

Hui Song

List of Publications by Year in descending order

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papers

4,045
citations

172457

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265206

42
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42
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3817
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoassisted Construction of Holey Defective $g\text{-C}_3\text{N}_4$ Photocatalysts for Efficient Visible-Light-Driven H_2O_2 Production. <i>Small</i> , 2018, 14, 1703142.	10.0	353
2	Coupling of Solar Energy and Thermal Energy for Carbon Dioxide Reduction: Status and Prospects. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8016-8035.	13.8	323
3	Direct and Selective Photocatalytic Oxidation of CH_4 to Oxygenates with O_2 on Cocatalysts/ZnO at Room Temperature in Water. <i>Journal of the American Chemical Society</i> , 2019, 141, 20507-20515.	13.7	253
4	Solar-Energy-Mediated Methane Conversion. <i>Joule</i> , 2019, 3, 1606-1636.	24.0	252
5	Solar-Driven Hydrogen Production: Recent Advances, Challenges, and Future Perspectives. <i>ACS Energy Letters</i> , 2022, 7, 1043-1065.	17.4	247
6	Selective light absorber-assisted single nickel atom catalysts for ambient sunlight-driven CO_2 methanation. <i>Nature Communications</i> , 2019, 10, 2359.	12.8	185
7	Light-Enhanced Carbon Dioxide Activation and Conversion by Effective Plasmonic Coupling Effect of Pt and Au Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 408-416.	8.0	179
8	Synthesis of Fe-doped WO_3 nanostructures with high visible-light-driven photocatalytic activities. <i>Applied Catalysis B: Environmental</i> , 2015, 166-167, 112-120.	20.2	175
9	A selective Au-ZnO/ TiO_2 hybrid photocatalyst for oxidative coupling of methane to ethane with dioxygen. <i>Nature Catalysis</i> , 2021, 4, 1032-1042.	34.4	156
10	Photo-assisted methanol synthesis via CO_2 reduction under ambient pressure over plasmonic Cu/ZnO catalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 10-16.	20.2	142
11	In Situ Carbon Homogeneous Doping on Ultrathin Bismuth Molybdate: A Dual-Purpose Strategy for Efficient Molecular Oxygen Activation. <i>Advanced Functional Materials</i> , 2017, 27, 1703923.	14.9	136
12	Preparation of ZnFe_2O_4 nanostructures and highly efficient visible-light-driven hydrogen generation with the assistance of nanoheterostructures. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8353-8360.	10.3	135
13	Effective Formation of Oxygen Vacancies in Black TiO_2 Nanostructures with Efficient Solar-Driven Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8982-8987.	6.7	131
14	Efficient and selective photocatalytic CH_4 conversion to CH_3OH with O_2 by controlling overoxidation on TiO_2 . <i>Nature Communications</i> , 2021, 12, 4652.	12.8	131
15	Plasmonic photothermal catalysis for solar-to-fuel conversion: current status and prospects. <i>Chemical Science</i> , 2021, 12, 5701-5719.	7.4	129
16	Visible-Light-Mediated Methane Activation for Steam Methane Reforming under Mild Conditions: A Case Study of Rh/ TiO_2 Catalysts. <i>ACS Catalysis</i> , 2018, 8, 7556-7565.	11.2	126
17	Selective Photo-oxidation of Methane to Methanol with Oxygen over Dual-Cocatalyst-Modified Titanium Dioxide. <i>ACS Catalysis</i> , 2020, 10, 14318-14326.	11.2	114
18	Triggering Water and Methanol Activation for Solar-Driven H_2 Production: Interplay of Dual Active Sites over Plasmonic ZnCu Alloy. <i>Journal of the American Chemical Society</i> , 2021, 143, 12145-12153.	13.7	85

