Liang Wang

List of Publications by Year
in descending order

41 papers	2,706 citations	257357 24 h-index	302012 39 g-index
41 all docs	41 docs citations	41 times ranked	3000 citing authors

#	Article	IF	Citations
1	A double perovskite participation for promoting stability and performance of Carbon-Based CsPbI2Br perovskite solar cells. Journal of Colloid and Interface Science, 2022, 606, 800-807.	5.0	16
2	The sulfur-rich small molecule boosts the efficiency of carbon-based CsPbI2Br perovskite solar cells to approaching 14%. Solar Energy, 2021, 216, 351-357.	2.9	30
3	Surface Management for Carbonâ€Based CsPbI₂Br Perovskite Solar Cell with 14% Power Conversion Efficiency. Solar Rrl, 2021, 5, 2100404.	3.1	24
4	Carrier Transport Layerâ€Free Perovskite Solar Cells. ChemSusChem, 2021, 14, 4776-4782.	3.6	8
5	Over 23% power conversion efficiency of planar perovskite solar cells via bulk heterojunction design. Chemical Engineering Journal, 2021, 426, 131838.	6.6	18
6	High-performance carbon-based CsPbI2Br perovskite solar cells via small molecule modification. Journal of Power Sources, 2021, 516, 230676.	4.0	9
7	Novel Lead-Free Material Cs₂PtI₆ with Narrow Bandgap and Ultra-Stability for Its Photovoltaic Application. ACS Applied Materials & Interfaces, 2020, 12, 44700-44709.	4.0	35
8	Cs-Incorporated AgBiI₄ Rudorffite for Efficient and Stable Solar Cells. ACS Sustainable Chemistry and Engineering, 2020, 8, 9980-9987.	3.2	20
9	Suppression of Iodide Ion Migration via Sb₂S₃ Interfacial Modification for Stable Inorganic Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 12867-12873.	4.0	32
10	Excellent Moisture Stability and Efficiency of Inverted All-Inorganic CsPbIBr₂ Perovskite Solar Cells through Molecule Interface Engineering. ACS Applied Materials & Interfaces, 2020, 12, 13931-13940.	4.0	52
11	Bifunctional Organic Disulfide for High-Efficiency and High-Stability Planar Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 9724-9731.	2.5	7
12	Indium Zinc Oxide Electron Transport Layer for High-Performance Planar Perovskite Solar Cells. Journal of Physical Chemistry C, 2018, 122, 28491-28496.	1.5	10
13	Response enhancement mechanism of NO2 gas sensing in ultrathin pentacene field-effect transistors. Organic Electronics, 2015, 24, 96-100.	1.4	66
14	A dual functional additive for the HTM layer in perovskite solar cells. Chemical Communications, 2014, 50, 5020.	2.2	110
15	From marine plants to photovoltaic devices. Energy and Environmental Science, 2014, 7, 343-346.	15.6	21
16	Composite catalyst of rosin carbon/Fe3O4: highly efficient counter electrode for dye-sensitized solar cells. Chemical Communications, 2014, 50, 1701.	2.2	72
17	Interlaced W₁₈O₄₉ nanofibers as a superior catalyst for the counter electrode of highly efficient dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 4347-4354.	5.2	58
18	High electrocatalytic activity of W₁₈O₄₉ nanowires for cobalt complex and ferrocenium redox mediators. RSC Advances, 2014, 4, 42190-42196.	1.7	7

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19	Iron oxide nanostructures as highly efficient heterogeneous catalysts for mesoscopic photovoltaics. Journal of Materials Chemistry A, 2014, 2, 15279-15283.	5.2	45
20	Notable catalytic activity of oxygen-vacancy-rich WO2.72 nanorod bundles as counter electrodes for dye-sensitized solar cells. Chemical Communications, 2013, 49, 7626.	2.2	76
21	Economical, green and dual-function pyridyl iodides as electrolyte components for high efficiency dye-sensitized solar cells. Chemical Communications, 2013, 49, 9003.	2.2	4
22	Economical hafnium oxygen nitride binary/ternary nanocomposite counter electrode catalysts for high-efficiency dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 1341-1348.	5.2	65
23	Highly Stable Gel-State Dye-Sensitized Solar Cells Based on High Soluble Polyvinyl Acetate. ACS Sustainable Chemistry and Engineering, 2013, 1, 205-208.	3.2	39
24	A new type of low-cost counter electrode catalyst based on platinum nanoparticles loaded onto silicon carbide (Pt/SiC) for dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 4286.	1.3	90
25	Printable fabrication of Pt-and-ITO free counter electrodes for completely flexible quasi-solid dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 3932.	5.2	28
26	First application of bis(oxalate)borate ionic liquids (ILBOBs) in high-performance dye-sensitized solar cells. RSC Advances, 2013, 3, 12975.	1.7	11
27	Printable electrolytes for highly efficient quasi-solid-state dye-sensitized solar cells. Electrochimica Acta, 2013, 91, 302-306.	2.6	73
28	Highly efficient catalysts for Co(ii/iii) redox couples in dye-sensitized solar cells. Chemical Communications, 2012, 48, 2600.	2.2	38
29	Non-Pt counter electrode catalysts using tantalum oxide for low-cost dye-sensitized solar cells. Electrochemistry Communications, 2012, 24, 69-73.	2.3	114
30	High-performance phosphide/carbon counter electrode for both iodide and organic redox couples in dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 11121.	6.7	129
31	Economical Pt-Free Catalysts for Counter Electrodes of Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2012, 134, 3419-3428.	6.6	798
32	SnSâ€Quantum Dot Solar Cells Using Novel TiC Counter Electrode and Organic Redox Couples. Chemistry - A European Journal, 2012, 18, 7862-7868.	1.7	39
33	Mono-ion transport electrolyte based on ionic liquid polymer for all-solid-state dye-sensitized solar cells. Solar Energy, 2012, 86, 1546-1551.	2.9	21
34	In Situ Synthesized Economical Tungsten Dioxide Imbedded in Mesoporous Carbon for Dye-Sensitized Solar Cells As Counter Electrode Catalyst. Journal of Physical Chemistry C, 2011, 115, 22598-22602.	1.5	64
35	Economical and effective sulfide catalysts for dye-sensitized solar cells as counter electrodes. Physical Chemistry Chemical Physics, 2011, 13, 19298.	1.3	306
36	An iodine-free electrolyte based on ionic liquid polymers for all-solid-state dye-sensitized solar cells. Chemical Communications, 2011, 47, 2700.	2.2	88

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37	Highly catalytic counter electrodes for organic redox couple of thiolate/disulfide in dye-sensitized solar cells. Applied Physics Letters, 2011, 98, .	1.5	58
38	Enhancing the Performance of Dye-Sensitized Solar Cells by Incorporating Mesoporous Carbon in Polymer Gel Electrolyte. Materials Science Forum, 2011, 685, 44-47.	0.3	0
39	A novel counter electrode based on mesoporous carbon for dye-sensitized solar cell. Materials Chemistry and Physics, 2010, 123, 690-694.	2.0	23
40	Improvement of the Photovoltaic Performance of Dye-Sensitized Solar Cells by Using Mesoporous Carbon in Polyvinylidene Fluoride/1-Methyl-3-Hexylimidazolium Iodide Gel Electrolyte. Advanced Materials Research, 2010, 156-157, 1078-1081.	0.3	2
41	Gelation of Ionic Liquid-Based Electrolyte with Ordered Mesoporous Silica Particles for Quasi-Solid-State Dye-Sensitized Solar Cells. Materials Science Forum, 0, 685, 55-59.	0.3	0