Feng Gao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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

#	Paper	IF	Citations
224	Light-Emitting Diodes Based on Two-Dimensional Nanoplatelets. <i>Energy Material Advances</i> , 2022 , 2022, 1-24	1	1
223	Facet orientation tailoring via 2D-seed- induced growth enables highly efficient and stable perovskite solar cells. <i>Joule</i> , 2022 ,	27.8	26
222	Interfacial engineering from material to solvent: A mechanistic understanding on stabilizing Formamidinium lead triiodide perovskite photovoltaics. <i>Nano Energy</i> , 2022 , 94, 106924	17.1	3
221	New insights in construction of three-dimensional donor/acceptor interface for high performance perovskite solar cells the preparation of wolf tooth stick-like TiO2. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 128958	5.1	O
220	Mapping the energy level alignment at donor/acceptor interfaces in non-fullerene organic solar cells <i>Nature Communications</i> , 2022 , 13, 2046	17.4	5
219	Asymmetric electron acceptor enables highly luminescent organic solar cells with certified efficiency over 18 <i>Nature Communications</i> , 2022 , 13, 2598	17.4	18
218	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
217	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
216	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
215	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
214	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
213	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
212	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
211	Extended Nonfullerene Acceptors for Efficient Organic Solar Cells with a High Open-Circuit Voltage of 0.94 V and a Low Energy Loss of 0.49 eV. <i>ACS Applied Materials & Discrete </i>	9.5	6
21 0	Accurate photovoltaic measurement of organic cells for indoor applications. <i>Joule</i> , 2021 , 5, 1016-1023	27.8	16
209	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
208	Color-Stable Blue Light-Emitting Diodes Enabled by Effective Passivation of Mixed Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6041-6047	6.4	7

207	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	
206	A unified description of non-radiative voltage losses in organic solar cells. <i>Nature Energy</i> , 2021 , 6, 799-	806 2.3	70	
205	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	
204	Impact of Amine Additives on Perovskite Precursor Aging: A Case Study of Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2021 , 12, 5836-5843	6.4	3	
203	Side-Chain Engineering for Enhancing the Molecular Rigidity and Photovoltaic Performance of Noncovalently Fused-Ring Electron Acceptors. <i>Angewandte Chemie</i> , 2021 , 133, 17861-17866	3.6	2	
202	Carrier Mobility Dynamics under Actual Working Conditions of Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 14567-14575	3.8	0	
201	Mechanisms and Suppression of Photoinduced Degradation in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2002326	21.8	53	
200	Dynamic Redistribution of Mobile Ions in Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2021 , 31, 2007596	15.6	11	
199	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	
198	Carrier Dynamics and Evaluation of Lasing Actions in Halide Perovskites. <i>Trends in Chemistry</i> , 2021 , 3, 34-46	14.8	11	
197	Metal halide perovskites for light-emitting diodes. <i>Nature Materials</i> , 2021 , 20, 10-21	27	322	
196	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	
195	. IEEE Transactions on Computational Imaging, 2021 , 1-1	4.5	1	
194	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	
193	Mixed halide perovskites for spectrally stable and high-efficiency blue light-emitting diodes. <i>Nature Communications</i> , 2021 , 12, 361	17.4	119	
192	Highly efficient fused ring electron acceptors based on a new undecacyclic core. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 2001-2006	7.8	1	
191	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	
190	Optimizing the Charge Carrier and Light Management of Nonfullerene Acceptors for Efficient Organic Solar Cells with Small Nonradiative Energy Losses. <i>Solar Rrl</i> , 2021 , 5, 2100008	7.1	6	

