Shaopeng Yang

List of Publications by Year
in descending order

34 papers	499 citations	687363 13 h-index	713466 21 g-index
34 all docs	34 docs citations	34 times ranked	825 citing authors

#	Article	IF	Citations
1	Functionalized SnO2 films by using EDTA-2ÂM for high efficiency perovskite solar cells with efficiency over 23%. Chemical Engineering Journal, 2022, 430, 132683.	12.7	38
2	Progress in perylene diimides for organic solar cell applications. RSC Advances, 2022, 12, 6966-6973.	3.6	33
3	A facile strategy to adjust SnO₂/perovskite interfacial properties for high-efficiency perovskite solar cells. Journal of Materials Chemistry C, 2022, 10, 8414-8421.	5.5	11
4	Precursor formula engineering enabling high quality solution processed C60 films for efficient and stable inverted perovskite solar cells. Chemical Engineering Journal, 2022, 446, 136897.	12.7	6
5	Back-Contact Ionic Compound Engineering Boosting the Efficiency and Stability of Blade-Coated Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 34040-34048.	8.0	1
6	F-Type Pseudo-Halide Anions for High-Efficiency and Stable Wide-Band-Gap Inverted Perovskite Solar Cells with Fill Factor Exceeding 84%. ACS Nano, 2022, 16, 10798-10810.	14.6	45
7	Multifunctional molecular incorporation boosting the efficiency and stability of the inverted perovskite solar cells. Journal of Power Sources, 2021, 488, 229449.	7.8	10
8	High-Efficiency and Stable Organic Solar Cells with Stacked LiF and Organic Electrolytes as Cathode Interface Layers. ACS Applied Energy Materials, 2021, 4, 4489-4497.	5.1	4
9	Additive Engineering for Efficient and Stable MAPbI₃-Perovskite Solar Cells with an Efficiency of over 21%. ACS Applied Materials & Interfaces, 2021, 13, 44451-44459.	8.0	18
10	Improved Morphology and Interfacial Contact of PBDB-T:N2200-Based All-Polymer Solar Cells by Using the Solvent Additive p-Anisaldehyde. ACS Applied Energy Materials, 2020, 3, 358-365.	5.1	11
11	A facile strategy for enhanced performance of inverted organic solar cells based on low-temperature solution-processed SnO2 electron transport layer. Organic Electronics, 2020, 78, 105555.	2.6	23
12	Broadening the light absorption range via PBDB-T to improve the power conversion efficiency in ternary organic solar cells. Organic Electronics, 2020, 78, 105587.	2.6	9
13	Effect of IT-M doping on charge transfer and ultrafast carrier dynamics of ternary organic solar cell materials. Journal Physics D: Applied Physics, 2020, 53, 095103.	2.8	4
14	Facile Physical Modifications of Polymer Hole Transporting Layers for Efficient and Reproducible Perovskite Solar Cells with Fill Factor Exceeding 80%. Solar Rrl, 2020, 4, 2000365.	5.8	13
15	Enhanced efficiency in perovskite solar cells by eliminating the electron contact barrier between the metal electrode and electron transport layer. Journal of Materials Chemistry A, 2019, 7, 1349-1355.	10.3	32
16	Organic Monomolecular Layers Enable Energy-Level Matching for Efficient Hole Transporting Layer Free Inverted Perovskite Solar Cells. ACS Nano, 2019, 13, 1625-1634.	14.6	41
17	High-Efficiency and Stable Organic Solar Cells Enabled by Dual Cathode Buffer Layers. ACS Applied Materials & Interfaces, 2018, 10, 5682-5692.	8.0	36
18	Incorporating Trialkylsilylethynyl-Substituted Head-to-Head Bithiophene Unit into Copolymers for Efficient Non-Fullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 7271-7280.	8.0	9

#	Article	IF	Citations
19	Simultaneous enhancement of short-circuit current density, open circuit voltage and fill factor in ternary organic solar cells based on PTB7-Th:IT-M:PC71BM. Solar Energy Materials and Solar Cells, 2018, 182, 45-51.	6.2	24
20	Tailoring the second acceptor unit in easily synthesized ternary copolymers toward efficient non-fullerene polymer solar cells. Dyes and Pigments, 2018, 148, 72-80.	3.7	5
21	18.0% efficiency flexible perovskite solar cells based on double hole transport layers and CH₃NH₃PbI_{3âˆ’x}Cl_x with dual additives. Journal of Materials Chemistry C, 2018, 6, 8770-8777.	5.5	28
22	Efficiency enhancement in planar CH 3 NH 3 PbI 3âˆ’x Cl x perovskite solar cells by processing with bidentate halogenated additives. Solar Energy Materials and Solar Cells, 2017, 165, 36-44.	6.2	32
23	Enhanced performance of polymer solar cells based on PTB7-Th:PC₇₁BM by doping with 1-bromo-4-nitrobenzene. Journal of Materials Chemistry C, 2017, 5, 10985-10990.	5.5	19
24	Wide Band Gap and Highly Conjugated Copolymers Incorporating 2-(Triisopropylsilylethynyl)thiophene-Substituted Benzodithiophene for Efficient Non-Fullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 28828-28837.	8.0	18
25	High performance ternary organic solar cells using two miscible donor molecules based on PTB7-Th and DR3TBDTT. Organic Electronics, 2017, 41, 209-214.	2.6	7
26	Formation of charge-transfer complexes significantly improves the performance of polymer solar cells based on PBDTTT-C-T: PC71 BM. Progress in Photovoltaics: Research and Applications, 2015, 23, 783-792.	8.1	6
27	Formation of charge transfer complexes significantly improves the electron transfer process of polymer solar cells. Organic Electronics, 2015, 18, 70-76.	2.6	5
28	Enhancing the Efficiency of Polymer Solar Cells by Modifying Buffer Layer with N,N-Dimethylacetamide. International Journal of Photoenergy, 2014, 2014, 1-6.	2.5	4
29	Semitransparent Polymer Solar Cells Based on Liquid Crystal Reflectors. International Journal of Photoenergy, 2014, 2014, 1-5.	2.5	0
30	Enhancing the power conversion efficiency of PCDTBT:PC71BM polymer solar cells using a mixture of solvents. Science Bulletin, 2014, 59, 297-300.	1.7	4
31	Improving the efficiency of organic photovoltaic cells by introducing an ultrathin modification layer with a strong dipole moment. Science Bulletin, 2012, 57, 1655-1658.	1.7	3
32	Study on time-resolved fluorescence dynamics of cyanine dye sensitizing AgBr. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 243-250.	0.2	0
33	Super-sensitization mechanism of T-Grain AgBrI emulsion sensitized by an anionicâ€“cationic cyanine dye. Materials Letters, 2008, 62, 2434-2437.	2.6	0
34	The trapping effect of sulfur sensitization center Ag2S cluster on T-grain AgBrI microcrystals. Science in China Series G: Physics, Mechanics and Astronomy, 2004, 47, 744-751.	0.2	0