Feng Gao

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156 25,009 224 73 h-index g-index citations papers 31,109 240 15.3 7.59 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
224	Organic solar cells based on non-fullerene acceptors. <i>Nature Materials</i> , 2018 , 17, 119-128	27	1743
223	Fullerene-Free Polymer Solar Cells with over 11% Efficiency and Excellent Thermal Stability. <i>Advanced Materials</i> , 2016 , 28, 4734-9	24	1507
222	Perovskite light-emitting diodes based on solution-processed self-organized multiple quantum wells. <i>Nature Photonics</i> , 2016 , 10, 699-704	33.9	1206
221	Over 16% efficiency organic photovoltaic cells enabled by a chlorinated acceptor with increased open-circuit voltages. <i>Nature Communications</i> , 2019 , 10, 2515	17.4	1093
220	Fast charge separation in a non-fullerene organic solar cell with a small driving force. <i>Nature Energy</i> , 2016 , 1,	62.3	967
219	Single-Junction Organic Photovoltaic Cells with Approaching 18% Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1908205	24	896
218	Visible-Light Photocatalytic Properties of Weak Magnetic BiFeO3 Nanoparticles. <i>Advanced Materials</i> , 2007 , 19, 2889-2892	24	745
217	Planar perovskite solar cells with long-term stability using ionic liquid additives. <i>Nature</i> , 2019 , 571, 245-	-25504	697
216	Highly Efficient Perovskite Nanocrystal Light-Emitting Diodes Enabled by a Universal Crosslinking Method. <i>Advanced Materials</i> , 2016 , 28, 3528-34	24	651
215	Rational molecular passivation for high-performance perovskite light-emitting diodes. <i>Nature Photonics</i> , 2019 , 13, 418-424	33.9	638
214	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. <i>Nature Energy</i> , 2020 , 5, 131-140	62.3	552
213	Design rules for minimizing voltage losses in high-efficiency organic solar cells. <i>Nature Materials</i> , 2018 , 17, 703-709	27	500
212	Non-fullerene acceptors with branched side chains and improved molecular packing to exceed 18% efficiency in organic solar cells. <i>Nature Energy</i> , 2021 , 6, 605-613	62.3	457
211	Mapping Polymer Donors toward High-Efficiency Fullerene Free Organic Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1604155	24	335
210	Metal halide perovskites for light-emitting diodes. <i>Nature Materials</i> , 2021 , 20, 10-21	27	322
209	Preparation and photoabsorption characterization of BiFeO3 nanowires. <i>Applied Physics Letters</i> , 2006 , 89, 102506	3.4	305
208	Recent Progresses on Defect Passivation toward Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1902650	21.8	283

(2016-2017)

