Jier Huang

List of Publications by Year in descending order

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62 papers	4,429 citations	147801 31 h-index	123424 61 g-index
64 all docs	64 docs citations	64 times ranked	6237 citing authors

#	Article	IF	Citations
1	Tuning Photoexcited Charge Transfer in Imine-Linked Two-Dimensional Covalent Organic Frameworks. Journal of Physical Chemistry Letters, 2022, 13, 1398-1405.	4.6	16
2	Postsynthetic Treatment of ZIF-67 with 5-Methyltetrazole: Evolution from Pseudo-T_d to Pseudo-O_h Symmetry and Collapse of Magnetic Ordering. Inorganic Chemistry, 2022, 61, 6056-6062.	4.0	9
3	Synchrotron X-ray-induced Synthesis of Copper Hydroxide Nitrate Nanoplates on Cu Thin Films in an Ambient Atmosphere. ACS Applied Materials & Interfaces, 2022, 14, 23342-23347.	8.0	1
4	Impact of Ï€-Conjugation Length on the Excited-State Dynamics of Star-Shaped Carbazole-Ï€-Triazine Organic Chromophores. Journal of Physical Chemistry A, 2022, 126, 3291-3300.	2.5	2
5	Manipulating Coordination Structures of Mixed-Valence Copper Single Atoms on 1T-MoS₂ for Efficient Hydrogen Evolution. ACS Catalysis, 2022, 12, 7687-7695.	11.2	26
6	Iron(<scp>iii</scp>)-bipyridine incorporated metalâ€“organic frameworks for photocatalytic reduction of CO₂ with improved performance. Dalton Transactions, 2021, 50, 384-390.	3.3	30
7	Electron shuttle in the MOF derived TiO₂/CuO heterojunction boosts light driven hydrogen evolution. Journal of Materials Chemistry A, 2021, 9, 6180-6187.	10.3	28
8	Conjugation- and Aggregation-Directed Design of Covalent Organic Frameworks as White-Light-Emitting Diodes. Journal of the American Chemical Society, 2021, 143, 1061-1068.	13.7	75
9	In Situ Activated Co_{3â€“x}Ni_xO₄ as a Highly Active and Ultrastable Electrocatalyst for Hydrogen Generation. ACS Catalysis, 2021, 11, 8174-8182.	11.2	43
10	Zeolitic imidazolate frameworks as intrinsic light harvesting and charge separation materials for photocatalysis. Journal of Chemical Physics, 2021, 154, 240901.	3.0	11
11	2D Covalent Organic Frameworks with an Incorporated Manganese Complex for Light Driven Carbon Dioxide Reduction. ChemPhotoChem, 2021, 5, 1119-1123.	3.0	10
12	Photoinduced Charge Transport in Conductive Metal Organic Frameworks. , 2021, , .		0
13	Symmetry-Guided Synthesis of N,Nâ€²-Bicarbazole and Porphyrin-Based Mixed-Ligand Metalâ€“Organic Frameworks: Light Harvesting and Energy Transfer. Journal of the American Chemical Society, 2021, 143, 20411-20418.	13.7	37
14	Tuning Internal Strain in Metalâ€“Organic Frameworks via Vapor Phase Infiltration for CO 2 Reduction. Angewandte Chemie, 2020, 132, 4602-4610.	2.0	16
15	Tuning Internal Strain in Metalâ€“Organic Frameworks via Vapor Phase Infiltration for CO₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 4572-4580.	13.8	42
16	Site-Selective Probes of Mixed-Node Metal Organic Frameworks for Photocatalytic Hydrogen Generation. Journal of Physical Chemistry C, 2020, 124, 1405-1412.	3.1	16
17	Distance dependent energy transfer dynamics from a molecular donor to a zeolitic imidazolate framework acceptor. Physical Chemistry Chemical Physics, 2020, 22, 25445-25449.	2.8	6
18	Unravelling a long-lived ligand-to-metal cluster charge transfer state in Ceâ€“TCPP metal organic frameworks. Chemical Communications, 2020, 56, 13971-13974.	4.1	20

