

Heng Rao

List of Publications by Year in descending order

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28
papers

2,061
citations

430874

18
h-index

501196

28
g-index

28
all docs

28
docs citations

28
times ranked

2620
citing authors

#	ARTICLE	IF	CITATIONS
1	Visible-light-driven methane formation from CO ₂ with a molecular iron catalyst. <i>Nature</i> , 2017, 548, 74-77.	27.8	730
2	3D Hierarchical ZnIn ₂ S ₄ Nanosheets with Rich Zn Vacancies Boosting Photocatalytic CO ₂ Reduction. <i>Advanced Functional Materials</i> , 2019, 29, 1905153.	14.9	308
3	Visible-Light-Driven Conversion of CO ₂ to CH ₄ with an Organic Sensitizer and an Iron Porphyrin Catalyst. <i>Journal of the American Chemical Society</i> , 2018, 140, 17830-17834.	13.7	150
4	Perovskite Quantum Dots Encapsulated in a Mesoporous Metal-Organic Framework as Synergistic Photocathode Materials. <i>Journal of the American Chemical Society</i> , 2021, 143, 14253-14260.	13.7	118
5	Platinum- and CuO-decorated TiO ₂ Photocatalyst for Oxidative Coupling of Methane to C ₂ Hydrocarbons in a Flow Reactor. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19702-19707.	13.8	106
6	Non-sensitized selective photochemical reduction of CO ₂ to CO under visible light with an iron molecular catalyst. <i>Chemical Communications</i> , 2017, 53, 2830-2833.	4.1	100
7	Visible-light Homogeneous Photocatalytic Conversion of CO ₂ into CO in Aqueous Solutions with an Iron Catalyst. <i>ChemSusChem</i> , 2017, 10, 4447-4450.	6.8	83
8	Carbon dioxide photo/electroreduction with cobalt. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16622-16642.	10.3	59
9	Electrochemical and Photochemical Reduction of CO ₂ Catalyzed by Re(I) Complexes Carrying Local Proton Sources. <i>Organometallics</i> , 2019, 38, 1351-1360.	2.3	48
10	Functionalization of Zirconium-Based Metal-Organic Layers with Tailored Pore Environments for Heterogeneous Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18224-18228.	13.8	44
11	Dual-Functional Photocatalysis for Cooperative Hydrogen Evolution and Benzylamine Oxidation Coupling over Sandwiched-Like Pd@TiO ₂ @ZnIn ₂ S ₄ Nanobox. <i>Small</i> , 2022, 18, e2105114.	10.0	40
12	Toward Visible-Light Photochemical CO ₂ -to-CH ₄ Conversion in Aqueous Solutions Using Sensitized Molecular Catalysis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13834-13839.	3.1	38
13	Highly efficient photocatalytic hydrogen evolution from nickel quinolinethiolate complexes under visible light irradiation. <i>Journal of Power Sources</i> , 2016, 324, 253-260.	7.8	34
14	Photocatalytic hydrogen evolution from a cobalt/nickel complex with dithiolene ligands under irradiation with visible light. <i>Catalysis Science and Technology</i> , 2015, 5, 2332-2339.	4.1	30
15	Spatially Separated Bifunctional Cocatalysts Decorated on Hollow-Structured TiO ₂ for Enhanced Photocatalytic Hydrogen Generation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23356-23362.	8.0	28
16	Photocatalytic H ₂ generation based on noble-metal-free binuclear cobalt complexes using visible-light. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16665.	2.8	21
17	Platinum- and CuO-decorated TiO ₂ Photocatalyst for Oxidative Coupling of Methane to C ₂ Hydrocarbons in a Flow Reactor. <i>Angewandte Chemie</i> , 2020, 132, 19870-19875.	2.0	19
18	Spatially separated bimetallic cocatalysts on hollow-structured TiO ₂ for photocatalytic hydrogen generation. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1671-1678.	5.9	19

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19	Rapid removal of Sr ²⁺ , Cs ⁺ and UO ₂ ²⁺ from solution with surfactant and amino acid modified zeolite Y. Microporous and Mesoporous Materials, 2020, 302, 110244.	4.4	14
20	Synthesis of a new iron-sulfur cluster compound and its photocatalytic H ₂ evolution activity through visible light irradiation. Applied Organometallic Chemistry, 2016, 30, 638-644.	3.5	12
21	Synthesis, electrochemical property and photocatalytic H ₂ evolution of a novel binuclear complex under irradiation of visible light. Solar Energy, 2014, 105, 648-655.	6.1	10
22	Critical Aspects of Metal-Organic Framework-Based Materials for Solar-Driven CO ₂ Reduction into Valuable Fuels. Global Challenges, 2021, 5, 2000082.	3.6	9
23	Bioinspired spike-like double yolk-shell structured TiO ₂ @ZnIn ₂ S ₄ for efficient photocatalytic CO ₂ reduction. Catalysis Science and Technology, 2022, 12, 1092-1099.	4.1	9
24	H ₂ Generation from a homogeneous photocatalytic system containing noble-metal-free Co(II) complex under the irradiation of visible light. International Journal of Energy Research, 2014, 38, 2003-2009.	4.5	7
25	Synthesis and photo-catalytic H ₂ evolution of three novel biomimetic photocatalysts based on [FeFe]-Hases model compound. Journal of Power Sources, 2015, 273, 1038-1047.	7.8	7
26	Functionalization of Zirconium-Based Metal-Organic Layers with Tailored Pore Environments for Heterogeneous Catalysis. Angewandte Chemie, 2020, 132, 18381-18385.	2.0	7
27	Photocatalytic H ₂ generation based on noble-metal-free Co(II) photocatalyst under visible-light-driven. Journal of the Energy Institute, 2015, 88, 359-363.	5.3	6
28	Bioinspired Self-Supporting Phthalocyanine@ZnIn ₂ S ₄ Foam for Photocatalytic CO ₂ Reduction Under Visible Light Irradiation. Advanced Energy and Sustainability Research, 2022, 3, .	5.8	5