207	Efficient Semitransparent Organic Solar Cells with Tunable Color enabled by an Ultralow-Bandgap Nonfullerene Acceptor. <i>Advanced Materials</i> , 2017 , 29, 1703080	24	276
206	A monothiophene unit incorporating both fluoro and ester substitution enabling high-performance donor polymers for non-fullerene solar cells with 16.4% efficiency. <i>Energy and Environmental Science</i> , 2019 , 12, 3328-3337	35.4	273
205	Enabling low voltage losses and high photocurrent in fullerene-free organic photovoltaics. <i>Nature Communications</i> , 2019 , 10, 570	17.4	260
204	Wide-gap non-fullerene acceptor enabling high-performance organic photovoltaic cells for indoor applications. <i>Nature Energy</i> , 2019 , 4, 768-775	62.3	256
203	Minimising efficiency roll-off in high-brightness perovskite light-emitting diodes. <i>Nature Communications</i> , 2018 , 9, 608	17.4	248
202	14.7% Efficiency Organic Photovoltaic Cells Enabled by Active Materials with a Large Electrostatic Potential Difference. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7743-7750	16.4	244
201	Fine-Tuning Energy Levels via Asymmetric End Groups Enables Polymer Solar Cells with Efficiencies over 17%. <i>Joule</i> , 2020 , 4, 1236-1247	27.8	237
200	Formation of nanopatterned polymer blends in photovoltaic devices. <i>Nano Letters</i> , 2010 , 10, 1302-7	11.5	236
199	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , 2020 , 369, 96-102	33.3	231
198	High Performance and Stable All-Inorganic Metal Halide Perovskite-Based Photodetectors for Optical Communication Applications. <i>Advanced Materials</i> , 2018 , 30, e1803422	24	224
197	Optical Gaps of Organic Solar Cells as a Reference for Comparing Voltage Losses. <i>Advanced Energy Materials</i> , 2018 , 8, 1801352	21.8	211
196	Defects engineering for high-performance perovskite solar cells. <i>Npj Flexible Electronics</i> , 2018 , 2,	10.7	207
195	Comparison of the Operation of Polymer/Fullerene, Polymer/Polymer, and Polymer/Nanocrystal Solar Cells: A Transient Photocurrent and Photovoltage Study. <i>Advanced Functional Materials</i> , 2011 , 21, 1419-1431	15.6	206
194	Subtle Molecular Tailoring Induces Significant Morphology Optimization Enabling over 16% Efficiency Organic Solar Cells with Efficient Charge Generation. <i>Advanced Materials</i> , 2020 , 32, e1906324	24	203
193	Non-fullerene acceptor with low energy loss and high external quantum efficiency: towards high performance polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5890-5897	13	202
192	Tuning the electron-deficient core of a non-fullerene acceptor to achieve over 17% efficiency in a single-junction organic solar cell. <i>Energy and Environmental Science</i> , 2020 , 13, 2459-2466	35.4	199
191	Oriented Quasi-2D Perovskites for High Performance Optoelectronic Devices. <i>Advanced Materials</i> , 2018 , 30, e1804771	24	195
190	Band structure engineering in organic semiconductors. <i>Science</i> , 2016 , 352, 1446-9	33.3	186

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113

All-Polymer Solar Cells. Advanced Materials, 2020, 32, e2004183

light-emitting diodes. Nature Communications, 2020, 11, 4165

Large cation ethylammonium incorporated perovskite for efficient and spectra stable blue

173

(2018-2021)

