

Jianhui Hou

List of Publications by Year in Descending Order

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Version: 2024-04-23

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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.

426
papers

56,373
citations

119
h-index

229
g-index

452
ext. papers

63,926
ext. citations

13.9
avg, IF

8.27
L-index

#	Paper	IF	Citations
426	Tandem Organic Solar Cell with 20.2% Efficiency. <i>Joule</i> , 2022 , 6, 171-184	27.8	90
425	Facile solution-processed molybdenum oxide as hole transporting material for efficient organic solar cell. <i>Journal of Energy Chemistry</i> , 2022 , 69, 108-114	12	0
424	Delicate crystallinity control enables high-efficiency P3HT organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2022 ,	13	12
423	Influence of Large Steric Hinderance Substituent Position on Conformation and Charge Transfer Process for Non-Fused Ring Acceptors.. <i>Small Methods</i> , 2022 , e2200007	12.8	1
422	High-Efficiency ITO-Free Organic Photovoltaics with Superior Flexibility and Up-Scalability.. <i>Advanced Materials</i> , 2022 , e2200044	24	6
421	Terminal alkyl chain tuning of small molecule donor enables optimized morphology and efficient all-small-molecule organic solar cells. <i>Dyes and Pigments</i> , 2022 , 200, 110147	4.6	1
420	Terthiophene based non-fused electron acceptors for efficient organic solar cells. <i>Organic Electronics</i> , 2022 , 105, 106512	3.5	3
419	Recent progress in organic solar cells (Part I material science). <i>Science China Chemistry</i> , 2022 , 65, 224-268	7.9	48
418	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
417	Design of Near-Infrared Nonfullerene Acceptor with Ultralow Nonradiative Voltage Loss for High-Performance Semitransparent Ternary Organic Solar Cells.. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	13
416	Fluidic Manipulating of Printable Zinc Oxide for Flexible Organic Solar Cells. <i>Advanced Materials</i> , 2021 , e2106453	24	6
415	Optimized Charge Transport Channel Enables Thick-Film All-Small-Molecule Organic Solar Cells. <i>Energy & Fuels</i> , 2021 , 35, 19756-19764	4.1	
414	Heavy-Atom-Free Room-Temperature Phosphorescent Rylene Imide for High-Performing Organic Photovoltaics. <i>Advanced Science</i> , 2021 , e2103975	13.6	3
413	High-Performance Non-Fused Wide Bandgap Acceptor for Versatile Photovoltaic Applications. <i>Advanced Materials</i> , 2021 , e2108090	24	13
412	A Universal Nonhalogenated Polymer Donor for High-Performance Organic Photovoltaic Cells. <i>Advanced Materials</i> , 2021 , e2105803	24	17
411	Advances and prospective in thermally stable nonfullerene polymer solar cells. <i>Science China Chemistry</i> , 2021 , 64, 1875	7.9	12
410	Multi-Functional Solid Additive Induced Favorable Vertical Phase Separation and Ordered Molecular Packing for Highly Efficient Layer-by-Layer Organic Solar Cells. <i>Small</i> , 2021 , 17, e2103497	11	14

