

Fei Huang

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.

385
papers

26,457
citations

81
h-index

151
g-index

396
ext. papers

30,750
ext. citations

12.6
avg, IF

7.46
L-index

#	Paper	IF	Citations
385	Side-chain engineering on conjugated porous polymer photocatalyst with adenine groups enables high-performance hydrogen evolution from water. <i>Polymer</i> , 2022 , 240, 124509	3.9	2
384	Layer-by-layer processed binary all-polymer solar cells with efficiency over 16% enabled by finely optimized morphology. <i>Nano Energy</i> , 2022 , 93, 106858	17.1	13
383	In-situ self-organized anode interlayer enables organic solar cells with simultaneously simplified processing and greatly improved efficiency to 17.8%. <i>Nano Energy</i> , 2022 , 93, 106814	17.1	8
382	N-alkyl chain modification in dithienobenzotriazole unit enabled efficient polymer donor for high-performance non-fullerene solar cells. <i>Journal of Energy Chemistry</i> , 2022 , 66, 382-389	12	4
381	Polythiophenes for organic solar cells with efficiency surpassing 17%. <i>Joule</i> , 2022 , 6, 647-661	27.8	17
380	A Vinylene-Linker-Based Polymer Acceptor Featuring Co-planar and Rigid Molecular Conformation Enables High-Performance All-Polymer Solar Cells.. <i>Advanced Materials</i> , 2022 , e2200361	24	22
379	Recent progress in organic solar cells (Part I material science). <i>Science China Chemistry</i> , 2022 , 65, 224-268	7.9	48
378	Fine-Tuning Batch Factors of Polymer Acceptors Enables a Binary All-Polymer Solar Cell with High Efficiency of 16.11%. <i>Advanced Energy Materials</i> , 2022 , 12, 2103193	21.8	8
377	Donor-Acceptor Copolymers with Rationally Regulated Side Chain Orientation for Polymer Solar Cells Processed by Non-Halogenated Solvent. <i>Organic Materials</i> , 2022 , 4, 18-27	1.9	1
376	Doping Compensation Enables High-Detectivity Infrared Organic Photodiodes for Image Sensing.. <i>Advanced Materials</i> , 2022 , e2201827	24	8
375	Stretchable transparent electrodes for conformable wearable organic photovoltaic devices. <i>Npj Flexible Electronics</i> , 2021 , 5,	10.7	6
374	Decoupling Complex Multi-Length-Scale Morphology in Non-Fullerene Photovoltaics with Nitrogen K-Edge Resonant Soft X-Ray Scattering. <i>Advanced Materials</i> , 2021 , e2107316	24	2
373	Extended Conjugated Polymer Acceptor Containing Thienylene-Vinylene-Thienylene Unit for High-Performance Thick-Film All-Polymer Solar Cells with Superior Long-Term Stability. <i>Advanced Energy Materials</i> , 2021 , 11, 2102559	21.8	23
372	Evidence That Sharp Interfaces Suppress Recombination in Thick Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56394-56403	9.5	1
371	Synchronously regulating the alkyl side-chain and regioisomer of polymerized small molecule acceptor enabling highly efficient all-polymer solar cells processed with non-halogenated solvent. <i>Chemical Engineering Journal</i> , 2021 , 133575	14.7	1
370	Sequentially Deposited Active Layer with Bulk-Heterojunction-like Morphology for Efficient Conventional and Inverted All-Polymer Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 13307-13315	6.1	5
369	Enabling High Efficiency of Hydrocarbon-Solvent Processed Organic Solar Cells through Balanced Charge Generation and Non-Radiative Loss. <i>Advanced Energy Materials</i> , 2021 , 11, 2101768	21.8	18

368	Evolution of the electronic structure in open-shell donor-acceptor organic semiconductors. <i>Nature Communications</i> , 2021 , 12, 5889	17.4	7
367	Manipulating Grain Boundary Defects in Conjugated Covalent Organic Frameworks Enabling Intrinsic Radical Generation for Photothermal Conversion. <i>Solar Rrl</i> , 2021 , 5, 2100762	7.1	1
366	An accurate, high-speed, portable bifunctional electrical detector for COVID-19. <i>Science China Materials</i> , 2021 , 64, 739-747	7.1	9
365	A Facile Synthesized Polymer Featuring B-N Covalent Bond and Small Singlet-Triplet Gap for High-Performance Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8813-8817	16.4	32
364	Recent progress in thick-film organic photovoltaic devices: Materials, devices, and processing. <i>SusMat</i> , 2021 , 1, 4-23		18
363	A Facile Synthesized Polymer Featuring B-N Covalent Bond and Small Singlet-Triplet Gap for High-Performance Organic Solar Cells. <i>Angewandte Chemie</i> , 2021 , 133, 8895-8899	3.6	7
362	Regio-Regular Polymer Acceptors Enabled by Determined Fluorination on End Groups for All-Polymer Solar Cells with 15.2 % Efficiency. <i>Angewandte Chemie</i> , 2021 , 133, 10225-10234	3.6	4
361	Regio-Regular Polymer Acceptors Enabled by Determined Fluorination on End Groups for All-Polymer Solar Cells with 15.2 % Efficiency. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10137-10146	16.4	53
360	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
359	Ternary organic photodiodes with spectral response from 300 to 1200 nm for spectrometer application. <i>Science China Materials</i> , 2021 , 64, 2430-2438	7.1	7
358	Heterometallic Seed-Mediated Zinc Deposition on Inkjet Printed Silver Nanoparticles Toward Foldable and Heat-Resistant Zinc Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2101607	15.6	35
357	Nonhalogenated-Solvent-Processed High-Performance All-Polymer Solar Cell with Efficiency over 14%. <i>Solar Rrl</i> , 2021 , 5, 2100076	7.1	10
356	Porphyrin-Based Conjugated Polyelectrolytes for Efficient Photocatalytic Hydrogen Evolution. <i>Macromolecules</i> , 2021 , 54, 4902-4909	5.5	5
355	Dual-Functional-Polymer Dopant-Passivant Boosted Electron Transport Layer for High-Performance Inverted Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100236	7.1	1
354	High-performance polymer solar cells with efficiency over 18% enabled by asymmetric side chain engineering of non-fullerene acceptors. <i>Science China Chemistry</i> , 2021 , 64, 1192-1199	7.9	65
353	Low-bandgap conjugated polymers based on benzodipyrrolidone with reliable unipolar electron mobility exceeding $1 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$. <i>Science China Chemistry</i> , 2021 , 64, 1219-1227	7.9	7
352	Dodecacyclic-Fused Electron Acceptors with Multiple Electron-Deficient Units for Efficient Organic Solar Cells. <i>ChemSusChem</i> , 2021 , 14, 3544-3552	8.3	7
351	Tandem Organic Solar Cells with 18.7% Efficiency Enabled by Suppressing the Charge Recombination in Front Sub-Cell. <i>Advanced Functional Materials</i> , 2021 , 31, 2103283	15.6	42