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19	Direct Evidence of Photoinduced Charge Transport Mechanism in 2D Conductive Metal Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 21050-21058.	13.7	76
20	Dynamic evolution and reversibility of single-atom Ni(II) active site in 1T-MoS2 electrocatalysts for hydrogen evolution. Nature Communications, 2020, 11, 4114.	12.8	112
21	Unraveling the Intermediate Species of Co₃O₄ Hollow Spheres for CO₂ Photoreduction by In Situ X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 6215-6220.	3.1	5
22	Enhanced light harvesting ability in zeolitic imidazolate frameworks through energy transfer from CdS nanowires. Physical Chemistry Chemical Physics, 2020, 22, 3849-3854.	2.8	6
23	Size Engineering of Metalâ€“Organic Framework MIL-101(Cr)â€“Ag Hybrids for Photocatalytic CO₂ Reduction. ACS Catalysis, 2019, 9, 8464-8470.	11.2	149
24	Selective Excited-State Dynamics in a Unique Set of Rationally Designed Ni Porphyrins. Journal of Physical Chemistry C, 2019, 123, 17994-18000.	3.1	8
25	Asynchronous Photoexcited Electronic and Structural Relaxation in Lead-Free Perovskites. Journal of the American Chemical Society, 2019, 141, 13074-13080.	13.7	39
26	Distribution and Valence State of Ru Species on CeO₂ Supports: Support Shape Effect and Its Influence on CO Oxidation. ACS Catalysis, 2019, 9, 11088-11103.	11.2	159
27	Atomically engineering activation sites onto metallic 1T-MoS2 catalysts for enhanced electrochemical hydrogen evolution. Nature Communications, 2019, 10, 982.	12.8	311
28	Composition effect on the carrier dynamics and catalytic performance of CuInS2/ZnS quantum dots for light driven hydrogen generation. Journal of Chemical Physics, 2019, 151, 214705.	3.0	8
29	Carbon Quantum Dot/TiO₂ Nanohybrids: Efficient Photocatalysts for Hydrogen Generation via Intimate Contact and Efficient Charge Separation. ACS Applied Nano Materials, 2019, 2, 1027-1032.	5.0	47
30	Elucidating Charge Separation Dynamics in a Hybrid Metalâ€“Organic Framework Photocatalyst for Light-Driven H₂ Evolution. Journal of Physical Chemistry C, 2018, 122, 3305-3311.	3.1	49
31	Real-Time Visualization of Active Species in a Single-Site Metalâ€“Organic Framework Photocatalyst. ACS Energy Letters, 2018, 3, 532-539.	17.4	69
32	Photoinduced interfacial charge separation dynamics in zeolitic imidazolate framework. Physical Chemistry Chemical Physics, 2018, 20, 14884-14888.	2.8	11
33	Unravelling the Correlation of Electronic Structure and Carrier Dynamics in CuInS2 Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 974-980.	3.1	18
34	Donorâ€“Acceptor Fluorophores for Energy-Transfer-Mediated Photocatalysis. Journal of the American Chemical Society, 2018, 140, 13719-13725.	13.7	174
35	2D Covalent Organic Frameworks as Intrinsic Photocatalysts for Visible Light-Driven CO₂ Reduction. Journal of the American Chemical Society, 2018, 140, 14614-14618.	13.7	461
36	Unveiling Charge-Separation Dynamics in CdS/Metalâ€“Organic Framework Composites for Enhanced Photocatalysis. ACS Catalysis, 2018, 8, 11615-11621.	11.2	262