171	High Efficiency (15.8%) All-Polymer Solar Cells Enabled by a Regioregular Narrow Bandgap Polymer Acceptor. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2665-2670	16.4	112
170	16% efficiency all-polymer organic solar cells enabled by a finely tuned morphology via the design of ternary blend. <i>Joule</i> , 2021 , 5, 914-930	27.8	110
169	Surface phase separation in nanosized charge-ordered manganites. <i>Applied Physics Letters</i> , 2007 , 90, 082508	3.4	108
168	The renaissance of hybrid solar cells: progresses, challenges, and perspectives. <i>Energy and Environmental Science</i> , 2013 , 6, 2020	35.4	102
167	The progress and prospects of non-fullerene acceptors in ternary blend organic solar cells. <i>Materials Horizons</i> , 2018 , 5, 206-221	14.4	100
166	Low-Temperature Combustion-Synthesized Nickel Oxide Thin Films as Hole-Transport Interlayers for Solution-Processed Optoelectronic Devices. <i>Advanced Energy Materials</i> , 2014 , 4, 1301460	21.8	97
165	Morphological Control for Highly Efficient Inverted Polymer Solar Cells Via the Backbone Design of Cathode Interlayer Materials. <i>Advanced Energy Materials</i> , 2014 , 4, 1400359	21.8	93
164	Charge-order breaking and ferromagnetism in La0.4Ca0.6MnO3 nanoparticles. <i>Applied Physics Letters</i> , 2007 , 91, 032502	3.4	92
163	Efficient CsPbBr3 Perovskite Light-Emitting Diodes Enabled by Synergetic Morphology Control. <i>Advanced Optical Materials</i> , 2019 , 7, 1801534	8.1	89
162	High-Efficiency Flexible Solar Cells Based on Organometal Halide Perovskites. <i>Advanced Materials</i> , 2016 , 28, 4532-40	24	86
161	A Near-Infrared Photoactive Morphology Modifier Leads to Significant Current Improvement and Energy Loss Mitigation for Ternary Organic Solar Cells. <i>Advanced Science</i> , 2018 , 5, 1800755	13.6	85
160	Temperature dependence of charge carrier generation in organic photovoltaics. <i>Physical Review Letters</i> , 2015 , 114, 128701	7.4	84
159	Promoting charge separation resulting in ternary organic solar cells efficiency over 17.5%. <i>Nano Energy</i> , 2020 , 78, 105272	17.1	80
158	Colloidal metal oxide nanocrystals as charge transporting layers for solution-processed light-emitting diodes and solar cells. <i>Chemical Society Reviews</i> , 2017 , 46, 1730-1759	58.5	77
157	Stable, High-Sensitivity and Fast-Response Photodetectors Based on Lead-Free Cs2AgBiBr6 Double Perovskite Films. <i>Advanced Optical Materials</i> , 2019 , 7, 1801732	8.1	77
156	Formation of Well-Ordered Heterojunctions in Polymer:PCBM Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2011 , 21, 139-146	15.6	76
155	Unveiling the synergistic effect of precursor stoichiometry and interfacial reactions for perovskite light-emitting diodes. <i>Nature Communications</i> , 2019 , 10, 2818	17.4	75
154	Fullerene-Based Materials for Photovoltaic Applications: Toward Efficient, Hysteresis-Free, and Stable Perovskite Solar Cells. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700435	6.4	74

153	Recent progress toward perovskite light-emitting diodes with enhanced spectral and operational stability. <i>Materials Today Nano</i> , 2019 , 5, 100028	9.7	73
152	Reducing Voltage Losses in the A-DA?D-A Acceptor-Based Organic Solar Cells. <i>CheM</i> , 2020 , 6, 2147-216	116.2	73
151	High-Performance Perovskite Light-Emitting Diode with Enhanced Operational Stability Using Lithium Halide Passivation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4099-4105	16.4	72
150	Efficient and Spectrally Stable Blue Perovskite Light-Emitting Diodes Based on Potassium Passivated Nanocrystals. <i>Advanced Functional Materials</i> , 2020 , 30, 1908760	15.6	7º
149	A unified description of non-radiative voltage losses in organic solar cells. <i>Nature Energy</i> , 2021 , 6, 799-8	3062.3	70
148	Thermochromic Lead-Free Halide Double Perovskites. <i>Advanced Functional Materials</i> , 2019 , 29, 180737	5 15.6	69
147	Trap-induced losses in hybrid photovoltaics. ACS Nano, 2014, 8, 3213-21	16.7	69
146	Control of exciton spin statistics through spin polarization in organic optoelectronic devices. <i>Nature Communications</i> , 2012 , 3, 1191	17.4	69
145	Stable and bright formamidinium-based perovskite light-emitting diodes with high energy conversion efficiency. <i>Nature Communications</i> , 2019 , 10, 3624	17.4	68
144	A new tetracyclic lactam building block for thick, broad-bandgap photovoltaics. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11578-81	16.4	67
143	Optical Energy Losses in OrganicIhorganic Hybrid Perovskite Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2018 , 6, 1800667	8.1	66
142	High-Performance Noncovalently Fused-Ring Electron Acceptors for Organic Solar Cells Enabled by Noncovalent Intramolecular Interactions and End-Group Engineering. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12475-12481	16.4	63
141	Emerging Approaches in Enhancing the Efficiency and Stability in Non-Fullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2002746	21.8	58
140	Application of weak ferromagnetic BiFeO3 films as the photoelectrode material under visible-light irradiation. <i>Applied Physics Letters</i> , 2007 , 91, 022114	3.4	58
139	Diffusion-Limited Crystallization: A Rationale for the Thermal Stability of Non-Fullerene Solar Cells. <i>ACS Applied Materials & Diffusion (Control of Control of Cont</i>	9.5	56
138	Bidirectional optical signal transmission between two identical devices using perovskite diodes. <i>Nature Electronics</i> , 2020 , 3, 156-164	28.4	56
137	A guest-assisted molecular-organization approach for >17% efficiency organic solar cells using environmentally friendly solvents. <i>Nature Energy</i> ,	62.3	54
136	Precisely Controlling the Grain Sizes with an Ammonium Hypophosphite Additive for High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1802320	15.6	53

