

Miao Kan

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.

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	System Engineering Enhances Photoelectrochemical CO ₂ Reduction. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1689-1700	3.8	1
35	Electroreduction of air-level CO ₂ with high conversion efficiency. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1703-1709	11.3	1
34	Electrochemical Methane Conversion. <i>Small Structures</i> , 2021 , 2, 2100037	8.7	4
33	Stable Cesium-Rich Formamidinium/Cesium Pure-Iodide Perovskites for Efficient Photovoltaics. <i>ACS Energy Letters</i> , 2021 , 6, 2735-2741	20.1	9
32	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
31	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
30	2-Aminobenzenethiol-Functionalized Silver-Decorated Nanoporous Silicon Photoelectrodes for Selective CO ₂ Reduction. <i>Angewandte Chemie</i> , 2020 , 132, 11559-11566	3.6	4
29	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
28	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
27	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
26	Photostability of MAPbI ₃ Perovskite Solar Cells by Incorporating Black Phosphorus. <i>Solar Rrl</i> , 2019 , 3, 1900197	7.1	28
25	Thermodynamically stabilized ECsPbI-based perovskite solar cells with efficiencies >18. <i>Science</i> , 2019 , 365, 591-595	33.3	644
24	The Role of Dimethylammonium Iodide in CsPbI Perovskite Fabrication: Additive or Dopant?. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16691-16696	16.4	264
23	The Role of Dimethylammonium Iodide in CsPbI ₃ Perovskite Fabrication: Additive or Dopant?. <i>Angewandte Chemie</i> , 2019 , 131, 16844-16849	3.6	32
22	[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
21	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
20	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

19	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
18	Efficient CsPbI_3 Photovoltaics with Surface Terminated Organic Cations. <i>Joule</i> , 2018 , 2, 2065-2075	27.8	210
17	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
16	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
15	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
14	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
13	Brand new 1D branched CuO nanowire arrays for efficient photoelectrochemical water reduction. <i>Dalton Transactions</i> , 2018 , 47, 14566-14572	4.3	12
12	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
11	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
10	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
9	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
8	High performance nanoporous silicon photoelectrodes co-catalyzed with an earth abundant $[\text{Mo}_3\text{S}_{13}]_2$ nanocluster via drop coating. <i>RSC Advances</i> , 2016 , 6, 15610-15614	3.7	7
7	Highly photocatalytic active thiomolybdate $[\text{Mo}_3\text{S}_{13}]_2$ clusters/ Bi_2WO_6 nanocomposites. <i>Catalysis Today</i> , 2016 , 274, 22-27	5.3	10
6	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
5	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
4	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
3	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
2	Photoelectrochemical reduction of nitrates with visible light by nanoporous Si photoelectrode. <i>Electrochimica Acta</i> , 2015 , 177, 366-369	6.7	9

- 1 Defect-Assisted Electron Tunneling for Photoelectrochemical CO₂ Reduction to Ethanol at Low Overpotentials. *Advanced Energy Materials*, 2021, 11, 2101134

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