1	107
65	Effects of annealing conditions on the photoelectrochemical properties of dye-sensitized solar cells made with ZnO nanoparticles. <i>Solar Energy</i> , <b>2010</b> , 84, 844-853	6.8	103
64	Graphdiyne: a superior carbon additive to boost the activity of water oxidation catalysts. <i>Nanoscale Horizons</i> , <b>2018</b> , 3, 317-326	10.8	97
63	Application of TiO <sub>2</sub> Fusiform Nanorods for Dye-Sensitized Solar Cells with Significantly Improved Efficiency. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 17213-17219	3.8	93
62	0D/2D NiS <sub>2</sub> /V-MXene composite for electrocatalytic H <sub>2</sub> evolution. <i>Journal of Catalysis</i> , <b>2019</b> , 375, 8-20	7.3	85
61	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> , <b>2012</b> , 22, 18830		83

60	Immobilizing Ru(bda) Catalyst on a Photoanode via Electrochemical Polymerization for Light-Driven Water Splitting. <i>ACS Catalysis</i> , <b>2015</b> , 5, 3786-3790	13.1	74
59	Hydrothermal synthesis of single-walled carbon nanotube-TiO <sub>2</sub> hybrid and its photocatalytic activity. <i>Applied Surface Science</i> , <b>2013</b> , 270, 238-244	6.7	73
58	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> , <b>2012</b> , 94, 28-33	4.6	72
57	A simple preparation method for quasi-solid-state flexible dye-sensitized solar cells by using sea urchin-like anatase TiO <sub>2</sub> microspheres. <i>Journal of Power Sources</i> , <b>2013</b> , 222, 38-44	8.9	67
56	Effects of paste components on the properties of screen-printed porous TiO <sub>2</sub> film for dye-sensitized solar cells. <i>Renewable Energy</i> , <b>2010</b> , 35, 555-561	8.1	66
55	Application of ZnO micro-flowers as scattering layer for ZnO-based dye-sensitized solar cells with enhanced conversion efficiency. <i>Solar Energy</i> , <b>2014</b> , 101, 150-159	6.8	64
54	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> , <b>2014</b> , 2, 718-725	8.3	63
53	NixSy Nanowalls/Nitrogen-Doped Graphene Foam Is an Efficient Trifunctional Catalyst for Unassisted Artificial Photosynthesis. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706917	15.6	61
52	Re-Investigation of Cobalt Porphyrin for Electrochemical Water Oxidation on FTO Surface: Formation of CoOx as Active Species. <i>ACS Catalysis</i> , <b>2017</b> , 7, 1143-1149	13.1	57
51	Fabrication and photoelectrochemical properties of TiO <sub>2</sub> films on Ti substrate for flexible dye-sensitized solar cells. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 5239-5244	6.7	54
50	Binary Solvent Engineering for High-Performance Two-Dimensional Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 3487-3495	8.3	54
49	Enhanced photocurrent density of HTM-free perovskite solar cells by carbon quantum dots. <i>Applied Surface Science</i> , <b>2018</b> , 430, 625-631	6.7	53
48	Enhanced Energy Conversion Efficiency of Mg <sup>2+</sup> -Modified Mesoporous TiO <sub>2</sub> Nanoparticles Electrodes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 22346-22351	3.8	51
47	Immobilization of a Molecular Ruthenium Catalyst on Hematite Nanorod Arrays for Water Oxidation with Stable Photocurrent. <i>ChemSusChem</i> , <b>2015</b> , 8, 3242-7	8.3	45
46	Hierarchical TiO <sub>2</sub> Submicrorods Improve the Photovoltaic Performance of Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 1315-1321	8.3	43
45	Selectively Etching Vanadium Oxide to Modulate Surface Vacancies of Unary Metal-Based Electrocatalysts for High-Performance Water Oxidation. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903571	21.8	43
44	Effects of rare earth ion modifications on the photoelectrochemical properties of ZnO-based dye-sensitized solar cells. <i>Renewable Energy</i> , <b>2011</b> , 36, 3386-3393	8.1	41
43	Surface engineering induced hierarchical porous Ni <sub>12</sub> P <sub>5</sub> -Ni <sub>2</sub> P polymorphs catalyst for efficient wide pH hydrogen production. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 282, 119609	21.8	41

42	Electrochemical driven water oxidation by molecular catalysts in situ polymerized on the surface of graphite carbon electrode. <i>Chemical Communications</i> , <b>2015</b> , 51, 7883-6	5.8	40
41	Nanosheet-based printable perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 159, 518-525	5.5	40
40	Iodine-free quasi solid-state dye-sensitized solar cells based on ionic liquid and alkali salt. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 16448		38
39	Investigation of Al <sub>2</sub> O <sub>3</sub> and ZrO <sub>2</sub> spacer layers for fully printable and hole-conductor-free mesoscopic perovskite solar cells. <i>Applied Surface Science</i> , <b>2018</b> , 430, 632-638	6.7	36
38	Effects of tetrabutoxytitanium on photoelectrochemical properties of plastic-based TiO <sub>2</sub> film electrodes for flexible dye-sensitized solar cells. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 2939-2944	8.9	34
37	Cobalt polyoxometalate on N-doped carbon layer to boost photoelectrochemical water oxidation of BiVO <sub>4</sub> . <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123744	14.7	34
36	A new class of organic dyes containing $\pi$ -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> , <b>2013</b> , 234, 23-30	8.9	33
35	Hole-conductor-free perovskite solar cells prepared with carbon counter electrode. <i>Applied Surface Science</i> , <b>2018</b> , 430, 531-538	6.7	32
34	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> , <b>2019</b> , 546, 113-121	9.3	31
33	New sensitizers bearing quinoxaline moieties as an auxiliary acceptor for dye-sensitized solar cells. <i>Dyes and Pigments</i> , <b>2013</b> , 98, 405-413	4.6	30
32	Electrochemically reduced graphene oxide on silicon nanowire arrays for enhanced photoelectrochemical hydrogen evolution. <i>Dalton Transactions</i> , <b>2016</b> , 45, 13717-25	4.3	29
31	Self-organized film of ultra-fine TiO <sub>2</sub> nanotubes and its application to dye-sensitized solar cells on a flexible Ti-foil substrate. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 4681		26
30	New organic dyes containing tert-Butyl-capped N-Arylcarbazole moiety for Dye-sensitized solar cells. <i>RSC Advances</i> , <b>2012</b> , 2, 7081	3.7	26
29	Fabrication and properties of meso-macroporous electrodes screen-printed from mesoporous titania nanoparticles for dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 118, 477-483	4.4	24
28	Low-cost, quasi-solid-state and TCO-free highly bendable dye-sensitized cells on paper substrate. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 16121		22
27	A novel preparation of small TiO <sub>2</sub> nanoparticle and its application to dye-sensitized solar cells with binder-free paste at low temperature. <i>Nanoscale</i> , <b>2011</b> , 3, 3900-6	7.7	22
26	Hollow Iron-Vanadium Composite Spheres: A Highly Efficient Iron-Based Water Oxidation Electrocatalyst without the Need for Nickel or Cobalt. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 3337-3341	3.6	21
25	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> , <b>2017</b> , 290, 73-77	5.3	19

