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List of Publications by Year
in descending order

204 papers	18,204 citations	14655 66 h-index	14208 128 g-index
204 all docs	204 docs citations	204 times ranked	11157 citing authors

#	Article	IF	Citations
1	Bananaâ€shaped electron acceptors with an electronâ€rich core fragment and 3D packing capability. , 2023, 5, .		22
2	Alkalis-doping of mixed tin-lead perovskites for efficient near-infrared light-emitting diodes. Science Bulletin, 2022, 67, 54-60.	9.0	13
3	Inhibiting octahedral tilting for stable <scp>CsPbI₂Br</scp> solar cells. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	17.3	17
4	Polymerizing small molecular acceptors for efficient allâ€polymer solar cells. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	17.3	42
5	Engineering of the alkyl chain branching point on a lactone polymer donor yields 17.81% efficiency. Journal of Materials Chemistry A, 2022, 10, 3314-3320.	10.3	17
6	ADAâ€²DA small molecule acceptors with non-fully-fused core units. Materials Chemistry Frontiers, 2022, 6, 802-806.	5.9	3
7	F-containing cations improve the performance of perovskite solar cells. Journal of Semiconductors, 2022, 43, 010202.	3.7	12
8	11.39% efficiency Cu₂ZnSn(S,Se)₄ solar cells from scrap brass. SusMat, 2022, 2, 206-211.	14.9	2
9	Interfacial defect passivation by novel phosphonium salts yields 22% efficiency perovskite solar cells: Experimental and theoretical evidence. EcoMat, 2022, 4, .	11.9	35
10	Frontier applications of perovskites beyond photovoltaics. Journal of Semiconductors, 2022, 43, 040203.	3.7	7
11	Inorganic electron-transport materials in perovskite solar cells. Journal of Semiconductors, 2022, 43, 040201.	3.7	9
12	Low-bandgap small molecule acceptors with asymmetric side chains. Materials Chemistry Frontiers, 2022, 6, 1858-1864.	5.9	2
13	Suppressing the formation of tin vacancy yields efficient lead-free perovskite solar cells. Nano Energy, 2022, 99, 107416.	16.0	37
14	A chlorinated lactone polymer donor featuring high performance and low cost. Journal of Semiconductors, 2022, 43, 050501.	3.7	14
15	Manipulate energy transport via fluorinated spacers towards record-efficiency 2D Dion-Jacobson CsPbI3 solar cells. Science Bulletin, 2022, 67, 1352-1361.	9.0	19
16	Modifying SnO₂ with Polyacrylamide to Enhance the Performance of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 34143-34150.	8.0	27
17	Intermediates transformation for efficient perovskite solar cells. Journal of Energy Chemistry, 2021, 52, 102-114.	12.9	26
18	Defect passivation by nontoxic biomaterial yields 21% efficiency perovskite solar cells. Journal of Energy Chemistry, 2021, 55, 265-271.	12.9	50

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19	Developing Dâ€"Ï€â€"D hole-transport materials for perovskite solar cells: the effect of the Ï€-bridge on device performance. Materials Chemistry Frontiers, 2021, 5, 876-884.	5.9	33
20	Tetrazole modulated perovskite films for efficient solar cells with improved moisture stability. Chemical Engineering Journal, 2021, 420, 127579.	12.7	14
21	The integration structure enhances performance of perovskite solar cells. Science Bulletin, 2021, 66, 310-313.	9.0	2
22	Bladeâ€coating Perovskite Films with Diverse Compositions for Efficient Photovoltaics. Energy and Environmental Materials, 2021, 4, 277-283.	12.8	31
23	Amines modulation and passivation yields record perovskite optoelectronic devices. Journal of Energy Chemistry, 2021, 53, 419-421.	12.9	13
24	Encapsulation for perovskite solar cells. Science Bulletin, 2021, 66, 100-102.	9.0	18
25	Strategies from small-area to scalable fabrication for perovskite solar cells. Journal of Energy Chemistry, 2021, 57, 567-586.	12.9	17