189	Effect of alloying on the dynamics of coherent acoustic phonons in bismuth double perovskite single crystals. <i>Optics Express</i> , 2021 , 29, 7948-7955	3.3	2
188	Strong self-trapping by deformation potential limits photovoltaic performance in bismuth double perovskite. <i>Science Advances</i> , 2021 , 7,	14.3	30
187	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
186	Aligning Transition Dipole Moment toward Light Amplification and Polarized Emission in Hybrid Perovskites. <i>Advanced Optical Materials</i> , 2021 , 9, 2100984	8.1	O
185	Non-fullerene acceptor photostability and its impact on organic solar cell lifetime. <i>Cell Reports Physical Science</i> , 2021 , 2, 100498	6.1	9
184	Advances in solution-processed near-infrared light-emitting diodes. <i>Nature Photonics</i> , 2021 , 15, 656-669	33.9	25
183	Mobile ions determine the luminescence yield of perovskite light-emitting diodes under pulsed operation. <i>Nature Communications</i> , 2021 , 12, 4899	17.4	9
182	Manipulating crystallization dynamics through chelating molecules for bright perovskite emitters. <i>Nature Communications</i> , 2021 , 12, 4831	17.4	16
181	In Situ Optical Studies on Morphology Formation in Organic Photovoltaic Blends <i>Small Methods</i> , 2021 , 5, e2100585	12.8	6
180	Enhancing the Photovoltaic Performance of Triplet Acceptors Enabled by Side-Chain Engineering. <i>Solar Rrl</i> , 2021 , 5, 2100522	7.1	3
179	The role of charge recombination to triplet excitons in organic solar cells. <i>Nature</i> , 2021 , 597, 666-671	50.4	48
178	Degradation and self-repairing in perovskite light-emitting diodes. <i>Matter</i> , 2021 ,	12.7	16
177	Organic nanocrystals induced surface passivation towards high-efficiency and stable perovskite solar cells. <i>Nano Energy</i> , 2021 , 89, 106445	17.1	5
176	Reversible Ionic Polarization in Metal Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 283	- <u>3.8</u> 9	2
175	Magnetizing lead-free halide double perovskites. Science Advances, 2020, 6,	14.3	25
174	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
173	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
172	Dimensional Tailoring of Ultrahigh Vacuum Annealing-Assisted Quantum Wells for the Efficiency Enhancement of Perovskite Light-Emitting Diodes. <i>ACS Applied Materials & Diodes amp; Interfaces</i> , 2020 , 12, 24965-24970	9.5	2

(2020-2020)