350	Surpassing 13% Efficiency for Polythiophene Organic Solar Cells Processed from Nonhalogenated Solvent. <i>Advanced Materials</i> , 2021 , 33, e2008158	24	39
349	High-Performance All-Polymer Solar Cells and Photodetectors Enabled by a High-Mobility n-Type Polymer and Optimized Bulk-Heterojunction Morphology. <i>Chemistry of Materials</i> , 2021 , 33, 3746-3756	9.6	4
348	Rational Anode Engineering Enables Progresses for Different Types of Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2100492	21.8	48
347	Truxene Functionalized Star-Shaped Non-fullerene Acceptor With Selenium-Annulated Perylene Diimides for Efficient Organic Solar Cells. <i>Frontiers in Chemistry</i> , 2021 , 9, 681994	5	1
346	Recent advances of interface engineering for non-fullerene organic solar cells. <i>Organic Electronics</i> , 2021 , 93, 106141	3.5	8
345	Organic diradicals enabled N-type self-doped conjugated polyelectrolyte with high transparency and enhanced conductivity. <i>Giant</i> , 2021 , 6, 100053	5.6	8
344	A Near-infrared Non-fullerene Acceptor with Thienopyrrole-expanded Benzo[1,2-b:4,5-b']dithiophene Core for Polymer Solar Cells. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021 , 39, 35-42	3.5	8
343	Asymmetric Alkoxy and Alkyl Substitution on Nonfullerene Acceptors Enabling High-Performance Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2003141	21.8	74
342	Morphology evolution with polymer chain propagation and its impacts on device performance and stability of non-fullerene solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 556-565	13	11
341	Constructing a new polymer acceptor enabled non-halogenated solvent-processed all-polymer solar cell with an efficiency of 13.8. <i>Chemical Communications</i> , 2021 , 57, 935-938	5.8	20
340	Copper Thiocyanate as an Anode Interfacial Layer for Efficient Near-Infrared Organic Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1027-1034	9.5	12
339	Aldol Condensation-Polymerized n -Doped Conjugated Polyelectrolytes for High-Performance Nonfullerene Polymer Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2000523	7.1	3
338	15.4% Efficiency all-polymer solar cells. <i>Science China Chemistry</i> , 2021 , 64, 408-412	7.9	48
337	A pyridinium-pended conjugated polyelectrolyte for efficient photocatalytic hydrogen evolution and organic solar cells. <i>Polymer Chemistry</i> , 2021 , 12, 1498-1506	4.9	5
336	Induced crystallization of sol-gel-derived zinc oxide for efficient non-fullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9616-9623	13	4
335	A facile strategy for third-component selection in non-fullerene acceptor-based ternary organic solar cells. <i>Energy and Environmental Science</i> , 2021 , 14, 5009-5016	35.4	46
334	Cu(II)-Porphyrin based near-infrared molecules: synthesis, characterization and photovoltaic application. <i>New Journal of Chemistry</i> , 2021 , 45, 1601-1608	3.6	2
333	Truxene-based covalent organic polyhedrons constructed through alkyne metathesis. <i>Organic Chemistry Frontiers</i> , 2021 , 8, 4723-4729	5.2	3

332	Ternary copolymers containing 3,4-dicyanothiophene for efficient organic solar cells with reduced energy loss. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13522-13530	13	11
331	Direct arylation polycondensation towards water/alcohol-soluble conjugated polymers as the electron transporting layers for organic solar cells. <i>Chemical Communications</i> , 2021 , 57, 5798-5801	5.8	0
330	All-polymer solar cells with efficiency approaching 16% enabled using a dithieno[3,2':3,4;2'',3'':5,6]benzo[1,2-c][1,2,5]thiadiazole (fDTBT)-based polymer donor. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 8975-8983	13	27
329	Shorter alkyl chain in thieno[3,4-c]pyrrole-4,6-dione (TPD)-based large bandgap polymer donors □ Yield efficient non-fullerene polymer solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 53, 69-76	12	5
328	A Well-Mixed Phase Formed by Two Compatible Non-Fullerene Acceptors Enables Ternary Organic Solar Cells with Efficiency over 18.6. <i>Advanced Materials</i> , 2021 , 33, e2101733	24	145
327	Overcoming incompatibility of donors and acceptors by constructing planar heterojunction organic solar cells. <i>Nano Energy</i> , 2021 , 85, 105957	17.1	15
326	Fine Tuning Miscibility of Donor/Acceptor through Solid Additives Enables All-Polymer Solar Cells with 15.6% Efficiency. <i>Solar Rrl</i> , 2021 , 5, 2100549	7.1	8
325	N-Type Quinoidal Polymers Based on Dipyrrolopyrazinedione for Application in All-Polymer Solar Cells. <i>Chemistry - A European Journal</i> , 2021 , 27, 13527-13533	4.8	3
324	Improving photovoltaic parameters of all-polymer solar cells through integrating two polymeric donors. <i>Science China Chemistry</i> , 2021 , 64, 2010	7.9	6
323	Optimized active layer morphology via side-chain atomic substituents to achieve efficient and stable all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 9515-9523	7.1	3
322	Heptacyclic S,N-Heteroacene-Based Near-Infrared Nonfullerene Acceptor Enables High-Performance Organic Solar Cells with Small Highest Occupied Molecular Orbital Offsets. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51776-51784	9.5	9
321	Dopamine Semiquinone Radical Doped PEDOT:PSS: Enhanced Conductivity, Work Function and Performance in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2000743	21.8	52
320	A pseudo-metal-free strategy for constructing high performance photoelectrodes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12767-12773	13	3
319	Manipulating Film Morphology of All-Polymer Solar Cells by Incorporating Polymer Compatibilizer. <i>Solar Rrl</i> , 2020 , 4, 2000148	7.1	8
318	Tailoring Regioisomeric Structures of EConjugated Polymers Containing Monofluorinated EBridges for Highly Efficient Polymer Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 2087-2094	20.1	63
317	Self-filtering narrowband high performance organic photodetectors enabled by manipulating localized Frenkel exciton dissociation. <i>Nature Communications</i> , 2020 , 11, 2871	17.4	55
316	14.4% efficiency all-polymer solar cell with broad absorption and low energy loss enabled by a novel polymer acceptor. <i>Nano Energy</i> , 2020 , 72, 104718	17.1	177
315	Nonfused Nonfullerene Acceptors with an A-D-AND-A Framework and a Benzothiadiazole Core for High-Performance Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16531-16540	9.5	44