26	Single-crystal perovskite devices. Science Bulletin, 2021, 66, 214-218.	9.0	11
27	Passivation with crosslinkable diamine yields 0.1ÂV non-radiative Voc loss in inverted perovskite solar cells. Science Bulletin, 2021, 66, 417-420.	9.0	12
28	Ionic liquid reducing energy loss and stabilizing CsPbI2Br solar cells. Nano Energy, 2021, 81, 105631.	16.0	71
29	Perovskite-based tandem solar cells. Science Bulletin, 2021, 66, 621-636.	9.0	91
30	A Novel Annealingâ€Free Amorphous Inorganic Metal Oxyhydroxide Cathode Interlayer for Efficient and Stable Inverted Perovskite Solar Cells. Solar Rrl, 2021, 5, .	5.8	8
31	Direct Observation on p- to n-Type Transformation of Perovskite Surface Region during Defect Passivation Driving High Photovoltaic Efficiency. Joule, 2021, 5, 467-480.	24.0	245
32	A History and Perspective of Nonâ€Fullerene Electron Acceptors for Organic Solar Cells. Advanced Energy Materials, 2021, 11, 2003570.	19.5	323
33	D18, an eximious solar polymer!. Journal of Semiconductors, 2021, 42, 010502.	3.7	117
34	Efficient wide-bandgap copolymer donors with reduced synthesis cost. Journal of Materials Chemistry C, 2021, 9, 16187-16191.	5.5	4
35	A large-bandgap copolymer donor for efficient ternary organic solar cells. Materials Chemistry Frontiers, 2021, 5, 6139-6144.	5.9	13
36	A universal method for constructing high efficiency organic solar cells with stacked structures. Energy and Environmental Science, 2021, 14, 2314-2321.	30.8	75

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37	Pushing commercialization of perovskite solar cells by improving their intrinsic stability. Energy and Environmental Science, 2021, 14, 3233-3255.	30.8	166
38	Inorganic perovskite/organic tandem solar cells with efficiency over 20%. Journal of Semiconductors, 2021, 42, 020501.	3.7	31
39	Adjusting energy level alignment between HTL and CsPbI₂Br to improve solar cell efficiency. Journal of Semiconductors, 2021, 42, 030501.	3.7	21
40	Blade-coated organic solar cells from non-halogenated solvent offer 17% efficiency. Journal of Semiconductors, 2021, 42, 030502.	3.7	27
41	Largeâ€Area Bladeâ€Coated Solar Cells: Advances and Perspectives. Advanced Energy Materials, 2021, 11, 2100378.	19.5	77
42	Dropâ€Casting to Make Efficient Perovskite Solar Cells under High Humidity. Angewandte Chemie, 2021, 133, 11342-11346.	2.0	20
43	Dropâ€Casting to Make Efficient Perovskite Solar Cells under High Humidity. Angewandte Chemie - International Edition, 2021, 60, 11242-11246.	13.8	64
44	Passivation functionalized phenothiazine-based hole transport material for highly efficient perovskite solar cell with efficiency exceeding 22%. Chemical Engineering Journal, 2021, 410, 128328.	12.7	83
45	Defect engineering on all-inorganic perovskite solar cells for high efficiency. Journal of Semiconductors, 2021, 42, 050203.	3.7	17
46	Drop-coating produces efficient CsPbI₂Br solar cells. Journal of Semiconductors, 2021, 42, 050502.	3.7	13
47	Ambient air-processed Cu2ZnSn(S,Se)4 solar cells with over 12% efficiency. Science Bulletin, 2021, 66, 880-883.	9.0	27
48	Leadâ€Free Perovskite Photodetectors: Progress, Challenges, and Opportunities. Advanced Materials, 2021, 33, e2006691.	21.0	138
49	Over 1 cm² flexible organic solar cells. Journal of Semiconductors, 2021, 42, 050301.	3.7	22
50	Creating a Dualâ€Functional 2D Perovskite Layer at the Interface to Enhance the Performance of Flexible Perovskite Solar Cells. Small, 2021, 17, e2102368.	10.0	44
51	Dithieno[3',2':3,4;2'',3'':5,6]benzo[1,2-c][1,2,5]oxadiazole-based polymer donors with deep HOMO levels. Journal of Semiconductors, 2021, 42, 060501.	3.7	10