135	Mechanisms and Suppression of Photoinduced Degradation in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2002326	21.8	53	
134	Perovskite-molecule composite thin films for efficient and stable light-emitting diodes. <i>Nature Communications</i> , 2020 , 11, 891	17.4	52	
133	Understanding energetic disorder in electron-deficient-core-based non-fullerene solar cells. <i>Science China Chemistry</i> , 2020 , 63, 1159-1168	7.9	52	
132	Inverted all-polymer solar cells based on a quinoxalinethiophene/naphthalene-diimide polymer blend improved by annealing. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3835-3843	13	51	
131	Oxygen- and Water-Induced Energetics Degradation in Organometal Halide Perovskites. <i>ACS Applied Materials & Degradation in Organometal Halide Perovskites</i> . <i>ACS Applied Materials & Degradation in Organometal Halide Perovskites</i> . <i>ACS Applied Materials & Degradation in Organometal Halide Perovskites</i> .	9.5	48	
130	The role of charge recombination to triplet excitons in organic solar cells. <i>Nature</i> , 2021 , 597, 666-671	50.4	48	
129	Organic-Inorganic Hybrid Ruddlesden-Popper Perovskites: An Emerging Paradigm for High-Performance Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2251-2258	6.4	47	
128	Triplet Acceptors with a D-A Structure and Twisted Conformation for Efficient Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15043-15049	16.4	45	
127	Lead-Free Halide Double Perovskite Cs AgBiBr with Decreased Band Gap. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15191-15194	16.4	44	
126	Revealing Morphology Evolution in Highly Efficient Bulk Heterojunction and Pseudo-Planar Heterojunction Solar Cells by Additives Treatment. <i>Advanced Energy Materials</i> , 2021 , 11, 2003390	21.8	44	
125	Defect Passivation for Red Perovskite Light-Emitting Diodes with Improved Brightness and Stability. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 380-385	6.4	43	
124	Critical role of additive-induced molecular interaction on the operational stability of perovskite light-emitting diodes. <i>Joule</i> , 2021 , 5, 618-630	27.8	42	
123	A minimal non-radiative recombination loss for efficient non-fullerene all-small-molecule organic solar cells with a low energy loss of 0.54 eV and high open-circuit voltage of 1.15 V. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13918-13924	13	42	
122	The Effect of Processing Additives on Energetic Disorder in Highly Efficient Organic Photovoltaics: A Case Study on PBDTTT-C-T:PC71 BM. <i>Advanced Materials</i> , 2015 , 27, 3868-73	24	41	
121	Suppression of Recombination Energy Losses by Decreasing the Energetic Offsets in Perylene Diimide-Based Nonfullerene Organic Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 2729-2735	20.1	41	
120	All-Polymer Solar Cells with over 12% Efficiency and a Small Voltage Loss Enabled by a Polymer Acceptor Based on an Extended Fused Ring Core. <i>Advanced Energy Materials</i> , 2020 , 10, 2001408	21.8	40	
119	Phenylalkylammonium passivation enables perovskite light emitting diodes with record high-radiance operational lifetime: the chain length matters. <i>Nature Communications</i> , 2021 , 12, 644	17.4	40	
118	Effects of ultraviolet soaking on surface electronic structures of solution processed ZnO nanoparticle films in polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17676-17682	13	39	

