

Tonggang Jiu

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59
papers

1,919
citations

22
h-index

43
g-index

61
ext. papers

2,254
ext. citations

8.9
avg, IF

4.93
L-index

#	Paper	IF	Citations
59	Highly efficient electron transport obtained by doping PCBM with graphdiyne in planar-heterojunction perovskite solar cells. <i>Nano Letters</i> , 2015 , 15, 2756-62	11.5	286
58	Graphdiyne Derivative as Multifunctional Solid Additive in Binary Organic Solar Cells with 17.3% Efficiency and High Reproducibility. <i>Advanced Materials</i> , 2020 , 32, e1907604	24	245
57	Synthesis of Chlorine-Substituted Graphdiyne and Applications for Lithium-Ion Storage. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10740-10745	16.4	165
56	Improved electron transport in MAPbI ₃ perovskite solar cells based on dual doping graphdiyne. <i>Nano Energy</i> , 2018 , 46, 331-337	17.1	113
55	Highly Conjugated Three-Dimensional Covalent Organic Frameworks Based on Spirobifluorene for Perovskite Solar Cell Enhancement. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10016-10024	16.4	111
54	Graphdiyne as a Host Active Material for Perovskite Solar Cell Application. <i>Nano Letters</i> , 2018 , 18, 6941-6947	17.1	84
53	Polyelectrolyte based hole-transporting materials for high performance solution processed planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15024-15029	13	83
52	Graphdiyne-Based Materials: Preparation and Application for Electrochemical Energy Storage. <i>Advanced Materials</i> , 2019 , 31, e1803202	24	68
51	Graphdiyne Containing Atomically Precise N Atoms for Efficient Anchoring of Lithium Ion. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2608-2617	9.5	66
50	Triazine-graphdiyne: A new nitrogen-carbonous material and its application as an advanced rechargeable battery anode. <i>Carbon</i> , 2018 , 137, 442-450	10.4	52
49	Interface Modification of ZnO-Based Inverted PTB7:PC71BM Organic Solar Cells by Cesium Stearate and Simultaneous Enhancement of Device Parameters. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1331-1337	8.3	51
48	Graphdiyne-Doped P3CT-K as an Efficient Hole-Transport Layer for MAPbI Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2626-2631	9.5	45
47	Preparation and characterization of MoO ₃ hole-injection layer for organic solar cell fabrication and optimization. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 603-609	6.4	44
46	Chlorobenzene vapor assistant annealing method for fabricating high quality perovskite films. <i>Organic Electronics</i> , 2016 , 34, 97-103	3.5	37
45	Solvents induced ZnO nanoparticles aggregation associated with their interfacial effect on organic solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18172-9	9.5	31
44	Tetrathiafulvalene derivative as a new hole-transporting material for highly efficient perovskite solar cell. <i>Dyes and Pigments</i> , 2017 , 147, 113-119	4.6	30
43	Improving efficiency by hybrid TiO ₂ nanorods with 1,10-phenanthroline as a cathode buffer layer for inverted organic solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 739-44	9.5	29

42	Performance Enhancement of Inverted Perovskite Solar Cells Based on Smooth and Compact PCBM:SnO Electron Transport Layers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20128-20135	9.5	29
41	Performance enhancement of inverted polymer solar cells with fullerene ester derivant-modified ZnO film as cathode buffer layer. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 126, 36-41	6.4	27
40	Inverted MAPbI ₃ Perovskite Solar Cells with Graphdiyne Derivative-Incorporated Electron Transport Layers Exceeding 20% Efficiency. <i>Solar Rrl</i> , 2019 , 3, 1900241	7.1	26
39	Facile preparation and characterization of ZnCdS nanocrystals for interfacial applications in photovoltaic devices. <i>Journal of Colloid and Interface Science</i> , 2018 , 512, 353-360	9.3	22
38	Chemical modification: Toward solubility and processability of graphdiyne. <i>Nano Energy</i> , 2019 , 64, 103932	7.1	22
37	Inverted CH ₃ NH ₃ PbI ₃ perovskite solar cells based on solution-processed V ₂ O ₅ film combined with P3CT salt as hole transport layer. <i>Materials Today Energy</i> , 2018 , 9, 487-495	7	19
36	High-performance inverted solar cells based on blend films of ZnO Nanoparticles and TiO ₂ nanorods as a cathode buffer layer. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 4074-80	9.5	17
35	Grain boundary passivation with triazine-graphdiyne to improve perovskite solar cell performance. <i>Science China Materials</i> , 2020 , 63, 2465-2476	7.1	17
34	Molecular modeling of poly(p-phenylenevinylene): Synthesis and photophysical properties of oligomers. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 911-924	2.5	15
33	Simultaneous hole transport and defect passivation enabled by a dopant-free single polymer for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21036-21043	13	15
32	Inverted polymer solar cells with enhanced fill factor by inserting the potassium stearate interfacial modification layer. <i>Applied Physics Letters</i> , 2016 , 108, 181602	3.4	14
31	Highly efficient inverted polymer solar cells using fullerene derivative modified TiO ₂ nanorods as the buffer layer. <i>RSC Advances</i> , 2014 , 4, 19529	3.7	13
30	Studies of Graphdiyne-ZnO Nanocomposite Material and Application in Polymer Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800211	7.1	12
29	Ternary CuZnS Nanocrystals: Synthesis, Characterization, and Interfacial Application in Perovskite Solar Cells. <i>Inorganic Chemistry</i> , 2018 , 57, 8375-8381	5.1	11
28	Highly-improved performance of inverted planar perovskite solar cells by glucose modification. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5894-5903	7.1	10
27	Controllable Spatial Configuration on Cathode Interface for Enhanced Photovoltaic Performance and Device Stability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17401-17408	9.5	10
26	Highly efficient regular polymer solar cells based on Li-TFSI doping ZnO as electron-transporting interlayers. <i>Solar Energy</i> , 2018 , 169, 49-54	6.8	8
25	TTA as a potential hole transport layer for application in conventional polymer solar cells. <i>Journal of Energy Chemistry</i> , 2020 , 42, 210-216	12	8