409	Thermoplastic Elastomer Tunes Phase Structure and Promotes Stretchability of High-Efficiency Organic Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2106732	24	32
408	n-doped inorganic molecular clusters as a new type of hole transport material for efficient organic solar cells. <i>Joule</i> , 2021 , 5, 646-658	27.8	24
407	Effect of alkyl side chains of twisted conjugated polymer donors on photovoltaic performance. <i>Polymer</i> , 2021 , 218, 123475	3.9	3
406	Hybrid Perovskite Quantum Dot/Non-Fullerene Molecule Solar Cells with Efficiency Over 15%. <i>Advanced Functional Materials</i> , 2021 , 31, 2101272	15.6	23
405	A New Conjugated Polymer that Enables the Integration of Photovoltaic and Light-Emitting Functions in One Device. <i>Advanced Materials</i> , 2021 , 33, e2101090	24	58
404	Suppressing Energetic Disorder Enables Efficient Indoor Organic Photovoltaic Cells With a PTV Derivative. <i>Frontiers in Chemistry</i> , 2021 , 9, 684241	5	4
403	Elucidating End-Group Modifications of Carbazole-Based Nonfullerene Acceptors in Indoor Applications for Achieving a PCE of over 20. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26247-26285	9.5	3
402	Simultaneous Improvement of Efficiency and Stability of Organic Photovoltaic Cells by using a Cross-Linkable Fullerene Derivative. <i>Small</i> , 2021 , 17, e2101133	11	10
401	Accurate photovoltaic measurement of organic cells for indoor applications. <i>Joule</i> , 2021 , 5, 1016-1023	27.8	16
400	Rational Anode Engineering Enables Progresses for Different Types of Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2100492	21.8	48
399	Control of aggregated structure of photovoltaic polymers for high-efficiency solar cells. <i>Aggregate</i> , 2021 , e46	22.9	18
398	Modulation of terminal alkyl chain length enables over 15% efficiency in small-molecule organic solar cells. <i>Science China Chemistry</i> , 2021 , 64, 1200-1207	7.9	7
397	Probing molecular orientation at bulk heterojunctions by polarization-selective transient absorption spectroscopy. <i>Science China Chemistry</i> , 2021 , 64, 1569-1576	7.9	0
396	A unified description of non-radiative voltage losses in organic solar cells. <i>Nature Energy</i> , 2021 , 6, 799-806	6.3	70
395	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donor-Acceptor Photovoltaic Blends. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15988-15994	16.4	17
394	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donor-Acceptor Photovoltaic Blends. <i>Angewandte Chemie</i> , 2021 , 133, 16124-16130	3.6	3
393	Achieving over 10 % Efficiency in Poly(3-hexylthiophene)-Based Organic Solar Cells via Solid Additives. <i>ChemSusChem</i> , 2021 , 14, 3607-3613	8.3	20
392	Miscibility Control by Tuning Electrostatic Interactions in Bulk Heterojunction for Efficient Organic Solar Cells 2021 , 3, 1276-1283		8

391	Organic photovoltaic cells with high efficiencies for both indoor and outdoor applications. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 893-900	7.8	13
390	Recent progress in reducing voltage loss in organic photovoltaic cells. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 709-722	7.8	20
389	Optimizing polymer aggregation and blend morphology for boosting the photovoltaic performance of polymer solar cells via a random terpolymerization strategy. <i>Journal of Energy Chemistry</i> , 2021 , 59, 30-37	12	10
388	Design of ultra-high luminescent polymers for organic photovoltaic cells with low energy loss. <i>Chemical Communications</i> , 2021 , 57, 9132-9135	5.8	4
387	Quadrupole Moment Induced Morphology Control Via a Highly Volatile Small Molecule in Efficient Organic Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2010535	15.6	26
386	Molecular design revitalizes the low-cost PTV-polymer for highly efficient organic solar cells.. <i>National Science Review</i> , 2021 , 8, nwab031	10.8	35
385	Suppressing trap states and energy loss by optimizing vertical phase distribution through ternary strategy in organic solar cells. <i>Science China Chemistry</i> , 2021 , 64, 599-607	7.9	11
384	Stable and low-photovoltage-loss perovskite solar cells by multifunctional passivation. <i>Nature Photonics</i> , 2021 , 15, 681-689	33.9	72
383	Fluorination strategy enables greatly improved performance for organic solar cells based on polythiophene derivatives. <i>Chinese Chemical Letters</i> , 2021 , 32, 2274-2278	8.1	11
382	Solution-Processed Silver Nanowire as Flexible Transparent Electrodes in Organic Solar Cells. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 2315-2329	4.9	6
381	A Thiadiazole-Based Conjugated Polymer with Ultradeep HOMO Level and Strong Electroluminescence Enables 18.6% Efficiency in Organic Solar Cell. <i>Advanced Energy Materials</i> , 2021 , 11, 2101705	21.8	51
380	Non-Fullerene Molecules: Hybrid Perovskite Quantum Dot/Non-Fullerene Molecule Solar Cells with Efficiency Over 15% (Adv. Funct. Mater. 27/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170196	15.6	1
379	Completely non-fused electron acceptor with 3D-interpenetrated crystalline structure enables efficient and stable organic solar cell. <i>Nature Communications</i> , 2021 , 12, 5093	17.4	48
378	Progress in Organic Solar Cells: Materials, Physics and Device Engineering. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 2607-2625	4.9	8
377	A Tandem Organic Photovoltaic Cell with 19.6% Efficiency Enabled by Light Distribution Control. <i>Advanced Materials</i> , 2021 , 33, e2102787	24	75
376	Single-Junction Organic Photovoltaic Cell with 19% Efficiency. <i>Advanced Materials</i> , 2021 , 33, e2102420	24	302
375	The performance-stability conundrum of BTP-based organic solar cells. <i>Joule</i> , 2021 , 5, 2129-2147	27.8	24
374	Reduced non-radiative charge recombination enables organic photovoltaic cell approaching 19% efficiency. <i>Joule</i> , 2021 , 5, 2408-2419	27.8	144