171	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
170	Effect of Crystal Symmetry on the Spin States of Fe and Vibration Modes in Lead-free Double-Perovskite CsAgBi(Fe)Br. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4873-4878	6.4	3
169	Triplet Acceptors with a D-A Structure and Twisted Conformation for Efficient Organic Solar Cells. <i>Angewandte Chemie</i> , 2020 , 132, 15153-15159	3.6	6
168	Lead-Free Halide Double Perovskite Cs AgBiBr with Decreased Band Gap. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15191-15194	16.4	44
167	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
166	Lead-Free Halide Double Perovskite Cs2AgBiBr6 with Decreased Band Gap. <i>Angewandte Chemie</i> , 2020 , 132, 15303-15306	3.6	13
165	Double Active Layers Constructed with Halide Perovskite and Quantum Dots for Broadband Photodetection. <i>Advanced Optical Materials</i> , 2020 , 8, 2000557	8.1	13
164	Bidirectional optical signal transmission between two identical devices using perovskite diodes. <i>Nature Electronics</i> , 2020 , 3, 156-164	28.4	56
163	Single-Junction Organic Photovoltaic Cells with Approaching 18% Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1908205	24	896
162	Diluted Organic Semiconductors in Photovoltaics. <i>Solar Rrl</i> , 2020 , 4, 2000261	7.1	3
162 161	Diluted Organic Semiconductors in Photovoltaics. <i>Solar Rrl</i> , 2020 , 4, 2000261 A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , 2020 , 369, 96-102	7.1 33-3	231
		<u> </u>	231
161	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , 2020 , 369, 96-102 Perovskite-molecule composite thin films for efficient and stable light-emitting diodes. <i>Nature</i>	33.3	231
161 160	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , 2020 , 369, 96-102 Perovskite-molecule composite thin films for efficient and stable light-emitting diodes. <i>Nature Communications</i> , 2020 , 11, 891 Efficient and Spectrally Stable Blue Perovskite Light-Emitting Diodes Based on Potassium	33.3	231
161 160 159	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , 2020 , 369, 96-102 Perovskite-molecule composite thin films for efficient and stable light-emitting diodes. <i>Nature Communications</i> , 2020 , 11, 891 Efficient and Spectrally Stable Blue Perovskite Light-Emitting Diodes Based on Potassium Passivated Nanocrystals. <i>Advanced Functional Materials</i> , 2020 , 30, 1908760 Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite	33·3 17·4 15.6	2315270
161 160 159 158	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , 2020 , 369, 96-102 Perovskite-molecule composite thin films for efficient and stable light-emitting diodes. <i>Nature Communications</i> , 2020 , 11, 891 Efficient and Spectrally Stable Blue Perovskite Light-Emitting Diodes Based on Potassium Passivated Nanocrystals. <i>Advanced Functional Materials</i> , 2020 , 30, 1908760 Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. <i>Nature Energy</i> , 2020 , 5, 131-140 Barrierless Free Charge Generation in the High-Performance PM6:Y6 Bulk Heterojunction	33·3 17·4 15.6	2315270552
161 160 159 158	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , 2020 , 369, 96-102 Perovskite-molecule composite thin films for efficient and stable light-emitting diodes. <i>Nature Communications</i> , 2020 , 11, 891 Efficient and Spectrally Stable Blue Perovskite Light-Emitting Diodes Based on Potassium Passivated Nanocrystals. <i>Advanced Functional Materials</i> , 2020 , 30, 1908760 Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. <i>Nature Energy</i> , 2020 , 5, 131-140 Barrierless Free Charge Generation in the High-Performance PM6:Y6 Bulk Heterojunction Non-Fullerene Solar Cell. <i>Advanced Materials</i> , 2020 , 32, e1906763 Understanding energetic disorder in electron-deficient-core-based non-fullerene solar cells. <i>Science</i>	33·3 17·4 15.6 62·3	231 52 70 552 169

153	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
152	Reducing Voltage Losses in the A-DA?D-A Acceptor-Based Organic Solar Cells. <i>CheM</i> , 2020 , 6, 2147-2167	116.2	73
151	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
150	Ultrathin Single-Crystalline 2D Perovskite Photoconductor for High-Performance Narrowband and Wide Linear Dynamic Range Photodetection. <i>Small</i> , 2020 , 16, e2005626	11	8
149	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
148	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
147	Promoting charge separation resulting in ternary organic solar cells efficiency over 17.5%. <i>Nano Energy</i> , 2020 , 78, 105272	17.1	80
146	Efficient and High-Luminance Perovskite Light-Emitting Diodes Based on CsPbBr Nanocrystals Synthesized from a Dual-Purpose Organic Lead Source. <i>Small</i> , 2020 , 16, e2003939	11	10
145	Effect of the Energy Offset on the Charge Dynamics in Nonfullerene Organic Solar Cells. <i>ACS Applied Materials & Dynamics amp; Interfaces</i> , 2020 , 12, 43984-43991	9.5	10
144	A Narrow-Bandgap n-Type Polymer with an Acceptor-Acceptor Backbone Enabling Efficient All-Polymer Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e2004183	24	114
143	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
142	Single-emissive-layer all-perovskite white light-emitting diodes employing segregated mixed halide perovskite crystals. <i>Chemical Science</i> , 2020 , 11, 11338-11343	9.4	7
141	Near-Infrared Light-Responsive Cu-Doped Cs2AgBiBr6. Advanced Functional Materials, 2020, 30, 200552	1 15.6	17
140	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
139	Thermal-induced interface degradation in perovskite light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15079-15085	7.1	15
138	From Generation to Extraction: A Time-Resolved Investigation of Photophysical Processes in Non-fullerene Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21283-21292	3.8	2
137	Large cation ethylammonium incorporated perovskite for efficient and spectra stable blue light-emitting diodes. <i>Nature Communications</i> , 2020 , 11, 4165	17.4	113
136	Recent Progresses on Defect Passivation toward Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1902650	21.8	283

