Miao Kan

List of Publications by Year
in descending order

38 papers	3,768 citations	279798 23 h-index	315739 38 g-index
40 all docs	40 docs citations	40 times ranked	4431 citing authors

#	Article	IF	Citations
1	Thermodynamically stabilized Î²-CsPbI ₃ â€“based perovskite solar cells with efficiencies >18%. Science, 2019, 365, 591-595.	12.6	963
2	Bifunctional Stabilization of All-Inorganic Î±-CsPbI₃ Perovskite for 17% Efficiency Photovoltaics. Journal of the American Chemical Society, 2018, 140, 12345-12348.	13.7	565
3	The Role of Dimethylammonium Iodide in CsPbI₃ Perovskite Fabrication: Additive or Dopant?. Angewandte Chemie - International Edition, 2019, 58, 16691-16696.	13.8	407
4	Efficient Î±-CsPbI3 Photovoltaics with Surface Terminated Organic Cations. Joule, 2018, 2, 2065-2075.	24.0	280
5	Carbon quantum dots decorated Bi2WO6 nanocomposite with enhanced photocatalytic oxidation activity for VOCs. Applied Catalysis B: Environmental, 2016, 193, 16-21.	20.2	247
6	FeOOH quantum dots coupled g-C3N4 for visible light driving photo- Fenton degradation of organic pollutants. Applied Catalysis B: Environmental, 2018, 237, 513-520.	20.2	231
7	Hydrophilic mesoporous carbon as iron(III)/(II) electron shuttle for visible light enhanced Fenton-like degradation of organic pollutants. Applied Catalysis B: Environmental, 2018, 231, 108-114.	20.2	108
8	Binderless and Oxygen Vacancies Rich FeNi/Graphitized Mesoporous Carbon/Ni Foam for Electrocatalytic Reduction of Nitrate. Environmental Science & Technology, 2020, 54, 13344-13353.	10.0	106
9	The Role of Dimethylammonium Iodide in CsPbI₃ Perovskite Fabrication: Additive or Dopant?. Angewandte Chemie, 2019, 131, 16844-16849.	2.0	90
10	Sulfurated [NiFe]-based layered double hydroxides nanoparticles as efficient co-catalysts for photocatalytic hydrogen evolution using CdTe/CdS quantum dots. Applied Catalysis B: Environmental, 2017, 209, 155-160.	20.2	66
11	CdTe/CdS Core/Shell Quantum Dots Cocatalyzed by Sulfur Tolerant [Mo₃S₁₃]^{2â€“} Nanoclusters for Efficient Visible-Light-Driven Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2016, 4, 6653-6658.	6.7	61
12	A metal-free visible light active photo-electro-Fenton-like cell for organic pollutants degradation. Applied Catalysis B: Environmental, 2018, 229, 211-217.	20.2	58
13	Photostability of MAPbI₃ Perovskite Solar Cells by Incorporating Black Phosphorus. Solar Rrl, 2019, 3, 1900197.	5.8	53
14	A novel highly active nanostructured IrO 2 /Ti anode for water oxidation. International Journal of Hydrogen Energy, 2015, 40, 14279-14283.	7.1	52
15	Phosphorusâ€doped Isotype gâ€C₃N₄/gâ€C₃N₄: An Efficient Charge Transfer System for Photoelectrochemical Water Oxidation. ChemCatChem, 2019, 11, 729-736.	3.7	42
16	A highly efficient nanoporous BiVO4 photoelectrode with enhanced interface charge transfer Co-catalyzed by molecular catalyst. Applied Catalysis B: Environmental, 2018, 225, 504-511.	20.2	40
17	Highly photocatalytic active thiomolybdate [Mo 3 S 13] 2â^' clusters/BiOBr nanocomposite with enhanced sulfur tolerance. Applied Catalysis B: Environmental, 2016, 183, 1-7.	20.2	35
18	Stable Cesium-Rich Formamidinium/Cesium Pure-Iodide Perovskites for Efficient Photovoltaics. ACS Energy Letters, 2021, 6, 2735-2741.	17.4	31

