

Lu Wang

List of Publications by Year in descending order

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43
papers

1,886
citations

218677

26
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254184

43
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docs citations

43
times ranked

2795
citing authors

#	ARTICLE	IF	CITATIONS
1	Hole transporting material with passivating group (C N) for perovskite solar cells with improved stability. <i>Dyes and Pigments</i> , 2021, 187, 109129.	3.7	17
2	Heteroatom effect on linear-shaped dopant-free hole transporting materials for perovskite solar cells. <i>Solar Energy</i> , 2021, 221, 323-331.	6.1	18
3	Electrochemically Derived Graphene-Like Carbon Film as a Superb Substrate for High-Performance Aqueous Zn-Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1907120.	14.9	78
4	Exploration of polymer-assisted crystallization kinetics in CsPbBr ₃ all-inorganic solar cell. <i>Chemical Engineering Journal</i> , 2020, 392, 123805.	12.7	41
5	Facile donor (D)-D triphenylamine-based hole transporting materials with different D-linker for perovskite solar cells. <i>Solar Energy</i> , 2020, 195, 618-625.	6.1	28
6	Nanoporous TiO ₂ spheres with tailored textural properties: Controllable synthesis, formation mechanism, and photochemical applications. <i>Progress in Materials Science</i> , 2020, 109, 100620.	32.8	100
7	Proton Inserted Manganese Dioxides as a Reversible Cathode for Aqueous Zn-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 319-327.	5.1	44
8	Boosting optoelectronic performance of MAPbI ₃ perovskite solar cells via ethylammonium chloride additive engineering. <i>Science China Materials</i> , 2020, 63, 2477-2486.	6.3	25
9	Comparative Study of Linear and Starburst Ethane-Based Hole-Transporting Materials for Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2886-2894.	3.1	16
10	Molecular engineering of simple carbazole-arylamine hole-transport materials for perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1875-1882.	4.9	31
11	Fused tetraphenylethylene-triphenylamine as an efficient hole transporting material in perovskite solar cells. <i>Chemical Communications</i> , 2020, 56, 3159-3162.	4.1	35
12	Self-assembled MnO ₂ urchin-like microspheres as a high-performance cathode for aqueous Zn-ion batteries. <i>Science China Materials</i> , 2020, 63, 1196-1204.	6.3	44
13	Template-Assisted Formation of High-Quality Phase HC(NH ₂) ₂ PbI ₃ Perovskite Solar Cells. <i>Advanced Science</i> , 2019, 6, 1901591.	11.2	29
14	A PV power interval forecasting based on seasonal model and nonparametric estimation algorithm. <i>Solar Energy</i> , 2019, 184, 515-526.	6.1	78
15	Molecular Engineering of Simple Carbazole-Triphenylamine Hole Transporting Materials by Replacing Benzene with Pyridine Unit for Perovskite Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1800337.	5.8	48
16	Pierced ZnO nanosheets via a template-free photopolymerization in microemulsion. <i>Journal of Alloys and Compounds</i> , 2019, 787, 779-785.	5.5	15
17	Organic charge-transfer interface enhanced graphene hybrid phototransistors. <i>Organic Electronics</i> , 2019, 64, 22-26.	2.6	25
18	High-Efficiency and UV-Stable Planar Perovskite Solar Cells Using a Low-Temperature, Solution-Processed Electron-Transport Layer. <i>ChemSusChem</i> , 2018, 11, 1232-1237.	6.8	49