117	Deciphering the Role of Chalcogen-Containing Heterocycles in Nonfullerene Acceptors for Organic Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 3415-3425	20.1	39
116	Fluorinated End Group Enables High-Performance All-Polymer Solar Cells with Near-Infrared Absorption and Enhanced Device Efficiency over 14%. <i>Advanced Energy Materials</i> , 2021 , 11, 2003171	21.8	39
115	Enhanced photocatalytic efficiency of CN/BiFeO heterojunctions: the synergistic effects of band alignment and ferroelectricity. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 3648-3657	3.6	37
114	A universal method for constructing high efficiency organic solar cells with stacked structures. <i>Energy and Environmental Science</i> , 2021 , 14, 2314-2321	35.4	37
113	Efficient non-fullerene organic solar cells employing sequentially deposited donor\(\text{Bcceptor layers}\). Journal of Materials Chemistry A, 2018 , 6, 18225-18233	13	36
112	Lead-Free Double Perovskite Cs2AgBiBr6: Fundamentals, Applications, and Perspectives. <i>Advanced Functional Materials</i> ,2105898	15.6	35
111	Realizing Efficient Charge/Energy Transfer and Charge Extraction in Fullerene-Free Organic Photovoltaics via a Versatile Third Component. <i>Nano Letters</i> , 2019 , 19, 5053-5061	11.5	34
110	Synthesis of unstable colloidal inorganic nanocrystals through the introduction of a protecting ligand. <i>Nano Letters</i> , 2014 , 14, 3117-23	11.5	33
109	Regular Energetics at Conjugated Electrolyte/Electrode Modifier for Organic Electronics and their Implications on Design Rules. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500204	4.6	33
108	Ultra-Bright Near-Infrared Perovskite Light-Emitting Diodes with Reduced Efficiency Roll-off. <i>Scientific Reports</i> , 2018 , 8, 15496	4.9	33
107	Reproducible Planar Heterojunction Solar Cells Based on One-Step Solution-Processed Methylammonium Lead Halide Perovskites. <i>Chemistry of Materials</i> , 2017 , 29, 462-473	9.6	32
106	Memristive devices based on solution-processed ZnO nanocrystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 484-487	1.6	32
105	Charge order suppression and weak ferromagnetism in La1BSr2BFeO3 nanoparticles. <i>Applied Physics Letters</i> , 2007 , 91, 072504	3.4	31
104	All-polymer solar cells with over 16% efficiency and enhanced stability enabled by compatible solvent and polymer additives. <i>Aggregate</i> ,e58	22.9	31
103	Decoupling the effects of defects on efficiency and stability through phosphonates in stable halide perovskite solar cells. <i>Joule</i> , 2021 , 5, 1246-1266	27.8	30
102	Strong self-trapping by deformation potential limits photovoltaic performance in bismuth double perovskite. <i>Science Advances</i> , 2021 , 7,	14.3	30
101	Approximately 800-nm-Thick Pinhole-Free Perovskite Films via Facile Solvent Retarding Process for Efficient Planar Solar Cells. <i>ACS Applied Materials & District Research</i> , 8, 34446-34454	9.5	29
100	Side-Chain Engineering for Enhancing the Molecular Rigidity and Photovoltaic Performance of Noncovalently Fused-Ring Electron Acceptors. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17	72 ¹⁶ -17	7 2 8

(2016-2019)

