

Miao Kan

List of Publications by Citations

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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.

36
papers

2,490
citations

19
h-index

40
g-index

40
ext. papers

3,149
ext. citations

13.3
avg, IF

5.51
L-index

#	Paper	IF	Citations
36	Thermodynamically stabilized CsPbI_3 -based perovskite solar cells with efficiencies >18. <i>Science</i> , 2019 , 365, 591-595	33.3	644
35	Bifunctional Stabilization of All-Inorganic CsPbI_3 Perovskite for 17% Efficiency Photovoltaics. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12345-12348	16.4	434
34	The Role of Dimethylammonium Iodide in CsPbI_3 Perovskite Fabrication: Additive or Dopant?. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16691-16696	16.4	264
33	Efficient CsPbI_3 Photovoltaics with Surface Terminated Organic Cations. <i>Joule</i> , 2018 , 2, 2065-2075	27.8	210
32	Carbon quantum dots decorated Bi_2WO_6 nanocomposite with enhanced photocatalytic oxidation activity for VOCs. <i>Applied Catalysis B: Environmental</i> , 2016 , 193, 16-21	21.8	198
31	FeOOH quantum dots coupled g- C_3N_4 for visible light driving photo-Fenton degradation of organic pollutants. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 513-520	21.8	143
30	Hydrophilic mesoporous carbon as iron(III)/II electron shuttle for visible light enhanced Fenton-like degradation of organic pollutants. <i>Applied Catalysis B: Environmental</i> , 2018 , 231, 108-114	21.8	72
29	CdTe/CdS Core/Shell Quantum Dots Cocatalyzed by Sulfur Tolerant $[\text{Mo}_3\text{S}_{13}]_2$ Nanoclusters for Efficient Visible-Light-Driven Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 6653-6658	8.3	50
28	Sulfurated $[\text{NiFe}]$ -based layered double hydroxides nanoparticles as efficient co-catalysts for photocatalytic hydrogen evolution using CdTe/CdS quantum dots. <i>Applied Catalysis B: Environmental</i> , 2017 , 209, 155-160	21.8	48
27	A novel highly active nanostructured IrO_2/Ti anode for water oxidation. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 14279-14283	6.7	48
26	A metal-free visible light active photo-electro-Fenton-like cell for organic pollutants degradation. <i>Applied Catalysis B: Environmental</i> , 2018 , 229, 211-217	21.8	39
25	The Role of Dimethylammonium Iodide in CsPbI_3 Perovskite Fabrication: Additive or Dopant?. <i>Angewandte Chemie</i> , 2019 , 131, 16844-16849	3.6	32
24	Binderless and Oxygen Vacancies Rich FeNi /Graphitized Mesoporous Carbon/ Ni Foam for Electrocatalytic Reduction of Nitrate. <i>Environmental Science & Technology</i> , 2020 , 54, 13344-13353	10.3	32
23	A highly efficient nanoporous BiVO_4 photoelectrode with enhanced interface charge transfer Co-catalyzed by molecular catalyst. <i>Applied Catalysis B: Environmental</i> , 2018 , 225, 504-511	21.8	29
22	Photostability of MAPbI_3 Perovskite Solar Cells by Incorporating Black Phosphorus. <i>Solar Rrl</i> , 2019 , 3, 1900197	7.1	28
21	Highly photocatalytic active thiomolybdate $[\text{Mo}_3\text{S}_{13}]_2$ clusters/ BiOBr nanocomposite with enhanced sulfur tolerance. <i>Applied Catalysis B: Environmental</i> , 2016 , 183, 1-7	21.8	28
20	Highly Active IrO_x Nanoparticles/Black Si Electrode for Efficient Water Splitting with Conformal TiO_2 Interface Engineering. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 10940-10946	8.3	22

19	Phosphorus-doped Isotype g-C ₃ N ₄ /g-C ₃ N ₄ : An Efficient Charge Transfer System for Photoelectrochemical Water Oxidation. <i>ChemCatChem</i> , 2019 , 11, 729-736	5.2	22
18	Integration of a functionalized graphene nano-network into a planar perovskite absorber for high-efficiency large-area solar cells. <i>Materials Horizons</i> , 2018 , 5, 868-873	14.4	21
17	[Mo ₃ S ₁₃] ₂ modified TiO ₂ coating on non-woven fabric for efficient photocatalytic mineralization of acetone. <i>Applied Catalysis B: Environmental</i> , 2019 , 245, 190-196	21.8	17
16	Highly Efficient (110) Orientated FA-MA Mixed Cation Perovskite Solar Cells via Functionalized Carbon Nanotube and Methylammonium Chloride Additive. <i>Small Methods</i> , 2020 , 4, 1900511	12.8	13
15	Brand new 1D branched CuO nanowire arrays for efficient photoelectrochemical water reduction. <i>Dalton Transactions</i> , 2018 , 47, 14566-14572	4.3	12
14	2-Aminobenzenethiol-Functionalized Silver-Decorated Nanoporous Silicon Photoelectrodes for Selective CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11462-11469	16.4	11
13	A Tandem Water Splitting Cell Based on Nanoporous BiVO ₄ Photoanode Cocatalyzed by Ultrasmall Cobalt Borate Sandwiched with Conformal TiO ₂ Layers. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16228-16234	8.3	11
12	Highly photocatalytic active thiomolybdate [Mo ₃ S ₁₃] ₂ clusters/Bi ₂ WO ₆ nanocomposites. <i>Catalysis Today</i> , 2016 , 274, 22-27	5.3	10
11	Photoelectrochemical reduction of nitrates with visible light by nanoporous Si photoelectrode. <i>Electrochimica Acta</i> , 2015 , 177, 366-369	6.7	9
10	Stable Cesium-Rich Formamidinium/Cesium Pure-Iodide Perovskites for Efficient Photovoltaics. <i>ACS Energy Letters</i> , 2021 , 6, 2735-2741	20.1	9
9	High performance nanoporous silicon photoelectrodes co-catalyzed with an earth abundant [Mo ₃ S ₁₃] ₂ nanocluster via drop coating. <i>RSC Advances</i> , 2016 , 6, 15610-15614	3.7	7
8	Photodeposited FeOOH vs electrodeposited Co-Pi to enhance nanoporous BiVO ₄ for photoelectrochemical water splitting. <i>Journal of Semiconductors</i> , 2017 , 38, 053004	2.3	7
7	2-Aminobenzenethiol-Functionalized Silver-Decorated Nanoporous Silicon Photoelectrodes for Selective CO ₂ Reduction. <i>Angewandte Chemie</i> , 2020 , 132, 11559-11566	3.6	4
6	Electrochemical Methane Conversion. <i>Small Structures</i> , 2021 , 2, 2100037	8.7	4
5	The ClO ₂ generation and chlorate suppression in photoelectrochemical reactive chlorine species systems on BiVO ₄ photoanodes. <i>Applied Catalysis B: Environmental</i> , 2021 , 296, 120387	21.8	4
4	Defect-Assisted Electron Tunneling for Photoelectrochemical CO ₂ Reduction to Ethanol at Low Overpotentials. <i>Advanced Energy Materials</i> , 2021 , 11, 2201134	21.8	4
3	MA Cation-Induced Diffusional Growth of Low-Bandgap FA-Cs Perovskites Driven by Natural Gradient Annealing. <i>Research</i> , 2021 , 2021, 9765106	7.8	2
2	System Engineering Enhances Photoelectrochemical CO ₂ Reduction. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1689-1700	3.8	1

1 Electroreduction of air-level CO₂ with high conversion efficiency. *Chinese Journal of Catalysis*, **2022**, 43, 1703-1709

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