24	Recent Development of Dye-Sensitized Solar Cells Based on Flexible Substrates. <i>Science of Advanced Materials</i> , <b>2013</b> , 5, 1596-1626	2.3	18
23	Cu-Based Bimetallic Electrocatalysts for CO <sub>2</sub> Reduction <b>2021</b> , 100012-100012		18
22	Microporous core-shell Co <sub>11</sub> (HPO <sub>3</sub> ) <sub>8</sub> (OH) <sub>6</sub> /Co <sub>11</sub> (PO <sub>3</sub> ) <sub>8</sub> O <sub>6</sub> nanowires for highly efficient electrocatalytic oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 259, 118091	21.8	15
21	A novel CuI-based iodine-free gel electrolyte for dye-sensitized solar cells. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 5554-5560	6.7	15
20	Optimization of plastic crystal ionic liquid electrolyte for solid-state dye-sensitized solar cell. <i>Electrochimica Acta</i> , <b>2013</b> , 94, 1-6	6.7	14
19	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> , <b>2019</b> , 26, 4052	4.8	12
18	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> , <b>2014</b> , 278, 39-45	4.7	12
17	Effects of Ti precursors on the performance of planar perovskite solar cells. <i>Applied Surface Science</i> , <b>2018</b> , 462, 598-605	6.7	11
16	Multiwalled Carbon Nanotube-TiO <sub>2</sub> Nanocomposite for Visible-Light-Induced Photocatalytic Hydrogen Evolution. <i>Journal of Nanomaterials</i> , <b>2014</b> , 2014, 1-8	3.2	11
15	Amorphous WO <sub>3</sub> induced lattice distortion for a low-cost and high-efficient electrocatalyst for overall water splitting in acid. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 1712-1722	5.8	11
14	Surface and bulk reconstruction of CoW sulfides during pH-universal electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11359-11369	13	8
13	Design of organic dyes for dye-sensitized solar cells: Extending $\pi$ conjugation backbone via $\text{Click}$ reaction to improve photovoltaic performances. <i>Dyes and Pigments</i> , <b>2015</b> , 117, 108-115	4.6	7
12	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> , <b>2021</b> , 9, 905-913	8.3	7
11	Boosting Electrocatalytic Water Oxidation by Creating Defects and Lattice-Oxygen Active Sites on Ni-Fe Nanosheets. <i>ChemSusChem</i> , <b>2020</b> , 13, 5067-5072	8.3	6
10	V-shaped organic dyes with triphenylamine core for dye-sensitized solar cells: Simple synthesis with enhanced open-circuit voltage. <i>Synthetic Metals</i> , <b>2016</b> , 211, 19-24	3.6	5
9	In Situ Induced Crystalline-Amorphous Heterophase Junction by K to Improve Photoelectrochemical Water Oxidation of BiVO <sub>4</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 2723-2733	9.5	5
8	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> , <b>2021</b> , 9, 11855-11861	8.3	5
7	WO <sub>3</sub> Nanosheet-Supported IrW Alloy for High-Performance Acidic Overall Water Splitting with Low Ir Loading. <i>ACS Applied Energy Materials</i> , <b>2022</b> , 5, 970-980	6.1	3

6	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> , <b>2022</b> , 65, 382-390	7.9	3
5	Recent strategies to enhance the efficiency of hematite photoanodes in photoelectrochemical water splitting. <i>Chinese Journal of Catalysis</i> , <b>2021</b> , 42, 904-919	11.3	2
4	Effects of Metal Oxide Modifications on Photoelectrochemical Properties of Mesoporous TiO <sub>2</sub> Nanoparticles Electrodes for Dye-Sensitized Solar Cells. <i>Chinese Journal of Chemical Physics</i> , <b>2012</b> , 25, 609-616	0.9	1
3	Sacrificial W Facilitates Self-Reconstruction with Abundant Active Sites for Water Oxidation.. <i>Small</i> , <b>2022</b> , e2107249	11	1
2	Molecular Engineering of Photocathodes based on Polythiophene Organic Semiconductors for Photoelectrochemical Hydrogen Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 40602-40611	8.5	1
1	Ni -rich NiFeBa as an Efficient Catalyst for Water Oxidation. <i>ChemSusChem</i> , <b>2021</b> , 14, 2516-2520	8.3	0