Xiuli Wang

List of Publications by Year
in descending order

40 papers	5,263 citations	218592 26 h-index	276775 41 g-index
43 all docs	43 docs citations	43 times ranked	8072 citing authors

#	Article	IF	Citations
1	Enormous Promotion of Photocatalytic Activity through the Use of Near-Single Layer Covalent Organic Frameworks. CCS Chemistry, 2022, 4, 2429-2439.	4.6	25
2	Coupling effect between hole storage and interfacial charge transfer over ultrathin CoPi-modified hematite photoanodes. Dalton Transactions, 2022, 51, 9247-9255.	1.6	4
3	Time-resolved infrared spectroscopic investigation of Ga2O3 photocatalysts loaded with Cr2O3-Rh cocatalysts for photocatalytic water splitting. Chinese Journal of Catalysis, 2021, 42, 808-816.	6.9	14
4	Shallow Oxygen Substitution Defect to Deeper Defect Transformation Mechanism in Ta₃N₅ under Light Irradiation. Journal of Physical Chemistry Letters, 2021, 12, 3698-3704.	2.1	3
5	Conjugated Linkers Improve the Photoelectrocatalytic H 2 â€Evolution Activity of Cobaloximeâ€Modified Silicon Photocathodes by Largely Suppressing Charge Recombination. Advanced Materials Interfaces, 2021, 8, 2100182.	1.9	3
6	Surface Passivation Effect of Ferrihydrite with Hole-Storage Ability in Water Oxidation on BiVO₄ Photoanode. Journal of Physical Chemistry C, 2021, 125, 8369-8375.	1.5	15
7	Mechanistic Studies on Photocatalytic Overall Water Splitting over Ga₂O₃-Based Photocatalysts by <i>Operando</i> MS-FTIR Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 6029-6033.	2.1	19
8	Two-Dimensional All-in-One Sulfide Monolayers Driving Photocatalytic Overall Water Splitting. Nano Letters, 2021, 21, 6228-6236.	4.5	88
9	Highly Efficient Degradation of Persistent Pollutants with 3D Nanocone TiO₂-Based Photoelectrocatalysis. Journal of the American Chemical Society, 2021, 143, 13664-13674.	6.6	158
10	Unassisted Photoelectrochemical Cell with Multimediator Modulation for Solar Water Splitting Exceeding 4% Solar-to-Hydrogen Efficiency. Journal of the American Chemical Society, 2021, 143, 12499-12508.	6.6	157
11	Advanced space- and time-resolved techniques for photocatalyst studies. Chemical Communications, 2020, 56, 1007-1021.	2.2	50
12	One-step rapid synthesis, crystal structure and 3.3 microseconds long excited-state lifetime of Pd1Ag28 nanocluster. Nano Research, 2020, 13, 366-372.	5.8	30
13	Surface state modulation for size-controllable photodeposition of noble metal nanoparticles on semiconductors. Journal of Materials Chemistry A, 2020, 8, 21094-21102.	5.2	19
14	Gradient tantalum-doped hematite homojunction photoanode improves both photocurrents and turn-on voltage for solar water splitting. Nature Communications, 2020, 11, 4622.	5.8	133
15	Unravelling the water oxidation mechanism on NaTaO₃-based photocatalysts. Journal of Materials Chemistry A, 2020, 8, 6812-6821.	5.2	23
16	Triplet Sensitization by â€œSelf-Trappedâ€•Excitons of Nontoxic CuInS₂ Nanocrystals for Efficient Photon Upconversion. Journal of the American Chemical Society, 2019, 141, 13033-13037.	6.6	79
17	Influence of Anchoring Groups on the Charge Transfer and Performance of p-Si/TiO₂/Cobaloxime Hybrid Photocathodes for Photoelectrochemical H₂ Production. ACS Applied Materials & Interfaces, 2019, 11, 34010-34019.	4.0	13
18	Interfaceâ€Modificationâ€Induced Gradient Energy Band for Highly Efficient CsPbIBr₂ Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1803785.	10.2	191

