Ze ai Huang

List of Publications by Citations

32 papers	1,176 citations	17 h-index	33 g-index
33 ext. papers	1,541 ext. citations	8.9 avg, IF	4.7 L-index

#	Paper	IF	Citations
32	Effect of contact interface between TiO2 and g-C3N4 on the photoreactivity of g-C3N4/TiO2 photocatalyst: (0 0 1) vs (1 0 1) facets of TiO2. *Applied Catalysis B: Environmental*, **2015**, 164, 420-427	21.8	386
31	Tuning the selectivity toward CO evolution in the photocatalytic conversion of CO2 with H2O through the modification of Ag-loaded Ga2O3 with a ZnGa2O4 layer. *Catalysis Science and Technology*, **2016**, 6, 1025-1032	5.5	73
30	Transformation of TiOF2 cube to a hollow nanobox assembly from anatase TiO2 nanosheets with exposed {001} facets via solvothermal strategy. *ACS Applied Materials & Interfaces*, **2013**, 5, 8663-9	9.5	71
29	Atomically dispersed Mo atoms on amorphous g-C3N4 promotes visible-light absorption and charge carriers transfer. *Applied Catalysis B: Environmental*, **2019**, 250, 273-279	21.8	57
28	Monolithic g-C3N4/reduced graphene oxide aerogel with in situ embedding of Pd nanoparticles for hydrogenation of CO2 to CH4. *Applied Surface Science*, **2019**, 475, 953-960	6.7	50
27	Interfacial Oxygen Vacancy Engineered Two-Dimensional g-C3N4/BiOCl Heterostructures with Boosted Photocatalytic Conversion of CO2. *ACS Applied Energy Materials*, **2020**, 3, 4610-4618	6.1	49
26	Modulating electron density of vacancy site by single Au atom for effective CO photoreduction. *Nature Communications*, **2021**, 12, 1675	17.4	48
25	Ti powder-assisted synthesis of Ti3+ self-doped TiO2 nanosheets with enhanced visible-light photoactivity. *RSC Advances*, **2014**, 4, 19588-19593	3.7	44
24	Which is an Intermediate Species for Photocatalytic Conversion of CO2 by H2O as the Electron Donor: CO2 Molecule, Carbonic Acid, Bicarbonate, or Carbonate Ions?. *Journal of Physical Chemistry C*, **2017**, 121, 8711-8721	3.8	43
23	B-O Bonds in Ultrathin Boron Nitride Nanosheets to Promote Photocatalytic Carbon Dioxide Conversion. *ACS Applied Materials & Interfaces*, **2020**, 12, 9935-9943	9.5	39
22	Facile preparation of Ti3+ self-doped TiO2 nanosheets with dominant {001} facets using zinc powder as reductant. *Journal of Alloys and Compounds*, **2014**, 601, 88-93	5.7	37
21	Enhancement of CO Evolution by Modification of GaO with Rare-Earth Elements for the Photocatalytic Conversion of CO by HO. *Langmuir*, **2017**, 33, 13929-13935	4	32
20	Fabrication of well-shaped Sr2KTa5O15 nanorods with a tetragonal tungsten bronze structure by a flux method for artificial photosynthesis. *Applied Catalysis B: Environmental*, **2016**, 199, 272-281	21.8	28
19	CO2 capture, storage, and conversion using a praseodymium-modified Ga2O3 photocatalyst. *Journal of Materials Chemistry A*, **2017**, 5, 19351-19357	13	25
18	N-Doped ordered mesoporous carbon grafted onto activated carbon fibre composites with enhanced activity for the electro-Fenton degradation of Brilliant Red X3B dye. *RSC Advances*, **2014**, 4, 60168-60175	3.7	19
17	Flux method fabrication of potassium rare-earth tantalates for CO2 photoreduction using H2O as an electron donor. *Catalysis Today*, **2018**, 300, 173-182	5.3	18
16	Insights into the Nonthermal Effects of Light in Dry Reforming of Methane to Enhance the H2/CO Ratio Near Unity over Ni/Ga2O3. *ACS Catalysis*, **2021**, 11, 4730-4738	13.1	18

List of Publications

15	Solar-light-driven photocatalytic production of peroxydisulfate over noble-metal loaded WO. *Chemical Communications*, **2019**, 55, 3813-3816	5.8	17
14	Effect of Pore Structure on the Electro-Fenton Activity of ACF@OMC Cathode. *Industrial & Engineering Chemistry Research*, **2015**, 54, 8492-8499	3.9	17
13	Ultrahigh surface density of Co-N2C single-atom-sites for boosting photocatalytic CO2 reduction to methanol. *Applied Catalysis B: Environmental*, **2022**, 300, 120695	21.8	14
12	Fabrication of TiO2 hollow microspheres by ammonia-induced self-transformation. *Journal of Alloys and Compounds*, **2014**, 612, 69-73	5.7	12
11	Recent progress in photocatalytic conversion of carbon dioxide over gallium oxide and its nanocomposites. *Current Opinion in Chemical Engineering*, **2018**, 20, 114-121	5.4	11
10	Metallic Pt and PtOx dual-cocatalyst-loaded WO3 for photocatalytic production of peroxydisulfate and hydrogen peroxide. *Journal of Materials Science*, **2020**, 55, 11829-11840	4.3	10
9	Mo Promotes Interfacial Interaction and Induces Oxygen Vacancies in 2D/2D of Mo-g-C3N4 and Bi2O2CO3 Photocatalyst for Enhanced NO Oxidation. *Industrial & Engineering Chemistry Research*, **2020**, 59, 9509-9518	3.9	9
8	Promotion of photocatalytic steam reforming of methane over Ag0/Ag+-SrTiO3. *Chinese Chemical Letters*, **2020**, 31, 1530-1534	8.1	9
7	Bi/BiOCl Nanosheets Enriched with Oxygen Vacancies to Enhance Photocatalytic CO2 Reduction. *Transactions of Tianjin University*, **2021**, 27, 155-164	2.9	8
6	Sodium Cation Substitution in SrKTaO toward Enhancement of Photocatalytic Conversion of CO Using HO as an Electron Donor. *ACS Omega*, **2017**, 2, 8187-8197	3.9	7
5	Photocatalytic Conversion of Carbon Dioxide over A2BTa5O15 (A = Sr, Ba; B = K, Na) Using Ammonia as an Efficient Sacrificial Reagent. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 8247-8255	8.2	7
4	Efficient photocatalytic carbon monoxide production from ammonia and carbon dioxide by the aid of artificial photosynthesis. *Chemical Science*, **2017**, 8, 5797-5801	9.4	6
3	Important Role of Strontium Atom on the Surface of SrKTaO with a Tetragonal Tungsten Bronze Structure to Improve Adsorption of CO for Photocatalytic Conversion of CO by HO. *ACS Applied Materials & Interfaces*, **2019**, 11, 37875-37884	9.5	6
2	Dual-Function Reaction Center for Simultaneous Activation of CH and O via Oxygen Vacancies during Direct Selective Oxidation of CH into CHOH. *ACS Applied Materials & Interfaces*, **2021**, 13, 46694-46702	9.5	2
1	Intermolecular hydrogen bond modulating the selective coupling of protons and CO2 to CH4 over nitrogen-doped carbon layers modified cobalt. *Chemical Engineering Journal*, **2022**, 444, 136585	14.7	2