

Miao Kan

List of Publications by Year in descending order

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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	Solution chemistry quasi-epitaxial growth of atomic CaTiO ₃ perovskite layers to stabilize and passivate TiO ₂ photoelectrodes for efficient water splitting. <i>Fundamental Research</i> , 2023, 3, 918-925.	3.3	1
2	System Engineering Enhances Photoelectrochemical CO ₂ Reduction. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1689-1700.	3.1	23
3	Defect-Assisted Electron Tunneling for Photoelectrochemical CO ₂ Reduction to Ethanol at Low Overpotentials. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	27
4	Electroreduction of air-level CO ₂ with high conversion efficiency. <i>Chinese Journal of Catalysis</i> , 2022, 43, 1703-1709.	14.0	6
5	Photocatalytic CO ₂ conversion: from C ₁ products to multi-carbon oxygenates. <i>Nanoscale</i> , 2022, 14, 10268-10285.	5.6	11
6	Electrochemical Methane Conversion. <i>Small Structures</i> , 2021, 2, 2100037.	12.0	15
7	Stable Cesium-Rich Formamidinium/Cesium Pure-Iodide Perovskites for Efficient Photovoltaics. <i>ACS Energy Letters</i> , 2021, 6, 2735-2741.	17.4	31
8	MA Cation-Induced Diffusional Growth of Low-Bandgap FA-Cs Perovskites Driven by Natural Gradient Annealing. <i>Research</i> , 2021, 2021, 9765106.	5.7	8
9	The ClO ⁻ generation and chlorate suppression in photoelectrochemical reactive chlorine species systems on BiVO ₄ photoanodes. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120387.	20.2	24
10	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.	8.6	25
11	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.	10.0	106
12	2-Aminobenzenethiol-Functionalized Silver-Decorated Nanoporous Silicon Photoelectrodes for Selective CO ₂ Reduction. <i>Angewandte Chemie</i> , 2020, 132, 11559-11566.	2.0	6
13	2-Aminobenzenethiol-Functionalized Silver-Decorated Nanoporous Silicon Photoelectrodes for Selective CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11462-11469.	13.8	24
14	Thermodynamically stabilized I^{2-} -CsPbI ₃ -based perovskite solar cells with efficiencies >18%. <i>Science</i> , 2019, 365, 591-595.	12.6	963
15	The Role of Dimethylammonium Iodide in CsPbI ₃ Perovskite Fabrication: Additive or Dopant?. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16691-16696.	13.8	407
16	The Role of Dimethylammonium Iodide in CsPbI ₃ Perovskite Fabrication: Additive or Dopant?. <i>Angewandte Chemie</i> , 2019, 131, 16844-16849.	2.0	90
17	Photostability of MAPbI ₃ Perovskite Solar Cells by Incorporating Black Phosphorus. <i>Solar Rrl</i> , 2019, 3, 1900197.	5.8	53
18	[MoS 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.	20.2	30

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19	Phosphorus-doped Isotype $\text{g-C}_3\text{N}_4/\text{g-C}_3\text{N}_4$: An Efficient Charge Transfer System for Photoelectrochemical Water Oxidation. <i>ChemCatChem</i> , 2019, 11, 729-736.	3.7	42
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.	20.2	108
21	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.	20.2	58
22	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.	20.2	40
23	Bifunctional Stabilization of All-Inorganic CsPbI_3 Perovskite for 17% Efficiency Photovoltaics. <i>Journal of the American Chemical Society</i> , 2018, 140, 12345-12348.	13.7	565
24	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.	6.7	25
25	Brand new 1D branched CuO nanowire arrays for efficient photoelectrochemical water reduction. <i>Dalton Transactions</i> , 2018, 47, 14566-14572.	3.3	14
26	FeOOH quantum dots coupled $\text{g-C}_3\text{N}_4$ for visible light driving photo-Fenton degradation of organic pollutants. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 513-520.	20.2	231
27	Efficient CsPbI_3 Photovoltaics with Surface Terminated Organic Cations. <i>Joule</i> , 2018, 2, 2065-2075.	24.0	280
28	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.	12.2	25
29	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.	20.2	66
30	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.	6.7	27
31	Photodeposited FeOOH vs electrodeposited Co-Pi to enhance nanoporous BiVO_4 for photoelectrochemical water splitting. <i>Journal of Semiconductors</i> , 2017, 38, 053004.	3.7	8
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.	20.2	247
33	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.	6.7	61
34	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.	3.6	10
35	Highly photocatalytic active thiomolybdate $[\text{Mo}_3\text{S}_{13}]^{2+}$ clusters/ Bi_2WO_6 nanocomposites. <i>Catalysis Today</i> , 2016, 274, 22-27.	4.4	13
36	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.	20.2	35

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37	Photoelectrochemical reduction of nitrates with visible light by nanoporous Si photoelectrode. <i>Electrochimica Acta</i> , 2015, 177, 366-369.	5.2	11
38	A novel highly active nanostructured IrO ₂ /Ti anode for water oxidation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14279-14283.	7.1	52