52	Exploring the Charge Dynamics and Energy Loss in Ternary Organic Solar Cells with a Fill Factor Exceeding 80%. Advanced Energy Materials, 2021, 11, 2101338.	19.5	62
53	18.69% PCE from organic solar cells. Journal of Semiconductors, 2021, 42, 060502.	3.7	121
54	Efficient MAPbI₃ solar cells made via drop-coating at room temperature. Journal of Semiconductors, 2021, 42, 072201.	3.7	17

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55	Post-sulphuration enhances the performance of a lactone polymer donor. Journal of Semiconductors, 2021, 42, 070501.	3.7	14
56	All-polymer solar cells. Journal of Semiconductors, 2021, 42, 080301.	3.7	36
57	Polymer acceptors for all-polymer solar cells. Journal of Semiconductors, 2021, 42, 080202.	3.7	15
58	Toward improved stability of nonfullerene organic solar cells: Impact of interlayer and builtâ€in potential. EcoMat, 2021, 3, e12134.	11.9	28
59	Perovskite crystallization. Journal of Semiconductors, 2021, 42, 080203.	3.7	13
60	Perovskite/Si tandem solar cells: Fundamentals, advances, challenges, and novel applications. SusMat, 2021, 1, 324-344.	14.9	70
61	Self-spreading produces highly efficient perovskite solar cells. Nano Energy, 2021, 90, 106509.	16.0	26
62	Construct efficient CsPbI2Br solar cells by minimizing the open-circuit voltage loss through controlling the peripheral substituents of hole-transport materials. Chemical Engineering Journal, 2021, 425, 131675.	12.7	34
63	Advances in perovskite quantum-dot solar cells. Journal of Energy Chemistry, 2021, 52, 351-353.	12.9	13
64	Ion migration in perovskite solar cells. Journal of Semiconductors, 2021, 42, 010201.	3.7	29
65	A chlorinated copolymer donor demonstrates a 18.13% power conversion efficiency. Journal of Semiconductors, 2021, 42, 010501.	3.7	158
66	A wide-bandgap copolymer donor with a 5-methyl-4H-dithieno[3,2-e:2',3'-g]isoindole-4,6(5H)-dione unit. Journal of Semiconductors, 2021, 42, 100502.	3.7	6
67	Solution-processed tandem organic solar cells. Journal of Semiconductors, 2021, 42, 110201.	3.7	2
68	Using fluorinated and crosslinkable fullerene derivatives to improve the stability of perovskite solar cells. Journal of Semiconductors, 2021, 42, 120201.	3.7	4
69	18% Efficiency organic solar cells. Science Bulletin, 2020, 65, 272-275.	9.0	2,380
70	Bulk heterojunction gifts bismuth-based lead-free perovskite solar cells with record efficiency. Nano Energy, 2020, 68, 104362.	16.0	102
71	Effects of Oxygen Atoms Introduced at Different Positions of Non-Fullerene Acceptors in the Performance of Organic Solar Cells with Poly(3-hexylthiophene). ACS Applied Materials & Interfaces, 2020, 12, 1094-1102.	8.0	39
72	A 2.16ÂeV bandgap polymer donor gives 16% power conversion efficiency. Science Bulletin, 2020, 65, 179-181.	9.0	75

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73	Over 16% efficiency from thick-film organic solar cells. Science Bulletin, 2020, 65, 1979-1982.	9.0	62
74	Indoor organic photovoltaics. Science Bulletin, 2020, 65, 2040-2042.	9.0	41
75	Fast Wetting of a Fullerene Capping Layer Improves the Efficiency and Scalability of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 37265-37274.	8.0	6
76	Fused-ring bislactone building blocks for polymer donors. Science Bulletin, 2020, 65, 1792-1795.	9.0	35
77	Enhanced and Balanced Charge Transport Boosting Ternary Solar Cells Over 17% Efficiency. Advanced Materials, 2020, 32, e2002344.	21.0	127
78	Advances in perovskite photodetectors. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 1247-1256.	17.3	107
79	Rubidium Ions Enhanced Crystallinity for Ruddlesdenâ€“Popper Perovskites. Advanced Science, 2020, 7, 2002445.	11.2	25
80	Multiple conformation locks gift polymer donor high efficiency. Nano Energy, 2020, 77, 105161.	16.0	33