135	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, 8566-8	574	27
134	The atomic-level structure of bandgap engineered double perovskite alloys CsAgIn Fe Cl. <i>Chemical Science</i> , 2020 , 12, 1730-1735	9.4	11
133	High-Quality Ruddlesden-Popper Perovskite Films Based on In Situ Formed Organic Spacer Cations. <i>Advanced Materials</i> , 2019 , 31, e1904243	24	27
132	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
131	Blue perovskite light-emitting diodes: progress, challenges and future directions. <i>Nanoscale</i> , 2019 , 11, 2109-2120	7.7	147
130	Thermochromic Lead-Free Halide Double Perovskites. <i>Advanced Functional Materials</i> , 2019 , 29, 180737	5 15.6	69
129	Efficient and Tunable Electroluminescence from In Situ Synthesized Perovskite Quantum Dots. <i>Small</i> , 2019 , 15, e1804947	11	17
128	Enabling low voltage losses and high photocurrent in fullerene-free organic photovoltaics. <i>Nature Communications</i> , 2019 , 10, 570	17.4	260
127	Control of DonorAcceptor Photophysics through Structural Modification of a Ilwisting Push Pull Molecule. <i>Chemistry of Materials</i> , 2019 , 31, 6860-6869	9.6	11
126	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
125	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
124	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
123	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
122	Surface Chlorination of ZnO for Perovskite Solar Cells with Enhanced Efficiency and Stability. <i>Solar Rrl</i> , 2019 , 3, 1900154	7.1	28
121	Bright Free Exciton Electroluminescence from Mn-Doped Two-Dimensional Layered Perovskites. Journal of Physical Chemistry Letters, 2019 , 10, 3171-3175	6.4	22
120	The crucial role of end group planarity for fused-ring electron acceptors in organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1642-1652	7.8	9
119	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
118	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

117	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
116	A New Acceptor for Highly Efficient Organic Solar Cells. <i>Joule</i> , 2019 , 3, 908-909	27.8	23
115	Fundamentals of Solar Cells and Light-Emitting Diodes 2019 , 1-35		2
114	Structural and Functional Diversity in Lead-Free Halide Perovskite Materials. <i>Advanced Materials</i> , 2019 , 31, e1900326	24	116
113	Rational molecular passivation for high-performance perovskite light-emitting diodes. <i>Nature Photonics</i> , 2019 , 13, 418-424	33.9	638
112	Sulfur vs. tellurium: the heteroatom effects on the nonfullerene acceptors. <i>Science China Chemistry</i> , 2019 , 62, 897-903	7.9	9
111	Recent progress toward perovskite light-emitting diodes with enhanced spectral and operational stability. <i>Materials Today Nano</i> , 2019 , 5, 100028	9.7	73
110	Stable and bright formamidinium-based perovskite light-emitting diodes with high energy conversion efficiency. <i>Nature Communications</i> , 2019 , 10, 3624	17.4	68
109	Modulating Structure Ordering via Side-Chain Engineering of Thieno[3,4-]thiophene-Based Electron Acceptors for Efficient Organic Solar Cells with Reduced Energy Losses. <i>ACS Applied Materials & Amp; Interfaces</i> , 2019 , 11, 35193-35200	9.5	5
108	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
107	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
106	Planar perovskite solar cells with long-term stability using ionic liquid additives. <i>Nature</i> , 2019 , 571, 245	-2504	697
105	Toward Quantitative Near Infrared Brain Functional Imaging: Lock-In Photon Counting Instrumentation Combined With Tomographic Reconstruction. <i>IEEE Access</i> , 2019 , 7, 86829-86842	3.5	5
104	Sparsity-regularized approaches to directly reconstructing hemodynamic response in brain functional diffuse optical tomography. <i>Applied Optics</i> , 2019 , 58, 863-870	1.7	3
103	A Kalman-based tomographic scheme for directly reconstructing activation levels of brain function. <i>Optics Express</i> , 2019 , 27, 3229-3246	3.3	10
102	Pulsed Terahertz Emission from Solution-Processed Lead Iodide Perovskite Films. <i>ACS Photonics</i> , 2019 , 6, 1175-1181	6.3	17
101	Reliability of charge carrier recombination data determined with charge extraction methods. <i>Journal of Applied Physics</i> , 2019 , 126, 205501	2.5	9
100	All-small-molecule organic solar cells with over 14% efficiency by optimizing hierarchical morphologies. <i>Nature Communications</i> , 2019 , 10, 5393	17.4	185

