Ze'ai Huang

List of Publications by Year
in descending order

33	1,900	304368 22	395343 33
papers	citations	h-index	g-index

33	33	33	2219
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	10.8	461
2	Modulating electron density of vacancy site by single Au atom for effective CO2 photoreduction. Nature Communications, 2021, 12, 1675.	5.8	178
3	Interfacial Oxygen Vacancy Engineered Two-Dimensional g-C₃N₄/BiOCl Heterostructures with Boosted Photocatalytic Conversion of CO₂. ACS Applied Energy Materials, 2020, 3, 4610-4618.	2.5	97
4	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.	2.1	94
5	Atomically dispersed Mo atoms on amorphous g-C3N4 promotes visible-light absorption and charge carriers transfer. Applied Catalysis B: Environmental, 2019, 250, 273-279.	10.8	92
6	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, 8663-8669.	4.0	87
7	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.	5.5	80
8	Ultrahigh surface density of Co-N2C single-atom-sites for boosting photocatalytic CO2 reduction to methanol. Applied Catalysis B: Environmental, 2022, 300, 120695.	10.8	80
9	Bâ€“O Bonds in Ultrathin Boron Nitride Nanosheets to Promote Photocatalytic Carbon Dioxide Conversion. ACS Applied Materials & Interfaces, 2020, 12, 9935-9943.	4.0	76
10	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.	3.1	69
11	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.	1.5	54
12	Ti powder-assisted synthesis of Ti³⁺ self-doped TiO₂ nanosheets with enhanced visible-light photoactivity. RSC Advances, 2014, 4, 19588-19593.	1.7	53
13	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.	2.8	51
14	Bi/BiOCl Nanosheets Enriched with Oxygen Vacancies to Enhance Photocatalytic CO2 Reduction. Transactions of Tianjin University, 2021, 27, 155-164.	3.3	44
15	Enhancement of CO Evolution by Modification of Ga₂O₃ with Rare-Earth Elements for the Photocatalytic Conversion of CO₂ by H₂O. Langmuir, 2017, 33, 13929-13935.	1.6	43
16	CO₂ capture, storage, and conversion using a praseodymium-modified Ga₂O₃ photocatalyst. Journal of Materials Chemistry A, 2017, 5, 19351-19357.	5.2	38
17	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.	10.8	34
18	Promotion of photocatalytic steam reforming of methane over Ag0/Ag+-SrTiO3. Chinese Chemical Letters, 2020, 31, 1530-1534.	4.8	31

#	Article	IF	Citations
19	Metallic Pt and PtOx dual-cocatalyst-loaded WO3 for photocatalytic production of peroxydisulfate and hydrogen peroxide. Journal of Materials Science, 2020, 55, 11829-11840.	1.7	25
20	Flux method fabrication of potassium rare-earth tantalates for CO2 photoreduction using H2O as an electron donor. Catalysis Today, 2018, 300, 173-182.	2.2	24
21	Effect of Pore Structure on the Electro-Fenton Activity of ACF@OMC Cathode. Industrial & Engineering Chemistry Research, 2015, 54, 8492-8499.	1.8	23
22	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.	1.7	22
23	Solar-light-driven photocatalytic production of peroxydisulfate over noble-metal loaded WO₃. Chemical Communications, 2019, 55, 3813-3816.	2.2	20
24	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.	1.8	20
25	Dual-Function Reaction Center for Simultaneous Activation of CH₄ and O₂ via Oxygen Vacancies during Direct Selective Oxidation of CH₄ into CH₃OH. ACS Applied Materials & Interfaces, 2021, 13, 46694-46702.	4.0	17
26	Recent progress in photocatalytic conversion of carbon dioxide over gallium oxide and its nanocomposites. Current Opinion in Chemical Engineering, 2018, 20, 114-121.	3.8	15
27	Fabrication of TiO2 hollow microspheres by ammonia-induced self-transformation. Journal of Alloys and Compounds, 2014, 612, 69-73.	2.8	13
28	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.	6.6	12
29	Sodium Cation Substitution in Sr₂KTa₅O₁₅ toward Enhancement of Photocatalytic Conversion of CO₂ Using H₂O as an Electron Donor. ACS Omega, 2017, 2, 8187-8197.	1.6	11
30	Regulating the Spin State of Single Noble Metal Atoms by Hydroxyl for Selective Dehydrogenation of CH₄ Direct Conversion to CH₃OH. ACS Applied Materials & Interfaces, 2022, 14, 13344-13351.	4.0	10
31	Efficient photocatalytic carbon monoxide production from ammonia and carbon dioxide by the aid of artificial photosynthesis. Chemical Science, 2017, 8, 5797-5801.	3.7	9
32	Important Role of Strontium Atom on the Surface of Sr₂KTa₅O₁₅ with a Tetragonal Tungsten Bronze Structure to Improve Adsorption of CO₂ for Photocatalytic Conversion of CO₂ by H₂O. ACS Applied Materials & Interfaces, 2019, 11, 37875-37884.	4.0	9
33	Photocatalytic Conversion of Carbon Dioxide over A₂BTa₅O₁₅ (A) Tj ETQq1 1 0.784314 rgBT O Engineering, 2018, 6, 8247-8255.	3.2	8