81	Hot-Casting Large-Grain Perovskite Film for Efficient Solar Cells: Film Formation and Device Performance. Nano-Micro Letters, 2020, 12, 156.	27.0	47
82	Solution-processable n-type organic thermoelectric materials. Science Bulletin, 2020, 65, 1862-1864.	9.0	9
83	Full Defects Passivation Enables 21% Efficiency Perovskite Solar Cells Operating in Air. Advanced Energy Materials, 2020, 10, 2001958.	19.5	117
84	Filterâ€Free Bandâ€Selective Organic Photodetectors. Advanced Optical Materials, 2020, 8, 2001388.	7.3	63
85	Suppressing the Excessive Solvated Phase for Dionâ€“Jacobson Perovskites with Improved Crystallinity and Vertical Orientation. Solar Rrl, 2020, 4, 2000371.	5.8	36
86	Halide Perovskite, a Potential Scintillator for Xâ€Ray Detection. Small Methods, 2020, 4, 2000506.	8.6	160
87	Metal oxide alternatives for efficient electron transport in perovskite solar cells: beyond TiO₂ and SnO₂. Journal of Materials Chemistry A, 2020, 8, 19768-19787.	10.3	60
88	Flexible Perovskite Solar Modules with Functional Layers Fully Vacuum Deposited. Solar Rrl, 2020, 4, 2000292.	5.8	29
89	Thermodynamic Properties and Molecular Packing Explain Performance and Processing Procedures of Three D18:NFA Organic Solar Cells. Advanced Materials, 2020, 32, e2005386.	21.0	130
90	Decreasing energy loss and optimizing band alignment for high performance CsPbI₃solar cells through guanidine hydrobromide post-treatment. Journal of Materials Chemistry A, 2020, 8, 10346-10353.	10.3	40

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91	An Electrically Modulated Singleâ€Color/Dualâ€Color Imaging Photodetector. Advanced Materials, 2020, 32, e1907257.	21.0	145
92	The new era for organic solar cells: polymer acceptors. Science Bulletin, 2020, 65, 1508-1510.	9.0	50
93	Lewis acid/base approach for efficacious defect passivation in perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 12201-12225.	10.3	149
94	Potential applications for perovskite solar cells in space. Nano Energy, 2020, 76, 105019.	16.0	63
95	Spontaneous surface/interface ligand-anchored functionalization for extremely high fill factor over 86% in perovskite solar cells. Nano Energy, 2020, 75, 104929.	16.0	47
96	Coordination modulated crystallization and defect passivation in high quality perovskite film for efficient solar cells. Coordination Chemistry Reviews, 2020, 420, 213408.	18.8	51
97	Semitransparent perovskite solar cells for smart windows. Science Bulletin, 2020, 65, 980-982.	9.0	28
98	Fused-ring phenazine building blocks for efficient copolymer donors. Materials Chemistry Frontiers, 2020, 4, 1454-1458.	5.9	21
99	Efficient All-Inorganic Perovskite Light-Emitting Diodes with Improved Operation Stability. ACS Applied Materials & Interfaces, 2020, 12, 18084-18090.	8.0	54
100	Enhanced efficiency and stability of nonfullerene ternary polymer solar cells based on a spontaneously assembled active layer: the role of a high mobility small molecular electron acceptor. Journal of Materials Chemistry C, 2020, 8, 6196-6202.	5.5	22
101	Correlating alkyl chain length with defect passivation efficacy in perovskite solar cells. Chemical Communications, 2020, 56, 5006-5009.	4.1	51
102	Progress of the key materials for organic solar cells. Science China Chemistry, 2020, 63, 758-765.	8.2	158
103	Dual effective dopant based hole transport layer for stable and efficient perovskite solar cells. Nano Energy, 2020, 72, 104673.	16.0	78
104	Unveiling the Effects of Hydrolysisâ€Derived DMAI/DMAPbI<i>_x</i> Intermediate Compound on the Performance of CsPbI₃ Solar Cells. Advanced Science, 2020, 7, 1902868.	11.2	97
105	Vacancy defect modulation in hot-casted NiO film for efficient inverted planar perovskite solar cells. Journal of Energy Chemistry, 2020, 48, 426-434.	12.9	44