373	18.5% Efficiency Organic Solar Cells with a Hybrid Planar/Bulk Heterojunction. <i>Advanced Materials</i> , 2021 , 33, e2103091	24	37
372	Squaraine organic crystals with strong dipole effect toward stable lithium-organic batteries. <i>Energy Storage Materials</i> , 2021 , 41, 240-247	19.4	5
371	Optimization of active layer morphology by small-molecule donor design enables over 15% efficiency in small-molecule organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13653-13660	13	9
370	Reduced Nonradiative Recombination Energy Loss Enabled Efficient Polymer Solar Cells via Tuning Alkyl Chain Positions on Pendent Benzene Units of Polymers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24184-24191	9.5	6
369	A Novel Wide-Bandgap Polymer with Deep Ionization Potential Enables Exceeding 16% Efficiency in Ternary Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 1910466	15.6	36
368	Printable SnO ₂ cathode interlayer with up to 500 nm thickness-tolerance for high-performance and large-area organic solar cells. <i>Science China Chemistry</i> , 2020 , 63, 957-965	7.9	25
367	Efficient charge generation at low energy losses in organic solar cells: a key issues review. <i>Reports on Progress in Physics</i> , 2020 , 83, 082601	14.4	26
366	Organic photovoltaic cells for low light applications offering new scope and orientation. <i>Organic Electronics</i> , 2020 , 85, 105798	3.5	17
365	Impact of the Hole Transport Layer on the Charge Extraction of Ruddlesden-Popper Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 29505-29512	9.5	1
364	Efficient Exciton Dissociation Enabled by the End Group Modification in Non-Fullerene Acceptors. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7691-7698	3.8	11
363	Tuning the Hybridization of Local Exciton and Charge-Transfer States in Highly Efficient Organic Photovoltaic Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9004-9010	16.4	74
362	15.3% efficiency all-small-molecule organic solar cells enabled by symmetric phenyl substitution. <i>Science China Materials</i> , 2020 , 63, 1142-1150	7.1	99
361	Recent progress in wide bandgap conjugated polymer donors for high-performance nonfullerene organic photovoltaics. <i>Chemical Communications</i> , 2020 , 56, 4750-4760	5.8	61
360	Carbonyl Bridge-Based p-Conjugated Polymers as High-Performance Electrodes of Organic Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18457-18464	9.5	14
359	Recent Progress in Chlorinated Organic Photovoltaic Materials. <i>Accounts of Chemical Research</i> , 2020 , 53, 822-832	24.3	106
358	Single-Junction Organic Photovoltaic Cells with Approaching 18% Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1908205	24	896
357	Tuning the Hybridization of Local Exciton and Charge-Transfer States in Highly Efficient Organic Photovoltaic Cells. <i>Angewandte Chemie</i> , 2020 , 132, 9089-9095	3.6	17
356	Efficient and photostable ternary organic solar cells with a narrow band gap non-fullerene acceptor and fullerene additive. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6682-6691	13	23