24	Performance Enhancement of Conventional Polymer Solar Cells with TTF-py-Modified PEDOT:PSS Film as the Hole Transport Layer. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6577-6583	6.1	7
23	Growth of 1D Nanorod Perovskite for Surface Passivation in FAPbI Perovskite Solar Cells. <i>Small</i> , 2021 , e2104100	11	7
22	Enhanced photocurrent in heterostructures formed between CHNHPbI perovskite films and graphdiyne. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 6239-6246	3.6	6
21	Solution prepared O-doped ZnS nanocrystals: Structure characterization, energy level engineering and interfacial application in polymer solar cells. <i>Solar Energy</i> , 2018 , 160, 353-359	6.8	6
20	New method for the synthesis of a highly-conjugated acene material and its application in Perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2261-2264	7.8	6
19	Tris(pentafluorophenyl)borane-Modified P3CT-K as an Efficient Hole-Transport Layer for Inverted Planar MAPbI ₃ Perovskite Solar Cells. <i>Advanced Sustainable Systems</i> , 2021 , 5, 2100107	5.9	6
18	Dithiol treatments enhancing the efficiency of hybrid solar cells based on PTB7 and CdSe nanorods. <i>Nano Research</i> , 2015 , 8, 3045-3053	10	5
17	Improved interfacial property by small molecule ethanediamine for high performance inverted planar perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 54, 467-474	12	5
16	Growth of 2D passivation layer in FAPbI ₃ perovskite solar cells for high open-circuit voltage. <i>Nano Today</i> , 2022 , 42, 101357	17.9	4
15	The influence of ionic radius of interfacial molecule on device performances of polymer solar cells. <i>Solar Energy</i> , 2018 , 170, 906-912	6.8	3
14	Control of the Surface Disorder by Ion-Exchange to Achieve High Open-Circuit Voltage in HC(NH)PbI Perovskite Solar Cell.. <i>Small Methods</i> , 2021 , 5, e2101079	12.8	3
13	The Possible Side Reaction in the Annealing Process of Perovskite Layers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35043-35048	9.5	3
12	A Small-Molecule Zwitterionic Electrolyte without a Delocalized Unit as a Charge-Injection Layer for High-Performance PLEDs. <i>Angewandte Chemie</i> , 2013 , 125, 3501-3504	3.6	2
11	Interfacial Carrier-Transfer Channel Optimization Based on Hydrogen Bonds for High-Performance Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3881-3890	6.1	2
10	Graphdiyne oxide doped SnO ₂ electron transport layer for high performance perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 6913-6922	7.8	2
9	Interfacial Modification by Low-Temperature Anchoring Surface Uncoordinated Pb for Efficient FAPbI ₃ Perovskite Solar Cells. <i>Advanced Sustainable Systems</i> , 2021 , 5, 2100510	5.9	2
8	Solution-processed PbCdS nanocrystals as a novel hole transport material for inverted CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>Solar Energy</i> , 2021 , 216, 321-328	6.8	1
7	Non-planar tetrathiafulvalene derivative modified hole transporting layer for efficient organic solar cells with improved fill factor. <i>Solar Energy</i> , 2021 , 224, 883-888	6.8	1

6	Graphdiyne oxide modified nano CuO as inorganic hole transport layer for efficient and stable organic solar cells. <i>2D Materials</i> ,	5.9	1
5	Graphdiyne oxide doping for aggregation control of hole-transport nanolayer in inverted perovskite solar cells. <i>Nano Research</i> ,1	10	1
4	Graphdiyne Oxide Modified NiOx for Enhanced Charge Extraction in Inverted Planar MAPbI3 Perovskite Solar Cells. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 1309	2.2	0
3	Conjugated Polyelectrolyte Combined with Ionic Liquid as the Hole Transport Layer for Efficient Inverted Perovskite Solar Cells. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 036503	3.9	0
2	Graphdiyne oxide-accelerated charge carrier transfer and separation at the interface for efficient binary organic solar cells. <i>Science China Materials</i> ,1	7.1	0
1	Graphdiyne-Based Materials in Solar Cells Applications 2022 , 287-314		