314	Consecutive Charging of a Perylene Bisimide Dye by Multistep Low-Energy Solar-Light-Induced Electron Transfer Towards H Evolution. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10363-10367	16.4	25
313	Semitransparent Organic Solar Cells Enabled by a Sequentially Deposited Bilayer Structure. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18473-18481	9.5	33
312	Advanced functional polymer materials. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1803-1915	7.8	70
311	Metal-free hydrophilic D-A conjugated polyelectrolyte dots/g-C ₃ N ₄ nanosheets heterojunction for efficient and irradiation-stable water-splitting photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2020 , 270, 118852	21.8	27
310	Highly efficient, green-solvent processable, and stable non-fullerene polymer solar cells enabled by a random polymer donor. <i>Organic Electronics</i> , 2020 , 85, 105874	3.5	6
309	3,4-Dicyanothiophene—Versatile Building Block for Efficient Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1904247	21.8	35
308	Design and synthesis of an amino-functionalized non-fullerene acceptor as a cathode interfacial layer for polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5273-5279	7.1	9
307	Influence of the CN substitution position on the performance of dicyanodistyrylbenzene-based polymer solar cells. <i>Polymer Chemistry</i> , 2020 , 11, 1653-1662	4.9	2
306	Synergistic Effects of Polymer Donor Backbone Fluorination and Nitrogenation Translate into Efficient Non-Fullerene Bulk-Heterojunction Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9545-9554	9.5	13
305	Ternary All-Polymer Solar Cells With 8.5% Power Conversion Efficiency and Excellent Thermal Stability. <i>Frontiers in Chemistry</i> , 2020 , 8, 302	5	11
304	Consecutive Charging of a Perylene Bisimide Dye by Multistep Low-Energy Solar-Light-Induced Electron Transfer Towards H ₂ Evolution. <i>Angewandte Chemie</i> , 2020 , 132, 10449-10453	3.6	10
303	Oxoammonium enabled secondary doping of hole transporting material PEDOT:PSS for high-performance organic solar cells. <i>Science China Chemistry</i> , 2020 , 63, 802-809	7.9	15
302	Achieving Eco-Compatible Organic Solar Cells with Efficiency >16.5% Based on an Iridium Complex-Incorporated Polymer Donor. <i>Solar Rrl</i> , 2020 , 4, 2000156	7.1	29
301	Molecular design towards two-dimensional electron acceptors for efficient non-fullerene solar cells. <i>Journal of Energy Chemistry</i> , 2020 , 51, 190-198	12	2
300	Tetraphenylbenzosilole: An AIE Building Block for Deep-Blue Emitters with High Performance in Nondoped Spin-Coating OLEDs. <i>Journal of Organic Chemistry</i> , 2020 , 85, 158-167	4.2	18
299	Polymer Pre-Aggregation Enables Optimal Morphology and High Performance in All-Polymer Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900385	7.1	25
298	Chlorinated Fused Nonacyclic Non-Fullerene Acceptor Enables Efficient Large-Area Polymer Solar Cells with High Scalability. <i>Chemistry of Materials</i> , 2020 , 32, 1022-1030	9.6	20
297	A Layer-by-Layer Architecture for Printable Organic Solar Cells Overcoming the Scaling Lag of Module Efficiency. <i>Joule</i> , 2020 , 4, 407-419	27.8	159

296	Optimization of processing solvent and film morphology to achieve efficient non-fullerene polymer solar cells processed in air. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 270-275	7.1	6
295	Recent developments in carbon nitride based films for photoelectrochemical water splitting. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 485-503	5.8	44
294	Reduced Energy Loss in Non-Fullerene Organic Solar Cells with Isomeric Donor Polymers Containing Thiazole Spacers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 753-762	9.5	17
293	Electrical and spin switches in single-molecule junctions. <i>Information Materials</i> , 2020 , 2, 92-112	23.1	22
292	Near-infrared organic photoelectric materials for light-harvesting systems: Organic photovoltaics and organic photodiodes. <i>Information Materials</i> , 2020 , 2, 57-91	23.1	36
291	Water/Alcohol-Soluble Hyperbranched Polyelectrolytes and Their Application in Polymer Solar Cells and Photocatalysis. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 12-18	4.3	23
290	Achieving Efficient Thick Film All-polymer Solar Cells Using a Green Solvent Additive. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020 , 38, 323-331	3.5	24
289	Bithieno[3,4-c]pyrrole-4,6-dione-Mediated Crystallinity in Large-Bandgap Polymer Donors Directs Charge Transportation and Recombination in Efficient Nonfullerene Polymer Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 367-375	20.1	25
288	Reducing Voltage Losses in the A-DA?D-A Acceptor-Based Organic Solar Cells. <i>Chem</i> , 2020 , 6, 2147-2161	16.2	73
287	Tailoring the side chain of imide-functional benzotriazole based polymers to achieve internal quantum efficiency approaching 100%. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23519-23525	13	3
286	Selective Hole and Electron Transport in Efficient Quaternary Blend Organic Solar Cells. <i>Joule</i> , 2020 , 4, 1790-1805	27.8	79
285	Photoelectrochemical Performance Enhancement of ZnSe Nanorods versus Dots: Combined Experimental and Computational Insights. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 10414-10420	6.4	2
284	A Universal Fluorinated Polymer Acceptor Enables All-Polymer Solar Cells with >15% Efficiency. <i>ACS Energy Letters</i> , 2020 , 5, 3702-3707	20.1	98
283	A Truxenone-based Covalent Organic Framework as an All-Solid-State Lithium-Ion Battery Cathode with High Capacity. <i>Angewandte Chemie</i> , 2020 , 132, 20565-20569	3.6	1
282	A Truxenone-based Covalent Organic Framework as an All-Solid-State Lithium-Ion Battery Cathode with High Capacity. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20385-20389	16.4	45
281	Efficient Organic Ternary Solar Cells Employing Narrow Band Gap Diketopyrrolopyrrole Polymers and Nonfullerene Acceptors. <i>Chemistry of Materials</i> , 2020 , 32, 7309-7317	9.6	14
280	The regioisomeric bromination effects of fused-ring electron acceptors: modulation of the optoelectronic property and miscibility endowing the polymer solar cells with 15% efficiency. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25101-25108	13	10
279	Vertical Composition Distribution and Crystallinity Regulations Enable High-Performance Polymer Solar Cells with >17% Efficiency. <i>ACS Energy Letters</i> , 2020 , 5, 3637-3646	20.1	44