106	Insights into Ultrafast Carrier Dynamics in Perovskite Thin Films and Solar Cells. ACS Photonics, 2020, 7, 1893-1907.	6.6	34
107	Large-area perovskite solar cells. Science Bulletin, 2020, 65, 872-875.	9.0	34
108	Constructing binary electron transport layer with cascade energy level alignment for efficient CsPbI2Br solar cells. Nano Energy, 2020, 71, 104604.	16.0	56

#	Article	IF	Citations
109	Strategies for Improving the Stability of Tinâ€Based Perovskite (ASnX₃) Solar Cells. Advanced Science, 2020, 7, 1903540.	11.2	123
110	Approaches for thermodynamically stabilized CsPbI3 solar cells. Nano Energy, 2020, 71, 104634.	16.0	95
111	Toward stable and efficient Sn-containing perovskite solar cells. Science Bulletin, 2020, 65, 786-790.	9.0	21
112	High-power bifacial perovskite solar cells with shelf life of over 2000Âh. Science Bulletin, 2020, 65, 607-610.	9.0	36
113	Templated growth of oriented layered hybrid perovskites on 3D-like perovskites. Nature Communications, 2020, 11, 582.	12.8	167
114	The new era for organic solar cells: polymer donors. Science Bulletin, 2020, 65, 1422-1424.	9.0	57
115	Application of perovskite nanocrystals (NCs)/quantum dots (QDs) in solar cells. Nano Energy, 2020, 73, 104757.	16.0	77
116	Low-dimensionality perovskites yield high electroluminescence. Science Bulletin, 2020, 65, 1057-1060.	9.0	15
117	All-perovskite tandem structures shed light on thin-film photovoltaics. Science Bulletin, 2020, 65, 1144-1146.	9.0	41
118	Improving energy level alignment by adenine for efficient and stable perovskite solar cells. Nano Energy, 2020, 74, 104846.	16.0	54
119	The new era for organic solar cells: non-fullerene small molecular acceptors. Science Bulletin, 2020, 65, 1231-1233.	9.0	65
120	Organic Photodetectors: Materials, Structures, and Challenges. Solar Rrl, 2020, 4, 2000139.	5.8	78
121	Charge-transport layer engineering in perovskite solar cells. Science Bulletin, 2020, 65, 1237-1241.	9.0	115
122	An efficient medium-bandgap nonfullerene acceptor for organic solar cells. Journal of Materials Chemistry A, 2020, 8, 8857-8861.	10.3	17
123	Ionic liquids engineering for high-efficiency and stable perovskite solar cells. Chemical Engineering Journal, 2020, 398, 125594.	12.7	85
124	Advances in design engineering and merits of electron transporting layers in perovskite solar cells. Materials Horizons, 2020, 7, 2276-2291.	12.2	66
125	A low-temperature solution-processed copper antimony iodide rudorffite for solar cells. Science China Materials, 2019, 62, 54-58.	6.3	22
126	Light Management via Tuning the Fluorineâ€Doped Tin Oxide Glass Hazeâ€Drives Highâ€Efficiency CsPbI 3 Solar Cells. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900602.	1.8	5

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127	CsPb(I Br1â^')3 solar cells. Science Bulletin, 2019, 64, 1532-1539.	9.0	114
128	Cesium Lead Mixed-Halide Perovskites for Low-Energy Loss Solar Cells with Efficiency Beyond 17%. Chemistry of Materials, 2019, 31, 6231-6238.	6.7	76
129	Highâ€Performance Flexible Perovskite Solar Cells via Precise Control of Electron Transport Layer. Advanced Energy Materials, 2019, 9, 1901419.	19.5	167
130	Ruddlesdenâ€"Popper 2D Component to Stabilize Î³â€CsPbI₃ Perovskite Phase for Stable and Efficient Photovoltaics. Advanced Energy Materials, 2019, 9, 1902529.	19.5	111
131	Highly Crystalline Near-Infrared Acceptor Enabling Simultaneous Efficiency and Photostability Boosting in High-Performance Ternary Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 48095-48102.	8.0	30
132	Interface engineering gifts CsPbI2.25Br0.75 solar cells high performance. Science Bulletin, 2019, 64, 1743-1746.	9.0	51
