Nian Cheng

List of Publications by Year
in descending order

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26	932	471509 17	580821 25
papers	citations	h-index	g-index

26	26	26	1510
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	SnO2 electron transport layer modified with gentian violet for perovskite solar cells with enhanced performance. Organic Electronics, 2022, 108, 106600.	2.6	5
2	Efficient and stable MAPbI3 perovskite solar cells achieved via chlorobenzene/perylene mixed anti-solvent. Solar Energy, 2021, 220, 251-257.	6.1	22
3	Scalable one-step heating up synthesis of Cu2ZnSnS4 nanocrystals hole conducting materials for carbon electrode based perovskite solar cells. Solar Energy, 2021, 224, 51-57.	6.1	7
4	CZTS nanoparticles as an effective hole-transport layer for Sb2Se3 thin-film solar cells. Solar Energy, 2021, 226, 154-160.	6.1	10
5	High performance inverted perovskite solar cells using PEDOT:PSS/KCl hybrid hole transporting layer. Organic Electronics, 2021, 98, 106298.	2.6	9
6	Cu2ZnSnS4 as an efficient hole transporting material for low temperature paintable carbon electrode based perovskite solar cells. Organic Electronics, 2020, 76, 105455.	2.6	30
7	Boost the performance of inverted perovskite solar cells with PEDOT:PSS/Graphene quantum dots composite hole transporting layer. Organic Electronics, 2020, 78, 105575.	2.6	28
8	Inverted planar perovskite solar cells with efficient and stability via optimized cathode-interfacial layer. Solar Energy, 2020, 207, 1165-1171.	6.1	5
9	Ligand modification of Cu₂ZnSnS₄ nanoparticles boosts the performance of low temperature paintable carbon electrode based perovskite solar cells to 17.71%. Journal of Materials Chemistry A, 2020, 8, 12080-12088.	10.3	25
10	Post-annealing treatment of a-GeSe thin films for photovoltaic application. Solar Energy, 2020, 199, 837-843.	6.1	23
11	Structural modulation enables magneto-dielectric effect and enhanced photoactivity in ferroelectric bismuth iron niobate pyrochlore. Journal of Materials Chemistry C, 2019, 7, 1263-1272.	5.5	23
12	Probing effects of molecular conformation on the electronic and charge transport properties in two- and three-dimensional small molecule hole-transporting materials: a theoretical investigation. Physical Chemistry Chemical Physics, 2019, 21, 15206-15214.	2.8	24
13	Enhance the performance and stability of methylammonium lead iodide perovskite solar cells with guanidinium thiocyanate additive. Current Applied Physics, 2019, 19, 25-30.	2.4	32
14	A simulation study of valence band offset engineering at the perovskite/Cu2ZnSn(Se1-xSx)4 interface for enhanced performance. Materials Science in Semiconductor Processing, 2019, 90, 59-64.	4.0	17
15	High performance hole transport material free perovskite solar cells from a low pure PbI2 source using a facile solid-gas reaction process. Organic Electronics, 2018, 53, 221-226.	2.6	9
16	W-doped TiO2 mesoporous electron transport layer for efficient hole transport material free perovskite solar cells employing carbon counter electrodes. Journal of Power Sources, 2017, 342, 489-494.	7.8	71
17	Combined solvent and vapor treatment to prepare high quality perovskite films under high relative humidity. Electrochimica Acta, 2017, 246, 990-996.	5.2	11
18	Low-temperature plasma-enhanced atomic layer deposition of tin oxide electron selective layers for highly efficient planar perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 12080-12087.	10.3	210

#	Article	IF	Citations
19	Stable Organicâ€“Inorganic Perovskite Solar Cells without Holeâ€Conductor Layer Achieved via Cell Structure Design and Contact Engineering. Advanced Functional Materials, 2016, 26, 4866-4873.	14.9	84
20	Enhanced performance in hole transport material free perovskite solar cells via morphology control of PbI2 film by solvent treatment. Journal of Power Sources, 2016, 319, 111-115.	7.8	46
21	Application of mesoporous SiO2 layer as an insulating layer in high performance hole transport material free CH3NH3PbI3 perovskite solar cells. Journal of Power Sources, 2016, 321, 71-75.	7.8	46
22	Multi-walled carbon nanotubes act as charge transport channel to boost the efficiency of hole transport material free perovskite solar cells. Journal of Power Sources, 2016, 332, 24-29.	7.8	58
23	One-pot stirring-free synthesis of silver nanowires with tunable lengths and diameters via a Fe³⁺& Cl^{â^’}co-mediated polyol method and their application as transparent conductive films. Nanoscale, 2016, 8, 18121-18133.	5.6	66
24	Low-cost and Efficient Hole-Transport-Material-free perovskite solar cells employing controllable electron-transport layer based on P25 nanoparticles. Electrochimica Acta, 2016, 213, 83-88.	5.2	33
25	A composite nanostructured electron-transport layer for stable hole-conductor free perovskite solar cells: design and characterization. Nanoscale, 2016, 8, 5847-5851.	5.6	25
26	Efficient Electron Transport Scaffold Made up of Submicron TiO₂ Spheres for High-Performance Hole-Transport Material Free Perovskite Solar Cells. ACS Applied Energy Materials, 0, , .	5.1	13