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19	Promoting Photocatalytic H₂ Evolution on Organicâ€“Inorganic Hybrid Perovskite Nanocrystals by Simultaneous Dual-Charge Transportation Modulation. ACS Energy Letters, 2019, 4, 40-47.	8.8	127
20	Dynamic Interaction between Methylammonium Lead Iodide and TiO₂ Nanocrystals Leads to Enhanced Photocatalytic H₂ Evolution from HI Splitting. ACS Energy Letters, 2018, 3, 1159-1164.	8.8	147
21	Mimicking the Key Functions of Photosystem II in Artificial Photosynthesis for Photoelectrocatalytic Water Splitting. Journal of the American Chemical Society, 2018, 140, 3250-3256.	6.6	224
22	Visibleâ€Lightâ€Responsive 2D Cadmiumâ€“Organic Framework Single Crystals with Dual Functions of Water Reduction and Oxidation. Advanced Materials, 2018, 30, e1803401.	11.1	157
23	Stable high efficiency two-dimensional perovskite solar cells via cesium doping. Energy and Environmental Science, 2017, 10, 2095-2102.	15.6	588
24	Dual Extraction of Photogenerated Electrons and Holes from a Ferroelectric Sr_{0.5}Ba_{0.5}Nb₂O₆ Semiconductor. ACS Applied Materials & Interfaces, 2016, 8, 13857-13864.	4.0	16
25	Surface optimization to eliminate hysteresis for record efficiency planar perovskite solar cells. Energy and Environmental Science, 2016, 9, 3071-3078.	15.6	870
26	Unraveling a Single-Step Simultaneous Two-Electron Transfer Process from Semiconductor to Molecular Catalyst in a CoPy/CdS Hybrid System for Photocatalytic H₂ Evolution under Strong Alkaline Conditions. Journal of the American Chemical Society, 2016, 138, 10726-10729.	6.6	79
27	Roles of adsorption sites in electron transfer from CdS quantum dots to molecular catalyst cobaloxime studied by time-resolved spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 17389-17397.	1.3	16
28	Understanding the anataseâ€“rutile phase junction in charge separation and transfer in a TiO₂ electrode for photoelectrochemical water splitting. Chemical Science, 2016, 7, 6076-6082.	3.7	138
29	Photo-induced H2 production from a CH3OH-H2O solution at insulator surface. Scientific Reports, 2015, 5, 13475.	1.6	19
30	Effect of Phase Junction Structure on the Photocatalytic Performance in Overall Water Splitting: Ga₂O₃ Photocatalyst as an Example. Journal of Physical Chemistry C, 2015, 119, 18221-18228.	1.5	101
31	Achieving overall water splitting using titanium dioxide-based photocatalysts of different phases. Energy and Environmental Science, 2015, 8, 2377-2382.	15.6	313
32	Transient Absorption Spectroscopy of Anatase and Rutile: The Impact of Morphology and Phase on Photocatalytic Activity. Journal of Physical Chemistry C, 2015, 119, 10439-10447.	1.5	135
33	Novel ruthenium complexes ligated with 4-anilinoquinazoline derivatives: Synthesis, characterisation and preliminary evaluation of biological activity. European Journal of Medicinal Chemistry, 2014, 77, 110-120.	2.6	21
34	Transfer of Photoinduced Electrons in Anataseâ€“Rutile TiO₂ Determined by Time-Resolved Mid-Infrared Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 12661-12668.	1.5	102
35	RÃ¼cktitelbild: Photocatalytic Overall Water Splitting Promoted by an Î±-Î²â€…phase Junction on Ga2O3(Angew. Chem. 52/2012). Angewandte Chemie, 2012, 124, 13356-13356.	1.6	0
36	Photocatalytic Overall Water Splitting Promoted by an Î±â€“Î²â€…phase Junction on Ga₂O₃. Angewandte Chemie - International Edition, 2012, 51, 13089-13092.	7.2	574

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37	Visible emission characteristics from different defects of ZnS nanocrystals. Physical Chemistry Chemical Physics, 2011, 13, 4715.	1.3	159
38	Trap states and carrier dynamics of TiO2 studied by photoluminescence spectroscopy under weak excitation condition. Physical Chemistry Chemical Physics, 2010, 12, 7083.	1.3	240
39	Proliferation and Differentiation of Mouse Embryonic Stem Cells in APA Microcapsule: A Model for Studying the Interaction between Stem Cells and Their Niche. Biotechnology Progress, 2006, 22, 791-800.	1.3	71
40	Scalable Producing Embryoid Bodies by Rotary Cell Culture System and Constructing Engineered Cardiac Tissue with ES-Derived Cardiomyocytes in Vitro. Biotechnology Progress, 2006, 22, 811-818.	1.3	36