133	A Wide-Band Gap Copolymer Donor for Efficient Fullerene-Free Solar Cells. ACS Omega, 2019, 4, 14800-14804.	3.5	4
134	Functionality of Nonâ€Fullerene Electron Acceptors in Ternary Organic Solar Cells. Solar Rrl, 2019, 3, 1900322.	5.8	26
135	5H-dithieno[3,2-b:2â€²,3â€²-d]pyran-5-one unit yields efficient wide-bandgap polymer donors. Science Bulletin, 2019, 64, 1655-1657.	9.0	55
136	Thiolactone copolymer donor gifts organic solar cells a 16.72% efficiency. Science Bulletin, 2019, 64, 1573-1576.	9.0	140
137	Alkoxythiophene and alkylthiothiophene Ï€-bridges enhance the performance of Aâ€"Dâ€"A electron acceptors. Materials Chemistry Frontiers, 2019, 3, 492-495.	5.9	21
138	High-performance wide-bandgap copolymers with dithieno[3,2-<i>b</i>:2â€²,3â€²-<i>d</i>]pyridin-5(4<i>H</i>)-one units. Materials Chemistry Frontiers, 2019, 3, 399-402.	5.9	18
139	Induced J-aggregation in acceptor alloy enhances photocurrent. Science Bulletin, 2019, 64, 1083-1086.	9.0	43
140	Photoelectric Synaptic Plasticity Realized by 2D Perovskite. Advanced Functional Materials, 2019, 29, 1902538.	14.9	132
141	Elevated Stability and Efficiency of Solar Cells via Ordered Alloy Co-Acceptors. ACS Energy Letters, 2019, 4, 1106-1114.	17.4	62
142	Correlating the electron-donating core structure with morphology and performance of carbon oxygen-bridged ladder-type non-fullerene acceptor based organic solar cells. Nano Energy, 2019, 61, 318-326.	16.0	43
143	Importance of terminated groups in 9,9-bis(4-methoxyphenyl)-substituted fluorene-based hole transport materials for highly efficient organicâ€"inorganic hybrid and all-inorganic perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 10319-10324.	10.3	38
144	Interfacial charge behavior modulation in 2D/3D perovskite heterostructure for potential high-performance solar cells. Nano Energy, 2019, 59, 715-720.	16.0	108

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145	Visible to Nearâ€Infrared Photodetection Based on Ternary Organic Heterojunctions. Advanced Functional Materials, 2019, 29, 1808948.	14.9	95
146	CsPbI_{2.69}Br_{0.31} solar cells from low-temperature fabrication. Materials Chemistry Frontiers, 2019, 3, 1139-1142.	5.9	19
147	2D perovskite microsheets for high-performance photodetectors. Journal of Materials Chemistry C, 2019, 7, 5353-5358.	5.5	54
148	Comparative analysis of burn-in photo-degradation in non-fullerene COi8DFIC acceptor based high-efficiency ternary organic solar cells. Materials Chemistry Frontiers, 2019, 3, 1085-1096.	5.9	31
149	CsPbI2.25Br0.75 solar cells with 15.9% efficiency. Science Bulletin, 2019, 64, 507-510.	9.0	62
150	Highly Efficient Perovskite Solar Cells Processed Under Ambient Conditions Using In Situ Substrateâ€Heatingâ€Assisted Deposition. Solar Rrl, 2019, 3, 1800318.	5.8	37
151	Pseudohalide (SCN^{âˆ’})-doped CsPbI₃ for high-performance solar cells. Journal of Materials Chemistry C, 2019, 7, 13736-13742.	5.5	53
152	A wide-bandgap copolymer donor based on a phenanthridin-6(5<i>H</i>)-one unit. Materials Chemistry Frontiers, 2019, 3, 2686-2689.	5.9	6
153	Enhancing the efficiency of PTB7-Th:CO<i>i</i>8DFIC-based ternary solar cells with versatile third components. Applied Physics Reviews, 2019, 6, .	11.3	20
154	Suppressing photo-oxidation of non-fullerene acceptors and their blends in organic solar cells by exploring material design and employing friendly stabilizers. Journal of Materials Chemistry A, 2019, 7, 25088-25101.	10.3	107
155	The humidity-insensitive fabrication of efficient CsPbI₃ solar cells in ambient air. Journal of Materials Chemistry A, 2019, 7, 26776-26784.	10.3	54
156	Molecular Order Control of Non-fullerene Acceptors for High-Efficiency Polymer Solar Cells. Joule, 2019, 3, 819-833.	24.0	209