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37	Mixed-Node Metalâ€“Organic Frameworks as Efficient Electrocatalysts for Oxygen Evolution Reaction. ACS Energy Letters, 2018, 3, 2520-2526.	17.4	252
38	Direct Observation of Node-to-Node Communication in Zeolitic Imidazolate Frameworks. Journal of the American Chemical Society, 2018, 140, 11573-11576.	13.7	32
39	Implicating the contributions of surface and bulk states on carrier trapping and photocurrent performance of BiVO₄ photoanodes. Physical Chemistry Chemical Physics, 2017, 19, 6831-6837.	2.8	15
40	Light-driven hydrogen production from aqueous solutions based on a new Dubois-type nickel catalyst. Physical Chemistry Chemical Physics, 2017, 19, 7471-7475.	2.8	9
41	Photoactive Zeolitic Imidazolate Framework as Intrinsic Heterogeneous Catalysts for Light-Driven Hydrogen Generation. ACS Energy Letters, 2017, 2, 75-80.	17.4	64
42	Exceptionally Robust CuInS₂/ZnS Nanoparticles as Single Component Photocatalysts for H₂ Evolution. Journal of Physical Chemistry C, 2017, 121, 19031-19035.	3.1	27
43	Mechanistic Probes of Zeolitic Imidazolate Framework for Photocatalytic Application. ACS Catalysis, 2017, 7, 8446-8453.	11.2	56
44	High-index faceted CuFeS₂ nanosheets with enhanced behavior for boosting hydrogen evolution reaction. Nanoscale, 2017, 9, 9230-9237.	5.6	70
45	Direct Observation of Photoinduced Charge Separation in Ruthenium Complex/Ni(OH)2 Nanoparticle Hybrid. Scientific Reports, 2016, 5, 18505.	3.3	6
46	The effect of Mo doping on the charge separation dynamics and photocurrent performance of BiVO₄ photoanodes. Physical Chemistry Chemical Physics, 2016, 18, 32820-32825.	2.8	31
47	Conformational States of Cytochrome P450 Oxidoreductase Evaluated by FÃ¶rster Resonance Energy Transfer Using Ultrafast Transient Absorption Spectroscopy. Biochemistry, 2016, 55, 5973-5976.	2.5	11
48	Exceptionally Long-Lived Charge Separated State in Zeolitic Imidazolate Framework: Implication for Photocatalytic Applications. Journal of the American Chemical Society, 2016, 138, 8072-8075.	13.7	155
49	Atomic Insight into the W-Doping Effect on Carrier Dynamics and Photoelectrochemical Properties of BiVO₄ Photoanodes. Journal of Physical Chemistry C, 2016, 120, 1421-1427.	3.1	81
50	The direct observation of charge separation dynamics in CdSe quantum dots/cobaloxime hybrids. Physical Chemistry Chemical Physics, 2016, 18, 4300-4303.	2.8	7
51	Ultrafast Hole Trapping and Relaxation Dynamics in p-Type CuS Nanodisks. Journal of Physical Chemistry Letters, 2015, 6, 2671-2675.	4.6	97
52	A strong steric hindrance effect on ground state, excited state, and charge separated state properties of a Cu^I-diimine complex captured by X-ray transient absorption spectroscopy. Dalton Transactions, 2014, 43, 17615-17623.	3.3	19
53	Domain structure for an amorphous iridium-oxide water-oxidation catalyst characterized by X-ray pair distribution function analysis. Physical Chemistry Chemical Physics, 2014, 16, 1814-1819.	2.8	39
54	Interrogating the photogenerated Ir(iv) state of a water oxidation catalyst using ultrafast optical and X-ray absorption spectroscopy. Chemical Science, 2013, 4, 3863.	7.4	29

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55	Highly Efficient Ultrafast Electron Injection from the Singlet MLCT Excited State of Copper(I) Diimine Complexes to TiO₂ Nanoparticles. Angewandte Chemie - International Edition, 2012, 51, 12711-12715.	13.8	85
56	Photodriven Charge Separation Dynamics in CdSe/ZnS Core/Shell Quantum Dot/Cobaloxime Hybrid for Efficient Hydrogen Production. Journal of the American Chemical Society, 2012, 134, 16472-16475.	13.7	249
57	Comparison of Electron-Transfer Dynamics from Coumarin 343 to TiO2, SnO2, and ZnO Nanocrystalline Thin Films: Role of Interface-Bound Charge-Separated Pairs. Journal of Physical Chemistry C, 2010, 114, 6560-6566.	3.1	89
58	Multiple Exciton Dissociation in CdSe Quantum Dots by Ultrafast Electron Transfer to Adsorbed Methylene Blue. Journal of the American Chemical Society, 2010, 132, 4858-4864.	13.7	212
59	Exciton Dissociation in CdSe Quantum Dots by Hole Transfer to Phenothiazine. Journal of Physical Chemistry C, 2008, 112, 19734-19738.	3.1	164
60	Comparison of Electron Injection Dynamics from Rhodamine B to In₂O₃, SnO₂, and ZnO Nanocrystalline Thin Films. Journal of Physical Chemistry C, 2008, 112, 5203-5212.	3.1	44
61	Photoinduced Ultrafast Electron Transfer from CdSe Quantum Dots to Re-bipyridyl Complexes. Journal of the American Chemical Society, 2008, 130, 5632-5633.	13.7	231
62	Synchrotron Xâ€Rayâ€Driven Nitrogen Reduction on an AgCu Thin Film. Small, 0, , 2202720.	10.0	0