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99	Experimentally Validated Hopping-Transport Model for Energetically Disordered Organic Semiconductors. <i>Physical Review Applied</i> , 2019 , 12,	4.3	18
98	Efficient CsPbBr3 Perovskite Light-Emitting Diodes Enabled by Synergetic Morphology Control. <i>Advanced Optical Materials</i> , 2019 , 7, 1801534	8.1	89
97	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
96	Balanced Partnership between Donor and Acceptor Components in Nonfullerene Organic Solar Cells with >12% Efficiency. <i>Advanced Materials</i> , 2018 , 30, e1706363	24	148
95	Critical Role of Molecular Electrostatic Potential on Charge Generation in Organic Solar Cells. <i>Chinese Journal of Chemistry</i> , 2018 , 36, 491-494	4.9	125
94	Oxygen- and Water-Induced Energetics Degradation in Organometal Halide Perovskites. <i>ACS Applied Materials & Degradation in Organometal Halide Perovskites. ACS Applied Materials & Degradation in Organometal Halide Perovskites. ACS Applied Materials & Degradation in Organometal Halide Perovskites.</i>	9.5	48
93	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
92	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
91	Minimising efficiency roll-off in high-brightness perovskite light-emitting diodes. <i>Nature Communications</i> , 2018 , 9, 608	17.4	248
90	Organic solar cells based on non-fullerene acceptors. <i>Nature Materials</i> , 2018 , 17, 119-128	27	1743
90	Organic solar cells based on non-fullerene acceptors. <i>Nature Materials</i> , 2018 , 17, 119-128 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	1743 37
	Enhanced photocatalytic efficiency of CN/BiFeO heterojunctions: the synergistic effects of band		
89	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 Long Electron-Hole Diffusion Length in High-Quality Lead-Free Double Perovskite Films. <i>Advanced</i>	3.6	37
89	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 Long Electron-Hole Diffusion Length in High-Quality Lead-Free Double Perovskite Films. <i>Advanced Materials</i> , 2018 , 30, e1706246 Precisely Controlling the Grain Sizes with an Ammonium Hypophosphite Additive for	3.6	37 175
89 88 87	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 Long Electron-Hole Diffusion Length in High-Quality Lead-Free Double Perovskite Films. <i>Advanced Materials</i> , 2018 , 30, e1706246 Precisely Controlling the Grain Sizes with an Ammonium Hypophosphite Additive for High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1802320 High Performance and Stable All-Inorganic Metal Halide Perovskite-Based Photodetectors for	3.6 24 15.6	37 175 53
89 88 87 86	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 Long Electron-Hole Diffusion Length in High-Quality Lead-Free Double Perovskite Films. <i>Advanced Materials</i> , 2018 , 30, e1706246 Precisely Controlling the Grain Sizes with an Ammonium Hypophosphite Additive for High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1802320 High Performance and Stable All-Inorganic Metal Halide Perovskite-Based Photodetectors for Optical Communication Applications. <i>Advanced Materials</i> , 2018 , 30, e1803422 Optical Gaps of Organic Solar Cells as a Reference for Comparing Voltage Losses. <i>Advanced Energy</i>	3.6 24 15.6	3717553224
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