278	Growth of Multinary Copper-Based Sulfide Shells on CuInSe ₂ Nanocrystals for Significant Improvement of Their Near-Infrared Emission. <i>Chemistry of Materials</i> , 2020 , 32, 7842-7849	9.6	4
277	Direct arylation polycondensed conjugated polyelectrolytes as universal electron transport layers for highly efficient polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15158-15167	7.1	2
276	Single-Component Non-halogen Solvent-Processed High-Performance Organic Solar Cell Module with Efficiency over 14%. <i>Joule</i> , 2020 , 4, 2004-2016	27.8	99
275	Toward Efficient Tandem Organic Solar Cells: From Materials to Device Engineering. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39937-39947	9.5	11
274	High-Detectivity Non-Fullerene Organic Photodetectors Enabled by a Cross-Linkable Electron Blocking Layer. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45092-45100	9.5	17
273	Visible-to-near-infrared organic photodiodes with performance comparable to commercial silicon-based detectors. <i>Applied Physics Letters</i> , 2020 , 117, 093302	3.4	20
272	Solution-Processed Polymer Solar Cells with over 17% Efficiency Enabled by an Iridium Complexation Approach. <i>Advanced Energy Materials</i> , 2020 , 10, 2000590	21.8	93
271	Hydrophilic Conjugated Materials for Photocatalytic Hydrogen Evolution. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 1780-1790	4.5	32
270	Three-dimensional organic cage with narrowband delayed fluorescence. <i>Science China Chemistry</i> , 2020 , 63, 897-903	7.9	4
269	Realizing high hydrogen evolution activity under visible light using narrow band gap organic photocatalysts. <i>Chemical Science</i> , 2020 , 12, 1796-1802	9.4	34
268	Ambient Processable and Stable All-Polymer Organic Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1806747	15.6	77
267	Surpassing the 10% efficiency milestone for 1-cm all-polymer solar cells. <i>Nature Communications</i> , 2019 , 10, 4100	17.4	96
266	Backbone Fluorination of Polythiophenes Improves Device Performance of Non-Fullerene Polymer Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7572-7583	6.1	21
265	Optimizing Microstructure Morphology and Reducing Electronic Losses in 1 cm ² Polymer Solar Cells to Achieve Efficiency over 15%. <i>ACS Energy Letters</i> , 2019 , 4, 2466-2472	20.1	50
264	Understanding of Imine Substitution in Wide-Bandgap Polymer Donor-Induced Efficiency Enhancement in All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 8533-8542	9.6	30
263	A generic green solvent concept boosting the power conversion efficiency of all-polymer solar cells to 11%. <i>Energy and Environmental Science</i> , 2019 , 12, 157-163	35.4	219
262	15% Efficiency Tandem Organic Solar Cell Based on a Novel Highly Efficient Wide-Bandgap Nonfullerene Acceptor with Low Energy Loss. <i>Advanced Energy Materials</i> , 2019 , 9, 1803657	21.8	120
261	Improving the efficiency and stability of non-fullerene polymer solar cells by using N2200 as the Additive. <i>Nano Energy</i> , 2019 , 58, 724-731	17.1	36

260	Biomass Nanomicelles Assist Conjugated Polymers/Pt Cocatalysts To Achieve High Photocatalytic Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4128-4135	8.3	27
259	Fused nonacyclic electron acceptors with additional alkyl side chains for efficient polymer solar cells. <i>Organic Electronics</i> , 2019 , 68, 151-158	3.5	7
258	Dark Current Reduction Strategy via a Layer-By-Layer Solution Process for a High-Performance All-Polymer Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8350-8356	9.5	36
257	High-performance inverted polymer solar cells without an electron extraction layer via a one-step coating of cathode buffer and active layer. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1429-1434	13	15
256	One-Step Blade-Coated Highly Efficient Nonfullerene Organic Solar Cells with a Self-Assembled Interfacial Layer Enabled by Solvent Vapor Annealing. <i>Solar Rrl</i> , 2019 , 3, 1900179	7.1	11
255	Efficient Non-Fullerene Organic Solar Cells Based on a Wide-Bandgap Polymer Donor Containing an Alkylthiophenyl-Substituted Benzodithiophene Moiety. <i>ChemPhysChem</i> , 2019 , 20, 2668-2673	3.2	4
254	Efficient tandem polymer light-emitting diodes with PTPA-P/ZnO as the charge generation layer. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8003-8010	7.1	3
253	Synthesis of medium bandgap copolymers based on benzotriazole for non-fullerene organic solar cells. <i>Polymer</i> , 2019 , 179, 121580	3.9	3
252	An efficient binary cathode interlayer for large-bandgap non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12426-12433	13	15
251	A Wide-Bandgap Conjugated Polymer Based on Quinoxalino[6,5-f]quinoxaline for Fullerene and Non-Fullerene Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1900120	4.8	6
250	High-detectivity organic photodetectors based on a thick-film photoactive layer using a conjugated polymer containing a naphtho[1,2-c:5,6-c]bis[1,2,5]thiadiazole unit. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6070-6076	7.1	17
249	High open-circuit voltage organic solar cells enabled by a difluorobenzoxadiazole-based conjugated polymer donor. <i>Science China Chemistry</i> , 2019 , 62, 829-836	7.9	10
248	High-performance non-fullerene polymer solar cells based on naphthobistriazole wide bandgap donor copolymers. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 4709-4715	7.1	0
247	Conjugated Polymers with Oligoethylene Glycol Side Chains for Improved Photocatalytic Hydrogen Evolution. <i>IScience</i> , 2019 , 13, 33-42	6.1	67
246	High-Performance All-Polymer Photodetectors via a Thick Photoactive Layer Strategy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14208-14214	9.5	27
245	Achieving over 16% efficiency for single-junction organic solar cells. <i>Science China Chemistry</i> , 2019 , 62, 746-752	7.9	723
244	Highly efficient photocatalytic hydrogen evolution from water-soluble conjugated polyelectrolytes. <i>Nano Energy</i> , 2019 , 60, 775-783	17.1	51
243	In Situ Structure Characterization in Slot-Die-Printed All-Polymer Solar Cells with Efficiency Over 9%. <i>Solar Rrl</i> , 2019 , 3, 1900032	7.1	14