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19	[Mo3S13]2â˜ modified TiO2 coating on non-woven fabric for efficient photocatalytic mineralization of acetone. Applied Catalysis B: Environmental, 2019, 245, 190-196.	20.2	30
20	Highly Active IrO_x Nanoparticles/Black Si Electrode for Efficient Water Splitting with Conformal TiO₂ Interface Engineering. ACS Sustainable Chemistry and Engineering, 2017, 5, 10940-10946.	6.7	27
21	Defectâ€Assisted Electron Tunneling for Photoelectrochemical CO₂ Reduction to Ethanol at Low Overpotentials. Advanced Energy Materials, 2022, 12, .	19.5	27
22	A Tandem Water Splitting Cell Based on Nanoporous BiVO₄ Photoanode Cocatalyzed by Ultrasmall Cobalt Borate Sandwiched with Conformal TiO₂ Layers. ACS Sustainable Chemistry and Engineering, 2018, 6, 16228-16234.	6.7	25
23	Integration of a functionalized graphene nano-network into a planar perovskite absorber for high-efficiency large-area solar cells. Materials Horizons, 2018, 5, 868-873.	12.2	25
24	Highly Efficient (110) Orientated FAâ€MA Mixed Cation Perovskite Solar Cells via Functionalized Carbon Nanotube and Methylammonium Chloride Additive. Small Methods, 2020, 4, 1900511.	8.6	25
25	2â€Aminobenzenethiolâ€Functionalized Silverâ€Decorated Nanoporous Silicon Photoelectrodes for Selective CO₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 11462-11469.	13.8	24
26	The ClOÂ· generation and chlorate suppression in photoelectrochemical reactive chlorine species systems on BiVO4 photoanodes. Applied Catalysis B: Environmental, 2021, 296, 120387.	20.2	24
27	System Engineering Enhances Photoelectrochemical CO₂ Reduction. Journal of Physical Chemistry C, 2022, 126, 1689-1700.	3.1	23
28	Electrochemical Methane Conversion. Small Structures, 2021, 2, 2100037.	12.0	15
29	Brand new 1D branched CuO nanowire arrays for efficient photoelectrochemical water reduction. Dalton Transactions, 2018, 47, 14566-14572.	3.3	14
30	Highly photocatalytic active thiomolybdate [Mo 3 S 13] 2â˜ clusters/Bi 2 WO 6 nanocomposites. Catalysis Today, 2016, 274, 22-27.	4.4	13
31	Photoelectrochemical reduction of nitrates with visible light by nanoporous Si photoelectrode. Electrochimica Acta, 2015, 177, 366-369.	5.2	11
32	Photocatalytic CO₂conversion: from C1 products to multi-carbon oxygenates. Nanoscale, 2022, 14, 10268-10285.	5.6	11
33	High performance nanoporous silicon photoelectrodes co-catalyzed with an earth abundant [Mo₃S₁₃]^{2â˜} nanocluster via drop coating. RSC Advances, 2016, 6, 15610-15614.	3.6	10
34	Photodeposited FeOOH vs electrodeposited Co-Pi to enhance nanoporous BiVO₄for photoelectrochemical water splitting. Journal of Semiconductors, 2017, 38, 053004.	3.7	8
35	MA Cation-Induced Diffusional Growth of Low-Bandgap FA-Cs Perovskites Driven by Natural Gradient Annealing. Research, 2021, 2021, 9765106.	5.7	8
36	2â€Aminobenzenethiolâ€Functionalized Silverâ€Decorated Nanoporous Silicon Photoelectrodes for Selective CO 2 Reduction. Angewandte Chemie, 2020, 132, 11559-11566.	2.0	6

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37	Electroreduction of air-level CO2 with high conversion efficiency. Chinese Journal of Catalysis, 2022, 43, 1703-1709.	14.0	6
38	Solution chemistry quasi-epitaxial growth of atomic CaTiO3 perovskite layers to stabilize and passivate TiO2 photoelectrodes for efficient water splitting. Fundamental Research, 2023, 3, 918-925.	3.3	1