157	Beyond Metal Oxides: Introducing Lowâ€Temperature Solutionâ€Processed Ultrathin Layered Double Hydroxide Nanosheets into Polymer Solar Cells Toward Improved Electron Transport. Solar Rrl, 2019, 3, 1800299.	5.8	5
158	Carbonâ€“Oxygenâ€Bridged Ladderâ€Type Building Blocks for Highly Efficient Nonfullerene Acceptors. Advanced Materials, 2019, 31, e1804790.	21.0	139
159	Selfâ€Assembled 2D Perovskite Layers for Efficient Printable Solar Cells. Advanced Energy Materials, 2019, 9, 1803258.	19.5	149
160	A Thieno[3,2â€c]Isoquinolinâ€5(4H)â€One Building Block for Efficient Thickâ€Film Solar Cells. Advanced Energy Materials, 2018, 8, 1800397.	19.5	35
161	One-step roll-to-roll air processed high efficiency perovskite solar cells. Nano Energy, 2018, 46, 185-192.	16.0	271
162	Thermostable single-junction organic solar cells with a power conversion efficiency of 14.62%. Science Bulletin, 2018, 63, 340-342.	9.0	260

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163	A carbonâ€“oxygen-bridged hexacyclic ladder-type building block for low-bandgap nonfullerene acceptors. Materials Chemistry Frontiers, 2018, 2, 700-703.	5.9	41
164	Improving Photovoltaic Performance of a Fusedâ€Ring Azepinedione Copolymer via a Dâ€“Aâ€“A Design. Macromolecular Rapid Communications, 2018, 39, e1700882.	3.9	2
165	A lead-free two-dimensional perovskite for a high-performance flexible photoconductor and a light-stimulated synaptic device. Nanoscale, 2018, 10, 6837-6843.	5.6	146
166	Simultaneously improved efficiency and average visible transmittance of semitransparent polymer solar cells with two ultra-narrow bandgap nonfullerene acceptors. Journal of Materials Chemistry A, 2018, 6, 21485-21492.	10.3	80
167	NIR to Visible Light Upconversion Devices Comprising an NIR Charge Generation Layer and a Perovskite Emitter. Advanced Optical Materials, 2018, 6, 1801084.	7.3	55
168	Over 13% Efficiency Ternary Nonfullerene Polymer Solar Cells with Tilted Up Absorption Edge by Incorporating a Medium Bandgap Acceptor. Advanced Energy Materials, 2018, 8, 1801968.	19.5	167
169	CsAg₂Sb₂I₉ solar cells. Inorganic Chemistry Frontiers, 2018, 5, 1690-1693.	6.0	21
170	A heptacyclic carbonâ€“oxygen-bridged ladder-type building block for Aâ€“Dâ€“A acceptors. Materials Chemistry Frontiers, 2018, 2, 1716-1719.	5.9	34
171	Organic and solution-processed tandem solar cells with 17.3% efficiency. Science, 2018, 361, 1094-1098.	12.6	2,262
172	Understanding the side-chain effects on Aâ€“Dâ€“A acceptors: in-plane and out-of-plane. Materials Chemistry Frontiers, 2018, 2, 1563-1567.	5.9	16
173	Lock-up function of fluorine enhances photovoltaic performance of polythiophene. Science China Chemistry, 2017, 60, 251-256.	8.2	4
174	A facilely synthesized lactam acceptor unit for high-performance polymer donors. RSC Advances, 2017, 7, 3439-3442.	3.6	1
175	Additiveâ€Free Organic Solar Cells with Power Conversion Efficiency over 10%. Advanced Energy Materials, 2017, 7, 1602663.	19.5	72
176	Effect of Isomeric Structures on Photovoltaic Performance of Dâ€“A Copolymers. Macromolecular Rapid Communications, 2017, 38, 1700074.	3.9	5
177	Leadâ€free Perovskite Materials (NH₄)₃Sb₂I_xBr_{9âˆ’<i>x</i>}. Angewandte Chemie, 2017, 129, 6628-6632.	2.0	69
178	Leadâ€free Perovskite Materials (NH₄)₃Sb₂I_xBr_{9âˆ’<i>x</i>}. Angewandte Chemie - International Edition, 2017, 56, 6528-6532.	13.8	180
179	A Highâ€Performance Dâ€“A Copolymer Based on Dithieno[3,2â€b:2â€²,3â€²â€d]Pyridinâ€5(4H)â€One Unit Compatible with Fullerene and Nonfullerene Acceptors in Solar Cells. Advanced Energy Materials, 2017, 7, 1602509.	19.5	92