242	Highly smooth, stable and reflective Ag-paper electrode enabled by silver mirror reaction for organic optoelectronics. <i>Chemical Engineering Journal</i> , 2019 , 370, 1048-1056	14.7	22
241	Water-Soluble Conjugated Molecule for Solar-Driven Hydrogen Evolution from Salt Water. <i>Advanced Functional Materials</i> , 2019 , 29, 1808156	15.6	46
240	Ultrasensitive Solution-Processed Broadband PbSe Photodetectors through Photomultiplication Effect. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9205-9212	9.5	18
239	Recent Progress in All-Polymer Solar Cells Based on Wide-Bandgap p-Type Polymers. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3109-3118	4.5	13
238	Alkyl Chain Length Effects of Polymer Donors on the Morphology and Device Performance of Polymer Solar Cells with Different Acceptors. <i>Advanced Energy Materials</i> , 2019 , 9, 1901740	21.8	60
237	Amino-functionalised conjugated porous polymers for improved photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19087-19093	13	27
236	Morphology optimization via molecular weight tuning of donor polymer enables all-polymer solar cells with simultaneously improved performance and stability. <i>Nano Energy</i> , 2019 , 64, 103931	17.1	55
235	Aqueous-Soluble Naphthalene Diimide-Based Polymer Acceptors for Efficient and Air-Stable All-Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45038-45047	9.5	30
234	Substituent Regulation Improves Photocatalytic Hydrogen Evolution of Conjugated Polyelectrolytes 2019 , 1, 620-627		16
233	Impact of Donor-Acceptor Interaction and Solvent Additive on the Vertical Composition Distribution of Bulk Heterojunction Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45979-45990	9.5	25
232	Molecular packing control enables excellent performance and mechanical property of blade-cast all-polymer solar cells. <i>Nano Energy</i> , 2019 , 59, 277-284	17.1	39
231	Impact of Bimolecular Recombination on the Fill Factor of Fullerene and Nonfullerene-Based Solar Cells: A Comparative Study of Charge Generation and Extraction. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6823-6830	3.8	17
230	Energy level modulation of donor-acceptor alternating random conjugated copolymers for achieving high-performance polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 15335-15343	7.1	5
229	Aromatic inorganic acid radical. <i>Science China Chemistry</i> , 2019 , 62, 1656-1665	7.9	12
228	Suppressing the excessive aggregation of nonfullerene acceptor in blade-coated active layer by using n-type polymer additive to achieve large-area printed organic solar cells with efficiency over 15%. <i>EcoMat</i> , 2019 , 1, e12006	9.4	28
227	Efficient organic-inorganic hybrid cathode interfacial layer enabled by polymeric dopant and its application in large-area polymer solar cells. <i>Science China Chemistry</i> , 2019 , 62, 67-73	7.9	14
226	High-Performance Large-Area Organic Solar Cells Enabled by Sequential Bilayer Processing via Nonhalogenated Solvents. <i>Advanced Energy Materials</i> , 2019 , 9, 1802832	21.8	100
225	Polythiophene derivatives compatible with both fullerene and non-fullerene acceptors for polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 314-323	7.1	29

224	Fluoro- and Amino-Functionalized Conjugated Polymers as Electron Transport Materials for Perovskite Solar Cells with Improved Efficiency and Stability. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5289-5297	9.5	23
223	Perylene Diimide Based Isomeric Conjugated Polymers as Efficient Electron Acceptors for All-polymer Solar Cells. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019 , 37, 18-27	3.5	8
222	Adjusting Aggregation Modes and Photophysical and Photovoltaic Properties of Diketopyrrolopyrrole-Based Small Molecules by Introducing B<-N Bonds. <i>Chemistry - A European Journal</i> , 2019 , 25, 564-572	4.8	10
221	Red emitting conjugated polymer based nanophotosensitizers for selectively targeted two-photon excitation imaging guided photodynamic therapy. <i>Nanoscale</i> , 2018 , 11, 185-192	7.7	18
220	N-Type Self-Doped Water/Alcohol-Soluble Conjugated Polymers with Tailored Energy Levels for High-Performance Polymer Solar Cells. <i>Macromolecules</i> , 2018 , 51, 2195-2202	5.5	28
219	8.0% Efficient all-polymer solar cells based on novel starburst polymer acceptors. <i>Science China Chemistry</i> , 2018 , 61, 576-583	7.9	23
218	Low temperature processed high-performance thick film ternary polymer solar cell with enhanced stability. <i>Nano Energy</i> , 2018 , 48, 53-62	17.1	36
217	Spontaneous Interfacial Dipole Orientation Effect of Acetic Acid Solubilized PFN. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10270-10279	9.5	15
216	Phosphonium conjugated polyelectrolytes as interface materials for efficient polymer solar cells. <i>Organic Electronics</i> , 2018 , 57, 151-157	3.5	12
215	Energy-effectively printed all-polymer solar cells exceeding 8.61% efficiency. <i>Nano Energy</i> , 2018 , 46, 428-435	17.1	42
214	Novel efficient blue and bluish-green light-emitting polymers with delayed fluorescence. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2690-2695	7.1	57
213	Side-chain modification of polyethylene glycol on conjugated polymers for ternary blend all-polymer solar cells with efficiency up to 9.27%. <i>Science China Chemistry</i> , 2018 , 61, 427-436	7.9	36
212	n-Type Conjugated Polymer Based on Dicyanodistyrylbenzene and Naphthalene Diimide Units for All-Polymer Solar Cells. <i>Chinese Journal of Chemistry</i> , 2018 , 36, 406-410	4.9	6
211	Highly Efficient Tandem Organic Solar Cell Enabled by Environmentally Friendly Solvent Processed Polymeric Interconnecting Layer. <i>Advanced Energy Materials</i> , 2018 , 8, 1703180	21.8	36
210	High-Performance Thick-Film All-Polymer Solar Cells Created Via Ternary Blending of a Novel Wide-Bandgap Electron-Donating Copolymer. <i>Advanced Energy Materials</i> , 2018 , 8, 1703085	21.8	97
209	Asymmetric Alkyl Side-Chain Engineering of Naphthalene Diimide-Based n-Type Polymers for Efficient All-Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700765	4.8	17
208	Printed Nonfullerene Organic Solar Cells with the Highest Efficiency of 9.5%. <i>Advanced Energy Materials</i> , 2018 , 8, 1701942	21.8	81
207	Cross-conjugated n-type polymer acceptors for efficient all-polymer solar cells. <i>Chemical Communications</i> , 2018 , 54, 2204-2207	5.8	13