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19	A Bi-functional additive for linking PI 2 and decreasing defects in organo-halide perovskites. <i>Journal of Alloys and Compounds</i> , 2018, 758, 171-176.	5.5	12
20	Facile fabrication of perovskite layers with large grains through a solvent exchange approach. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 348-353.	6.0	34
21	Improving the performance of arylamine-based hole transporting materials in perovskite solar cells: Extending π -conjugation length or increasing the number of side groups?. <i>Journal of Energy Chemistry</i> , 2018, 27, 1409-1414.	12.9	13
22	A star-shaped carbazole-based hole-transporting material with triphenylamine side arms for perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12912-12918.	5.5	80
23	A Simple Carbazole-Triphenylamine Hole Transport Material for Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26337-26343.	3.1	34
24	Enlarged working potential window for MnO ₂ supercapacitors with neutral aqueous electrolytes. <i>Applied Surface Science</i> , 2018, 459, 430-437.	6.1	57
25	Performance enhancement of perovskite solar cells using a La-doped BaSnO ₃ electron transport layer. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3675-3682.	10.3	90
26	Shape-controlled synthesis of single-crystalline anatase TiO ₂ micro/nanoarchitectures for efficient dye-sensitized solar cells. <i>Sustainable Energy and Fuels</i> , 2017, 1, 520-528.	4.9	14
27	Crack-free perovskite layers for high performance and reproducible devices via improved control of ambient conditions during fabrication. <i>Applied Surface Science</i> , 2017, 407, 427-433.	6.1	18
28	New insight into solvent engineering technology from evolution of intermediates via one-step spin-coating approach. <i>Science China Materials</i> , 2017, 60, 392-398.	6.3	53
29	Thiophene- π -Arylamine Hole-Transporting Materials in Perovskite Solar Cells: Substitution Position Effect. <i>Energy Technology</i> , 2017, 5, 1788-1794.	3.8	44
30	Controllable intermediates by molecular self-assembly for optimizing the fabrication of large-grain perovskite films via one-step spin-coating. <i>Journal of Alloys and Compounds</i> , 2017, 705, 205-210.	5.5	52
31	Tetraphenylmethane- π -Arylamine Hole-Transporting Materials for Perovskite Solar Cells. <i>ChemSusChem</i> , 2017, 10, 968-975.	6.8	45
32	Influence of π -linker on triphenylamine-based hole transporting materials in perovskite solar cells. <i>Dyes and Pigments</i> , 2017, 139, 129-135.	3.7	69
33	Temperature-assisted rapid nucleation: a facile method to optimize the film morphology for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20327-20333.	10.3	148
34	Solvothermal Synthesis of Hierarchical TiO ₂ Microstructures with High Crystallinity and Superior Light Scattering for High-Performance Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32026-32033.	8.0	42
35	Achieving mixed halide perovskite via halogen exchange during vapor-assisted solution process for efficient and stable perovskite solar cells. <i>Organic Electronics</i> , 2017, 50, 33-42.	2.6	23
36	Anthracene- π -arylamine hole transporting materials for perovskite solar cells. <i>Chemical Communications</i> , 2017, 53, 9558-9561.	4.1	45

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37	High performance polymer solar cells with electron extraction and light-trapping dual functional cathode interfacial layer. <i>Nano Energy</i> , 2017, 31, 201-209.	16.0	27
38	Interface modification effects using a halide-free lead source for perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1358-1365.	4.9	3
39	Diketopyrrolopyrrole or benzodithiophene-arylamine small-molecule hole transporting materials for stable perovskite solar cells. <i>RSC Advances</i> , 2016, 6, 87454-87460.	3.6	26
40	Synthesis of TiO ₂ microspheres building on the etherification and its application for high efficiency solar cells. <i>Journal of Power Sources</i> , 2016, 329, 225-231.	7.8	13
41	Effective and reproducible method for preparing low defects perovskite film toward highly photoelectric properties with large fill factor by shaping capping layer. <i>Solar Energy</i> , 2016, 136, 505-514.	6.1	17
42	Mesoporous BaSnO ₃ layer based perovskite solar cells. <i>Chemical Communications</i> , 2016, 52, 970-973.	4.1	132
43	TiO ₂ Microspheres with Controllable Surface Area and Porosity for Enhanced Light Harvesting and Electrolyte Diffusion in Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 5946-5953.	14.9	74