355	Exceptionally low charge trapping enables highly efficient organic bulk heterojunction solar cells. <i>Energy and Environmental Science</i> , 2020 , 13, 2422-2430	35.4	86
354	Toward Visibly Transparent Organic Photovoltaic Cells Based on a Near-Infrared Harvesting Bulk Heterojunction Blend. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 32764-32770	9.5	21
353	Enhanced photovoltaic effect from naphtho[2,3-c]thiophene-4,9-dione-based polymers through alkyl side chain induced backbone distortion. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14706-14712	13	7
352	Effects on the photovoltaic properties of copolymers with five-membered chalcogen-heterocycle bridges. <i>Polymer Chemistry</i> , 2020 , 11, 5019-5028	4.9	10
351	Influence of Covalent and Noncovalent Backbone Rigidification Strategies on the Aggregation Structures of a Wide-Band-Gap Polymer for Photovoltaic Cells. <i>Chemistry of Materials</i> , 2020 , 32, 1993-2003	8.6	21
350	Realizing Ultrahigh Mechanical Flexibility and >15% Efficiency of Flexible Organic Solar Cells via a "Welding" Flexible Transparent Electrode. <i>Advanced Materials</i> , 2020 , 32, e1908478	24	133
349	An inorganic molecule-induced electron transfer complex for highly efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5580-5586	13	13
348	Terrylene diimide-based middle-low bandgap electron acceptors for organic photovoltaics. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4441-4446	7.1	6
347	Over 17% efficiency ternary organic solar cells enabled by two non-fullerene acceptors working in an alloy-like model. <i>Energy and Environmental Science</i> , 2020 , 13, 635-645	35.4	462
346	High-Efficiency Nonfullerene Organic Solar Cells Enabled by 1000 nm Thick Active Layers with a Low Trap-State Density. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18777-18784	9.5	50
345	Research Progress of Tandem Organic Solar Cells. <i>Acta Chimica Sinica</i> , 2020 , 78, 382	3.3	9
344	Tuning the Energetic Landscape of Ruddlesden-Popper Perovskite Films for Efficient Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 39-46	20.1	30
343	The effect of aggregation behavior on photovoltaic performances in benzodithiophene-thiazolothiazole-based wide band-gap conjugated polymers with side chain position changes. <i>Polymer Chemistry</i> , 2020 , 11, 1629-1636	4.9	22
342	Increased conjugated backbone twisting to improve carbonylated-functionalized polymer photovoltaic performance. <i>Organic Chemistry Frontiers</i> , 2020 , 7, 261-266	5.2	8
341	A chlorinated nonacyclic carbazole-based acceptor affords over 15% efficiency in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1131-1137	13	48
340	Study of photovoltaic performances for asymmetrical and symmetrical chlorinated thiophene-bridge-based conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2301-2306	7.1	9
339	TCNQ as a volatilizable morphology modulator enables enhanced performance in non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 44-49	7.1	11
338	Tailoring and Modifying an Organic Electron Acceptor toward the Cathode Interlayer for Highly Efficient Organic Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e1906557	24	63

337	PBDB-T and its derivatives: A family of polymer donors enables over 17% efficiency in organic photovoltaics. <i>Materials Today</i> , 2020 , 35, 115-130	21.8	141
336	Organic photovoltaic cell with 17% efficiency and superior processability. <i>National Science Review</i> , 2020 , 7, 1239-1246	10.8	318
335	Reducing Voltage Losses in the A-DA?D-A Acceptor-Based Organic Solar Cells. <i>Chem</i> , 2020 , 6, 2147-2161	16.2	73
334	Recent advances in non-fullerene organic solar cells: from lab to fab. <i>Chemical Communications</i> , 2020 , 56, 14337-14352	5.8	40
333	Molecular design of a non-fullerene acceptor enables a P3HT-based organic solar cell with 9.46% efficiency. <i>Energy and Environmental Science</i> , 2020 , 13, 2864-2869	35.4	93
332	Recent advances in high-efficiency organic solar cells fabricated by eco-compatible solvents at relatively large-area scale. <i>APL Materials</i> , 2020 , 8, 120901	5.7	20
331	Inorganic Molecular Clusters with Facile Preparation and Neutral pH for Efficient Hole Extraction in Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39462-39470	9.5	9
330	Organic Photovoltaic Cells for Indoor Applications: Opportunities and Challenges. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38815-38828	9.5	58
329	Quantifying Voc loss induced by alkyl pendants of acceptors in organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12568-12577	7.1	7
328	Chlorinated Carbon-Bridged and Silicon-Bridged Carbazole-Based Nonfullerene Acceptors Manifest Synergistic Enhancement in Ternary Organic Solar Cell with Efficiency over 15%. <i>Solar Rrl</i> , 2020 , 4, 2000357	7.1	13
327	PTV-based p-type organic semiconductors: Candidates for low-cost photovoltaic donors with simple synthetic routes. <i>Polymer</i> , 2020 , 209, 122900	3.9	11
326	Robust metal ion-chelated polymer interfacial layer for ultraflexible non-fullerene organic solar cells. <i>Nature Communications</i> , 2020 , 11, 4508	17.4	73
325	Low Temperature Aggregation Transitions in N3 and Y6 Acceptors Enable Double-Annealing Method That Yields Hierarchical Morphology and Superior Efficiency in Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2005011	15.6	41
324	Significant influence of doping effect on photovoltaic performance of efficient fullerene-free polymer solar cells. <i>Journal of Energy Chemistry</i> , 2020 , 43, 40-46	12	24
323	A ternary organic solar cell with 300 nm thick active layer shows over 14% efficiency. <i>Science China Chemistry</i> , 2020 , 63, 21-27	7.9	52
322	1 cm Organic Photovoltaic Cells for Indoor Application with over 20% Efficiency. <i>Advanced Materials</i> , 2019 , 31, e1904512	24	87
321	Enhanced intermolecular interactions to improve twisted polymer photovoltaic performance. <i>Science China Chemistry</i> , 2019 , 62, 370-377	7.9	24
320	12.88% efficiency in doctor-blade coated organic solar cells through optimizing the surface morphology of a ZnO cathode buffer layer. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 212-220	13	53