206	Alkali Salt-Doped Highly Transparent and Thickness-Insensitive Electron-Transport Layer for High-Performance Polymer Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1939-1947	9.5	16
205	Photoconductive Cathode Interlayer for Enhanced Electron Injection in Inverted Polymer Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11377-11381	9.5	11
204	Nonfullerene Acceptor Molecules for Bulk Heterojunction Organic Solar Cells. <i>Chemical Reviews</i> , 2018 , 118, 3447-3507	68.1	1051
203	Improved performance of non-fullerene polymer solar cells using wide-bandgap random terpolymers. <i>Organic Electronics</i> , 2018 , 57, 317-322	3.5	10
202	Facile one-step fabrication of CdS _{0.12} Se _{0.88} quantum dots with a ZnSe/ZnS-passivation layer for highly efficient quantum dot sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9866-9873	13	30
201	Finely Tuned Composition in Conjugated Polyelectrolytes for Interfacial Engineering of Efficient Polymer Solar Cells. <i>Small Methods</i> , 2018 , 2, 1700407	12.8	17
200	Efficient device engineering for inverted non-fullerene organic solar cells with low energy loss. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4457-4463	7.1	30
199	Effects of partial replacement of carbon black with nanocrystalline cellulose on properties of natural rubber nanocomposites. <i>Journal of Polymer Engineering</i> , 2018 , 38, 137-146	1.4	7
198	Star-shaped electron acceptors containing a truxene core for non-fullerene solar cells. <i>Organic Electronics</i> , 2018 , 52, 42-50	3.5	45
197	Toward High Efficiency Polymer Solar Cells: Rearranging the Backbone Units into a Readily Accessible Random Tetrapolymer. <i>Advanced Energy Materials</i> , 2018 , 8, 1701668	21.8	18
196	Benzoselenadiazole-based donor-acceptor small molecule: Synthesis, aggregation-induced emission and electroluminescence. <i>Dyes and Pigments</i> , 2018 , 149, 399-406	4.6	14
195	Improved Efficiency of Polymer Solar Cells by Modifying the Side Chain of Wide-Band Gap Conjugated Polymers Containing Pyrrolo[3,4-f]benzotriazole-5,7(6 H)-dione Moiety. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22495-22503	9.5	19
194	Efficient Organic Solar Cells with Extremely High Open-Circuit Voltages and Low Voltage Losses by Suppressing Nonradiative Recombination Losses. <i>Advanced Energy Materials</i> , 2018 , 8, 1801699	21.8	97
193	Novel yellow phosphorescent iridium complexes with dibenzothiophene-S,S-dioxide-based cyclometalated ligand for white polymer light-emitting diodes. <i>Dyes and Pigments</i> , 2018 , 159, 637-645	4.6	11
192	11.2% All-Polymer Tandem Solar Cells with Simultaneously Improved Efficiency and Stability. <i>Advanced Materials</i> , 2018 , 30, e1803166	24	78
191	A low-bandgap dimeric porphyrin molecule for 10% efficiency solar cells with small photon energy loss. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18469-18478	13	29
190	Dibenzothiophene Dioxide Based Conjugated Microporous Polymers for Visible-Light-Driven Hydrogen Production. <i>ACS Catalysis</i> , 2018 , 8, 8590-8596	13.1	133
189	High-Performance Ternary Nonfullerene Polymer Solar Cells with Both Improved Photon Harvesting and Device Stability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25594-25603	9.5	30

188	High-Performance Green Solvent Processed Ternary Blended All-Polymer Solar Cells Enabled by Complementary Absorption and Improved Morphology. <i>Solar Rrl</i> , 2018 , 2, 1800196	7.1	21
187	Improved efficiency in fullerene and non-fullerene polymer solar cells having an interdigitated interface with the electron transport layer. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 1859-1865	7.8	6
186	Star-like n-type conjugated polymers based on naphthalenediimide for all-polymer solar cells. <i>Dyes and Pigments</i> , 2018 , 159, 85-91	4.6	11
185	A Rational Design and Synthesis of Cross-Conjugated Small Molecule Acceptors Approaching High-Performance Fullerene-Free Polymer Solar Cells. <i>Chemistry of Materials</i> , 2018 , 30, 4331-4342	9.6	16
184	Introducing cyclic alkyl chains into small-molecule acceptors for efficient polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7046-7053	7.1	20
183	One-step synthesis of cyclic compounds towards easy room-temperature phosphorescence and deep blue thermally activated delayed fluorescence. <i>Chemical Communications</i> , 2018 , 54, 7850-7853	5.8	25
182	A high dielectric constant non-fullerene acceptor for efficient bulk-heterojunction organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 395-403	13	173
181	Efficient Large Area Organic Solar Cells Processed by Blade-Coating With Single-Component Green Solvent. <i>Solar Rrl</i> , 2018 , 2, 1700169	7.1	68
180	A Shockley-Type Polymer: Fullerene Solar Cell. <i>Advanced Energy Materials</i> , 2018 , 8, 1701450	21.8	29
179	Overcoming the morphological and efficiency limit in all-polymer solar cells by designing conjugated random copolymers containing a naphtho[1,2-c:5,6-c']bis([1,2,5]thiadiazole)] moiety. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23295-23300	13	9
178	Polymer-Assisted In Situ Growth of All-Inorganic Perovskite Nanocrystal Film for Efficient and Stable Pure-Red Light-Emitting Devices. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42564-42572	9.5	62
177	Conjugated Polymers Based on Thiazole Flanked Naphthalene Diimide for Unipolar n-Type Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2018 , 30, 8343-8351	9.6	24
176	Electron Acceptors With a Truxene Core and Perylene Diimide Branches for Organic Solar Cells: The Effect of Ring-Fusion. <i>Frontiers in Chemistry</i> , 2018 , 6, 328	5	12
175	Efficient and Air-Stable Aqueous-Processed Organic Solar Cells and Transistors: Impact of Water Addition on Processability and Thin-Film Morphologies of Electroactive Materials. <i>Advanced Energy Materials</i> , 2018 , 8, 1802674	21.8	34
174	Naphthalenediimide-based n-type polymer acceptors with pendant twisted perylenediimide units for all-polymer solar cells. <i>Polymer</i> , 2018 , 158, 183-189	3.9	5
173	Fine-tuning of the chemical structure of photoactive materials for highly efficient organic photovoltaics. <i>Nature Energy</i> , 2018 , 3, 1051-1058	62.3	235
172	Non-fullerene acceptors end-capped with an extended conjugation group for efficient polymer solar cells. <i>Organic Electronics</i> , 2018 , 59, 366-373	3.5	7
171	Engineering the morphology via processing additives in multiple all-polymer solar cells for improved performance. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10421-10432	13	54