99	Surface Chlorination of ZnO for Perovskite Solar Cells with Enhanced Efficiency and Stability. <i>Solar Rrl</i> , 2019 , 3, 1900154	7.1	28
98	Low-power write-once-read-many-times memory devices. <i>Applied Physics Letters</i> , 2010 , 97, 053301	3.4	28
97	Entirely solution-processed write-once-read-many-times memory devices and their operation mechanism. <i>Organic Electronics</i> , 2011 , 12, 1271-1274	3.5	28
96	High-Quality Ruddlesden-Popper Perovskite Films Based on In Situ Formed Organic Spacer Cations. <i>Advanced Materials</i> , 2019 , 31, e1904243	24	27
95	Intermediate-phase-assisted low-temperature formation of ECsPbI films for high-efficiency deep-red light-emitting devices. <i>Nature Communications</i> , 2020 , 11, 4736	17.4	27
94	A disorder-free conformation boosts phonon and charge transfer in an electron-deficient-core-based non-fullerene acceptor. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8566-85	1 4	27
93	Facet orientation tailoring via 2D-seed- induced growth enables highly efficient and stable perovskite solar cells. <i>Joule</i> , 2022 ,	27.8	26
92	Magnetizing lead-free halide double perovskites. Science Advances, 2020, 6,	14.3	25
91	Semi-three-dimensional algorithm for time-resolved diffuse optical tomography by use of the generalized pulse spectrum technique. <i>Applied Optics</i> , 2002 , 41, 7346-58	1.7	25
90	Advances in solution-processed near-infrared light-emitting diodes. <i>Nature Photonics</i> , 2021 , 15, 656-669	33.9	25
89	A New Acceptor for Highly Efficient Organic Solar Cells. <i>Joule</i> , 2019 , 3, 908-909	27.8	23
88	Energetics at Doped Conjugated Polymer/Electrode Interfaces. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400403	4.6	23
87	Reducing energy loss via tuning energy levels of polymer acceptors for efficient all-polymer solar cells. <i>Science China Chemistry</i> , 2020 , 63, 1785-1792	7.9	23
86	Bright Free Exciton Electroluminescence from Mn-Doped Two-Dimensional Layered Perovskites. Journal of Physical Chemistry Letters, 2019 , 10, 3171-3175	6.4	22
85	A dual ternary system for highly efficient ITO-free inverted polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18365-18371	13	21
84	Preparation of aligned Ca3Co2O6 nanorods and their steplike magnetization. <i>Applied Physics Letters</i> , 2007 , 91, 042505	3.4	21
83	High-Brightness Perovskite Light-Emitting Diodes Based on FAPbBr3 Nanocrystals with Rationally Designed Aromatic Ligands. <i>ACS Energy Letters</i> , 2021 , 6, 2395-2403	20.1	20
82	Morphology, Temperature, and Field Dependence of Charge Separation in High-Efficiency Solar Cells Based on Alternating Polyquinoxaline Copolymer. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 4219-	-4226	19