180	A Solutionâ€Processed Highâ€Performance Phototransistor based on a Perovskite Composite with Chemically Modified Graphenes. Advanced Materials, 2017, 29, 1606175.	21.0	80

#	Article	IF	Citations
181	A Dâ€"A copolymer donor containing an alkylthio-substituted thieno[3,2-b]thiophene unit. New Journal of Chemistry, 2017, 41, 2895-2898.	2.8	9
182	26â€¯mAâ€¯cmâˆ'2 Jsc from organic solar cells with a low-bandgap nonfullerene acceptor. Science Bulletin, 2017, 62, 1494-1496.	9.0	368
183	A carbon-oxygen-bridged ladder-type building block for efficient donor and acceptor materials used in organic solar cells. Science Bulletin, 2017, 62, 1331-1336.	9.0	84
184	Ternary organic solar cells offer 14% power conversion efficiency. Science Bulletin, 2017, 62, 1562-1564.	9.0	665
185	Overcoming Interfacial Losses in Solutionâ€Processed Organic Multiâ€Junction Solar Cells. Advanced Energy Materials, 2017, 7, 1601959.	19.5	39
186	Modified PEDOT Layer Makes a 1.52 V <i>V</i>_{oc} for Perovskite/PCBM Solar Cells. Advanced Energy Materials, 2017, 7, 1601193.	19.5	189
187	Highâ€Performance Polymer Tandem Solar Cells Employing a New nâ€Type Conjugated Polymer as an Interconnecting Layer. Advanced Materials, 2016, 28, 4817-4823.	21.0	156
188	Development of isomer-free fullerene bisadducts for efficient polymer solar cells. Energy and Environmental Science, 2016, 9, 2114-2121.	30.8	95
189	Bilayer Heterostructured PThTPTI/WS2 Photodetectors with High Thermal Stability in Ambient Environment. ACS Applied Materials & Interfaces, 2016, 8, 33043-33050.	8.0	25
190	Advances in Perovskite Solar Cells. Advanced Science, 2016, 3, 1500324.	11.2	482
191	The effect of fluorination on the photovoltaic performance of the Dâ€"A copolymers containing naphtho[2,3-c]thiophene-4,9-dione and bithiophene moieties. Polymer Chemistry, 2016, 7, 4993-4997.	3.9	11
192	A heptacyclic acceptor unit developed for Dâ€"A copolymers used in polymer solar cells. Polymer Chemistry, 2016, 7, 1027-1030.	3.9	19
193	A pentacyclic building block containing an azepine-2,7-dione moiety for polymer solar cells. Polymer Chemistry, 2016, 7, 2329-2332.	3.9	24
194	A lactam building block for efficient polymer solar cells. Chemical Communications, 2015, 51, 11830-11833.	4.1	69
195	Hexacyclic lactam building blocks for highly efficient polymer solar cells. Chemical Communications, 2015, 51, 12122-12125.	4.1	34
196	High-performance inverted PThTPTI:PC71BM solar cells. Nano Energy, 2015, 15, 125-134.	16.0	63
197	Highâ€Performance Thermally Stable Organic Phototransistors Based on PSeTPTI/PC₆₁BM for Visible and Ultraviolet Photodetection. Advanced Functional Materials, 2015, 25, 3138-3146.	14.9	62
198	Dâ€"A copolymers containing lactam moieties for polymer solar cells. Polymer Chemistry, 2015, 6, 7373-7376.	3.9	13

#	Article	IF	Citations
199	A hexacyclic ladder-type building block for high-performance Dâ€“A copolymers. Journal of Materials Chemistry A, 2015, 3, 24211-24214.	10.3	21
200	Bulk heterojunctions push the photoresponse of perovskite solar cells to 970 nm. Journal of Materials Chemistry A, 2015, 3, 9063-9066.	10.3	96
201	An 80.11% FF record achieved for perovskite solar cells by using the NH₄Cl additive. Nanoscale, 2014, 6, 9935-9938.	5.6	368
202	A pentacyclic aromatic lactam building block for efficient polymer solar cells. Energy and Environmental Science, 2013, 6, 3224.	30.8	143
203	Pushing Fullerene Absorption into the Nearâ€IR Region by Conjugately Fusing Oligothiophenes. Angewandte Chemie - International Edition, 2012, 51, 9038-9041.	13.8	77
204	Using Cyclopenta[2,1â€‹<i>b</i>:3,4â€‹<i>câ€²</i>]dithiopheneâ€4â€one as a Building Block for Lowâ€Bandgap Conjugated Copolymers Applied in Solar Cells. Macromolecular Rapid Communications, 2012, 33, 1574-1579.	3.9	16