170	Morphology Optimization via Side Chain Engineering Enables All-Polymer Solar Cells with Excellent Fill Factor and Stability. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8934-8943	16.4	171
169	Designing ternary blend all-polymer solar cells with an efficiency of over 10% and a fill factor of 78%. <i>Nano Energy</i> , 2018 , 51, 434-441	17.1	50
168	On the understanding of energetic disorder, charge recombination and voltage losses in all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7855-7863	7.1	23
167	Heat-Insulating Multifunctional Semitransparent Polymer Solar Cells. <i>Joule</i> , 2018 , 2, 1816-1826	27.8	105
166	Cyanovinylene-based copolymers synthesized by tin-free Knoevenagel polycondensation for high efficiency polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8020-8027	7.1	7
165	Synthesis of regioregular π -conjugated polymers consisting of a lactam moiety via direct heteroarylation polymerization. <i>Chemical Communications</i> , 2017 , 53, 1997-2000	5.8	13
164	High-Performance Organic Field-Effect Transistors Fabricated Based on a Novel Ternary π -Conjugated Copolymer. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7315-7321	9.5	18
163	High-Performance Ternary Organic Solar Cell Enabled by a Thick Active Layer Containing a Liquid Crystalline Small Molecule Donor. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2387-2395	16.4	351
162	Electrostatically self-assembled chitosan derivatives working as efficient cathode interlayers for organic solar cells. <i>Nano Energy</i> , 2017 , 34, 164-171	17.1	28
161	Walnut-like Porous Core/Shell TiO with Hybridized Phases Enabling Fast and Stable Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10652-10663	9.5	145
160	Enhanced performance of field-effect transistors based on C60 single crystals with conjugated polyelectrolyte. <i>Science China Chemistry</i> , 2017 , 60, 490-496	7.9	6
159	Novel cross-linked films from epoxy-functionalized conjugated polymer and amine based small molecule for the interface engineering of high-efficiency inverted polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 168, 22-29	6.4	9
158	Amino-functionalized conjugated polymer electron transport layers enhance the UV-photostability of planar heterojunction perovskite solar cells. <i>Chemical Science</i> , 2017 , 8, 4587-4594	9.4	39
157	An Open-Circuit Voltage and Power Conversion Efficiency Study of Fullerene Ternary Organic Solar Cells Based on Oligomer/Oligomer and Oligomer/Polymer. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700090	4.8	4
156	Self-Doped, n-Type Perylene Diimide Derivatives as Electron Transporting Layers for High-Efficiency Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700232	21.8	61
155	Self-Assembled Conjugated Polymer/Chitosan-graft-Oleic Acid Micelles for Fast Visible Detection of Aliphatic Biogenic Amines by "Turn-On" FRET. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22875-22884 ³⁷	9.5	37
154	Cross-Linkable and Dual Functional Hybrid Polymeric Electron Transporting Layer for High-Performance Inverted Polymer Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1701507	24	32
153	Self-Doped N-Type Water/Alcohol Soluble-Conjugated Polymers with Tailored Backbones and Polar Groups for Highly Efficient Polymer Solar Cells. <i>Solar Rrl</i> , 2017 , 1, 1700055	7.1	39

152	Fluorescent Supramolecular Polymers Based on Pillar[5]arene for OLED Device Fabrication. <i>ACS Macro Letters</i> , 2017 , 6, 647-651	6.6	36
151	Interface design for high-efficiency non-fullerene polymer solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 1784-1791	35.4	149
150	High-Performance Nonfullerene Polymer Solar Cells based on Imide-Functionalized Wide-Bandgap Polymers. <i>Advanced Materials</i> , 2017 , 29, 1606396	24	135
149	Perovskite hybrid solar cells with a fullerene derivative electron extraction layer. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4190-4197	7.1	20
148	Regioregular narrow-bandgap-conjugated polymers for plastic electronics. <i>Nature Communications</i> , 2017 , 8, 14047	17.4	157
147	Optimisation of processing solvent and molecular weight for the production of green-solvent-processed all-polymer solar cells with a power conversion efficiency over 9%. <i>Energy and Environmental Science</i> , 2017 , 10, 1243-1251	35.4	307
146	Towards a bright future: polymer solar cells with power conversion efficiencies over 10%. <i>Science China Chemistry</i> , 2017 , 60, 571-582	7.9	104
145	Novel perylene diimide based polymeric electron-acceptors containing ethynyl as the bridge for all-polymer solar cells. <i>Organic Electronics</i> , 2017 , 45, 227-233	3.5	24
144	Dual Interfacial Modifications Enable High Performance Semitransparent Perovskite Solar Cells with Large Open Circuit Voltage and Fill Factor. <i>Advanced Energy Materials</i> , 2017 , 7, 1602333	21.8	161
143	Quaternisation-polymerized N-type polyelectrolytes: synthesis, characterisation and application in high-performance polymer solar cells. <i>Materials Horizons</i> , 2017 , 4, 88-97	14.4	78
142	Non-planar perylenediimide acceptors with different geometrical linker units for efficient non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1713-1723	13	47
141	Microwave-assisted one-pot three-component polymerization of alkynes, aldehydes and amines toward amino-functionalized optoelectronic polymers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017 , 35, 269-281	3.5	13
140	Improved Performance of Ternary Polymer Solar Cells Based on A Nonfullerene Electron Cascade Acceptor. <i>Advanced Energy Materials</i> , 2017 , 7, 1602127	21.8	90
139	Non-fullerene acceptors based on fused-ring oligomers for efficient polymer solar cells via complementary light-absorption. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23926-23936	13	57
138	Efficient All-Polymer Solar Cells Based on Conjugated Polymer Containing an Alkoxyated Imide-Functionalized Benzotriazole Unit. <i>Macromolecules</i> , 2017 , 50, 8149-8157	5.5	27
137	Regioisomeric Non-Fullerene Acceptors Containing Fluorobenzo[c][1,2,5]thiadiazole Unit for Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37087-37093	9.5	29
136	Naphthalene Diimide Based n-Type Conjugated Polymers as Efficient Cathode Interfacial Materials for Polymer and Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36070-36081	9.5	33
135	Counterion-tunable n-type conjugated polyelectrolytes for the interface engineering of efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19447-19455	13	28