81	Disodium edetate as a promising interfacial material for inverted organic solar cells and the device performance optimization. <i>ACS Applied Materials & Discrete Amplied Materials & Discrete </i>	9.5	19
80	Charge Generation via Relaxed Charge-Transfer States in Organic Photovoltaics by an Energy-Disorder-Driven Entropy Gain. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12640-12646	3.8	19
79	Light-induced degradation of fullerenes in organic solar cells: a case study on TQ1:PC71BM. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11884-11889	13	19
78	Quantifying Loss Mechanisms in Polymer:Fullerene Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2012 , 2, 956-961	21.8	18
77	Enhanced charge transport by incorporating additional thiophene units in the poly(fluorene-thienyl-benzothiadiazole) polymer. <i>Organic Electronics</i> , 2011 , 12, 461-471	3.5	18
76	Synthesis and magnetic properties of Pr0.57Ca0.43MnO3 nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 136, 96-100	3.1	18
75	Experimentally Validated Hopping-Transport Model for Energetically Disordered Organic Semiconductors. <i>Physical Review Applied</i> , 2019 , 12,	4.3	18
74	Asymmetric electron acceptor enables highly luminescent organic solar cells with certified efficiency over 18 <i>Nature Communications</i> , 2022 , 13, 2598	17.4	18
73	Efficient and Tunable Electroluminescence from In Situ Synthesized Perovskite Quantum Dots. <i>Small</i> , 2019 , 15, e1804947	11	17
72	Inhomogeneous degradation in metal halide perovskites. <i>Applied Physics Letters</i> , 2017 , 111, 073302	3.4	17
71	Near-Infrared Light-Responsive Cu-Doped Cs2AgBiBr6. Advanced Functional Materials, 2020, 30, 200552	2 1 15.6	17
70	Two Compatible Polymer Donors Enabling Ternary Organic Solar Cells with a Small Nonradiative Energy Loss and Broad Composition Tolerance. <i>Solar Rrl</i> , 2020 , 4, 2000396	7.1	17
69	Pulsed Terahertz Emission from Solution-Processed Lead Iodide Perovskite Films. <i>ACS Photonics</i> , 2019 , 6, 1175-1181	6.3	17
68	Efficient perovskite light-emitting diodes based on a solution-processed tin dioxide electron transport layer. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6996-7002	7.1	16
67	Accurate photovoltaic measurement of organic cells for indoor applications. <i>Joule</i> , 2021 , 5, 1016-1023	27.8	16
66	High-performance all-polymer solar cells enabled by a novel low bandgap non-fully conjugated polymer acceptor. <i>Science China Chemistry</i> , 2021 , 64, 1380-1388	7.9	16
65	Manipulating crystallization dynamics through chelating molecules for bright perovskite emitters. <i>Nature Communications</i> , 2021 , 12, 4831	17.4	16
64	Degradation and self-repairing in perovskite light-emitting diodes. <i>Matter</i> , 2021 ,	12.7	16

63	Metal Doping/Alloying of Cesium Lead Halide Perovskite Nanocrystals and their Applications in Light-Emitting Diodes with Enhanced Efficiency and Stability. <i>Israel Journal of Chemistry</i> , 2019 , 59, 695-	-7ð 7	15
62	Thermal-induced interface degradation in perovskite light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15079-15085	7.1	15
61	Critical role of the external bias in improving the performance of polymer solar cells with a small molecule electrolyte interlayer. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 504-508	13	14
60	Spectral-Stable Blue Emission from Moisture-Treated Low-Dimensional Lead Bromide-Based Perovskite Films. <i>ACS Photonics</i> , 2019 , 6, 1728-1735	6.3	13
59	Lead-Free Halide Double Perovskite Cs2AgBiBr6 with Decreased Band Gap. <i>Angewandte Chemie</i> , 2020 , 132, 15303-15306	3.6	13
58	Double Active Layers Constructed with Halide Perovskite and Quantum Dots for Broadband Photodetection. <i>Advanced Optical Materials</i> , 2020 , 8, 2000557	8.1	13
57	Mechanism study on organic ternary photovoltaics with 18.3% certified efficiency: from molecule to device. <i>Energy and Environmental Science</i> ,	35.4	13
56	Effects of substrate temperature on Bi0.8La0.2FeO3 thin films prepared by pulsed laser deposition. <i>Thin Solid Films</i> , 2007 , 515, 5366-5373	2.2	12
55	Control of Donor Acceptor Photophysics through Structural Modification of a II wisting Push Pull Molecule. <i>Chemistry of Materials</i> , 2019 , 31, 6860-6869	9.6	11
54	Spacer Cation Alloying in Ruddlesden-Popper Perovskites for Efficient Red Light-Emitting Diodes with Precisely Tunable Wavelengths. <i>Advanced Materials</i> , 2021 , 33, e2104381	24	11
53	High-Performance Noncovalently Fused-Ring Electron Acceptors for Organic Solar Cells Enabled by Noncovalent Intramolecular Interactions and End-Group Engineering. <i>Angewandte Chemie</i> , 2021 , 133, 12583-12589	3.6	11
52	Dynamic Redistribution of Mobile Ions in Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2021 , 31, 2007596	15.6	11
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