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19	A Full Compositional Range for a $(\text{Ga}_{1-x}\text{Zn}_x)(\text{N}_{1-x}\text{O}_x)$ Nanostructure: High Efficiency for Overall Water Splitting and Optical Properties. <i>Small</i> , 2015, 11, 871-876.	10.0	77
20	Enhancing photocatalytic activity for visible-light-driven H ₂ generation with the surface reconstructed LaTiO ₂ N nanostructures. <i>Nano Energy</i> , 2015, 12, 775-784.	16.0	62
21	A mesoporous non-precious metal boride system: synthesis of mesoporous cobalt boride by strictly controlled chemical reduction. <i>Chemical Science</i> , 2020, 11, 791-796.	7.4	58
22	Hemispherical shell-thin lamellar WS ₂ porous structures composited with CdS photocatalysts for enhanced H ₂ evolution. <i>Chemical Engineering Journal</i> , 2020, 388, 124346.	12.7	56
23	A Promising Application of Optical Hexagonal TaN in Photocatalytic Reactions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16781-16784.	13.8	55
24	Metal-organic framework-derived Ga-Cu/CeO ₂ catalyst for highly efficient photothermal catalytic CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120519.	20.2	55
25	Probing the role of nickel dopant in aqueous colloidal ZnS nanocrystals for efficient solar-driven CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 1013-1020.	20.2	50
26	Solar-driven production of hydrogen and acetaldehyde from ethanol on Ni-Cu bimetallic catalysts with solar-to-fuels conversion efficiency up to 3.8 %. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118965.	20.2	42
27	The crystalline/amorphous contact in Cu ₂ O/Ta ₂ O ₅ heterostructures: increasing its sunlight-driven overall water splitting efficiency. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2732-2738.	10.3	41
28	Fabrication of Fe ₂ TiO ₅ /TiO ₂ nanoheterostructures with enhanced visible-light photocatalytic activity. <i>RSC Advances</i> , 2016, 6, 45343-45348.	3.6	38
29	A new type of hybrid nanostructure: complete photo-generated carrier separation and ultrahigh photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14245-14250.	10.3	36
30	A new type of p-type NiO/n-type ZnO nano-heterojunctions with enhanced photocatalytic activity. <i>RSC Advances</i> , 2014, 4, 34649.	3.6	30
31	Light irradiation enhanced CO ₂ reduction with methane: A case study in size-dependent optical property of Ni nanoparticles. <i>Catalysis Today</i> , 2019, 335, 187-192.	4.4	29
32	Kopplung von Solarenergie und Wärmeenergie zur Kohlendioxidreduktion: Aktueller Stand und Perspektiven. <i>Angewandte Chemie</i> , 2020, 132, 8092-8111.	2.0	27
33	Engineering interfacial charge transfer channel for efficient photocatalytic H ₂ evolution: The interplay of CoPx and Ca ²⁺ dopant. <i>Applied Catalysis B: Environmental</i> , 2022, 303, 120887.	20.2	25
34	Rules for Selecting Metal Cocatalyst Based on Charge Transfer and Separation Efficiency between ZnO Nanoparticles and Noble Metal Cocatalyst Ag/ Au/ Pt. <i>ChemCatChem</i> , 2020, 12, 3838-3842.	3.7	24
35	Interfacial effect on Mn-doped TiO ₂ nanoparticles: from paramagnetism to ferromagnetism. <i>RSC Advances</i> , 2016, 6, 57403-57408.	3.6	18
36	Ultrahigh efficient water oxidation under visible light: Using Fe dopants to integrate nanostructure and cocatalyst in LaTiO ₂ N system. <i>Nano Energy</i> , 2016, 19, 437-445.	16.0	17

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37	Photothermal tandem catalysis for CO ₂ hydrogenation to methanol. <i>CheM</i> , 2022, 8, 1181-1183.	11.7	15
38	Interfacing Photosynthetic Membrane Protein with Mesoporous WO ₃ Photoelectrode for Solar Water Oxidation. <i>Small</i> , 2018, 14, e1800104.	10.0	14
39	Ambient sunlight-driven photothermal methanol dehydrogenation for syngas production with 32.9 % solar-to-hydrogen conversion efficiency. <i>IScience</i> , 2021, 24, 102056.	4.1	12
40	A Promising Application of Optical Hexagonal TaN in Photocatalytic Reactions. <i>Angewandte Chemie</i> , 2018, 130, 17023-17026.	2.0	7