134	Thick Film Polymer Solar Cells Based on Naphtho[1,2-c:5,6-c]bis[1,2,5]thiadiazole Conjugated Polymers with Efficiency over 11%. <i>Advanced Energy Materials</i> , 2017 , 7, 1700944	21.8	115
133	The effect of end-capping groups in A-D-A type non-fullerene acceptors on device performance of organic solar cells. <i>Science China Chemistry</i> , 2017 , 60, 1458-1467	7.9	29
132	Conjugated Polymers Based on Difluorobenzoxadiazole toward Practical Application of Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1702033	21.8	30
131	Enhanced Photovoltaic Performance of Ternary Polymer Solar Cells by Incorporation of a Narrow-Bandgap Nonfullerene Acceptor. <i>Chemistry of Materials</i> , 2017 , 29, 8177-8186	9.6	58
130	Synergic Interface and Optical Engineering for High-Performance Semitransparent Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1701121	21.8	43
129	Self-doped n-type small molecular electron transport materials for high-performance organic solar cells. <i>Science China Chemistry</i> , 2017 , 60, 1136-1144	7.9	29
128	Ternary Solar Cells Based on Two Small Molecule Donors with Same Conjugated Backbone: The Role of Good Miscibility and Hole Relay Process. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29917-29923	9.5	38
127	Non-fullerene polymer solar cells with VOC > 1 V based on fluorinated quinoxaline unit conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8774-8781	7.1	25
126	Layer-by-Layer Assembly of Multilayer Thin Films for Organic Optoelectronic Devices. <i>Small Methods</i> , 2017 , 1, 1700264	12.8	29
125	All-Polymer Solar Cells Based on a Conjugated Polymer Containing Siloxane-Functionalized Side Chains with Efficiency over 10. <i>Advanced Materials</i> , 2017 , 29, 1703906	24	294
124	Novel donor-acceptor type conjugated polymers based on quinoxalino[6,5-f]quinoxaline for photovoltaic applications. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 499-506	7.8	24
123	Toward Solution-Processed High-Performance Polymer Solar Cells: from Material Design to Device Engineering. <i>Chemistry of Materials</i> , 2017 , 29, 141-148	9.6	115
122	Diethynylbenzo[1,2-b:4,5-b']dithiophene-based small molecule and cross-conjugated copolymers for organic solar cells. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 660-671	2.5	3
121	Sky-blue phosphorescent organic light-emitting diodes with dibenzo-24-crown-8 substituted iridium(III) complexes as the dopants. <i>Dyes and Pigments</i> , 2017 , 138, 77-82	4.6	8
120	Toward High Efficiency Polymer Solar Cells: Influence of Local Chemical Environment and Morphology. <i>Advanced Energy Materials</i> , 2017 , 7, 1601081	21.8	40
119	Naphthalene Diimide-Based Polymers Consisting of Amino Alkyl Side Groups: Three-Component One-Pot Polymerization and Their Application in Polymer Solar Cells. <i>Acta Chimica Sinica</i> , 2017 , 75, 808	3.3	13
118	A Novel Naphtho[1,2-c:5,6-c]bis([1,2,5]Thiadiazole)-Based Narrow-Bandgap Conjugated Polymer with Power Conversion Efficiency Over 10. <i>Advanced Materials</i> , 2016 , 28, 9811-9818	24	207
117	Improved Morphology and Efficiency of Polymer Solar Cells by Processing Donor-Acceptor Copolymer Additives. <i>Advanced Functional Materials</i> , 2016 , 26, 6479-6488	15.6	27

116	Design, synthesis and photovoltaic properties of a series of new acceptor-pended conjugated polymers. <i>Science China Chemistry</i> , 2016 , 59, 1583-1592	7.9	10
115	New insight of molecular interaction, crystallization and phase separation in higher performance small molecular solar cells via solvent vapor annealing. <i>Nano Energy</i> , 2016 , 30, 639-648	17.1	58
114	Recent advances in high performance solution processed WOLEDs for solid-state lighting. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10993-11006	7.1	72
113	A Difluorobenzoxadiazole Building Block for Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 1868-73	24	118
112	Novel iridium complexes as yellow phosphorescent emitters for single-layer yellow and white polymer light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6626-6633	7.1	11
111	The incorporation of thermionic emission and work function tuning layer into intermediate connecting layer for high performance tandem organic solar cells. <i>Nano Energy</i> , 2016 , 21, 123-132	17.1	21
110	n-Type Water/Alcohol-Soluble Naphthalene Diimide-Based Conjugated Polymers for High-Performance Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2004-13	16.4	400
109	Energy-Level Alignment at the Organic/Electrode Interface in Organic Optoelectronic Devices. <i>Advanced Functional Materials</i> , 2016 , 26, 129-136	15.6	53
108	Effects of pyridyl group orientations on the optoelectronic properties of regio-isomeric diketopyrrolopyrrole based π -conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2470-2479	7.1	10
107	Acenaphtho[1,2- b]quinoxaline diimides derivative as a potential small molecule non-fullerene acceptor for organic solar cells. <i>Organic Electronics</i> , 2016 , 30, 176-181	3.5	26
106	Polymer Solar Cells: Crosslinkable Amino-Functionalized Conjugated Polymer as Cathode Interlayer for Efficient Inverted Polymer Solar Cells (Adv. Energy Mater. 11/2016). <i>Advanced Energy Materials</i> , 2016 , 6,	21.8	8
105	Synthesis of medium-bandgap π -conjugated polymers based on isomers of 5-Alkylphenanthridin-6(5H)-one and 6-Alkoxyphenanthridine. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 2119-2127	2.5	10
104	High-Performance Polymer Tandem Solar Cells Employing a New n-Type Conjugated Polymer as an Interconnecting Layer. <i>Advanced Materials</i> , 2016 , 28, 4817-23	24	137
103	Amino-Functionalized Conjugated Polymer as an Efficient Electron Transport Layer for High-Performance Planar-Heterojunction Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1501534	21.8	247
102	Crosslinkable Amino-Functionalized Conjugated Polymer as Cathode Interlayer for Efficient Inverted Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1502563	21.8	51
101	Multi-Length-Scale Morphologies Driven by Mixed Additives in Porphyrin-Based Organic Photovoltaics. <i>Advanced Materials</i> , 2016 , 28, 4727-33	24	219
100	Improving Film Formation and Photovoltage of Highly Efficient Inverted-Type Perovskite Solar Cells through the Incorporation of New Polymeric Hole Selective Layers. <i>Advanced Energy Materials</i> , 2016 , 6, 1502021	21.8	141
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