319	Exquisite modulation of ZnO nanoparticle electron transporting layer for high-performance fullerene-free organic solar cell with inverted structure. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3570-3576	13	38
318	Highly Efficient Fullerene-Free Organic Solar Cells Operate at Near Zero Highest Occupied Molecular Orbital Offsets. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3073-3082	16.4	251
317	Enhanced JSC of P3HT-based non-fullerene polymer solar cells by modulating aggregation effect of P3HT in solution state. <i>Organic Electronics</i> , 2019 , 68, 15-21	3.5	12
316	Vacuum-assisted annealing method for high efficiency printable large-area polymer solar cell modules. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 3206-3211	7.1	18
315	Multifunctional bipyramid-Au@ZnO core-shell nanoparticles as a cathode buffer layer for efficient non-fullerene inverted polymer solar cells with improved near-infrared photoresponse. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2667-2676	13	18
314	Control of Donor-Acceptor Photophysics through Structural Modification of a Twisting Push-Pull Molecule. <i>Chemistry of Materials</i> , 2019 , 31, 6860-6869	9.6	11
313	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
312	Carboxylate-Substituted Polythiophenes for Efficient Fullerene-Free Polymer Solar Cells: The Effect of Chlorination on Their Properties. <i>Macromolecules</i> , 2019 , 52, 4464-4474	5.5	50
311	Interfacial engineering and optical coupling for multicolored semitransparent inverted organic photovoltaics with a record efficiency of over 12%. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15887-15894	12	60
310	Design of wide-bandgap polymers with deeper ionization potential enables efficient ternary non-fullerene polymer solar cells with 13% efficiency. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14153-14162	13	21
309	p-Doped Conducting Polyelectrolyte as an Anode Interlayer Enables High Efficiency for 1 cm Printed Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20205-20213	9.5	15
308	Increasing Quantum Efficiency of Polymer Solar Cells with Efficient Exciton Splitting and Long Carrier Lifetime by Molecular Doping at Heterojunctions. <i>ACS Energy Letters</i> , 2019 , 4, 1356-1363	20.1	29
307	Tuning Charge Generation Process of Rylene Imide-Based Solar Cells via Chalcogen-Atom-Annulation. <i>Chemistry of Materials</i> , 2019 , 31, 3636-3643	9.6	17
306	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
305	Enhanced π -Interactions of Nonfullerene Acceptors by Volatilizable Solid Additives in Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1900477	24	69
304	Energy level modulation of ITIC derivatives: Effects on the photodegradation of conventional and inverted organic solar cells. <i>Organic Electronics</i> , 2019 , 69, 255-262	3.5	23
303	Highly fluorescent anthracene derivative as a non-fullerene acceptor in OSCs with small non-radiative energy loss of 0.22 eV and high PCEs of over 13%. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10212-10216	13	21
302	Regulating Bulk-Heterojunction Molecular Orientations through Surface Free Energy Control of Hole-Transporting Layers for High-Performance Organic Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1806921	24	53

301	Significant Effect of Fluorination on Simultaneously Improving Work Function and Transparency of Anode Interlayer for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1803826	21.8	14
300	Eco-Compatible Solvent-Processed Organic Photovoltaic Cells with Over 16% Efficiency. <i>Advanced Materials</i> , 2019 , 31, e1903441	24	318
299	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
298	Observing electron transport and percolation in selected bulk heterojunctions bearing fullerene derivatives, non-fullerene small molecules, and polymeric acceptors. <i>Nano Energy</i> , 2019 , 64, 103950	17.1	25
297	Single-Junction Organic Solar Cell Containing a Fluorinated Heptacyclic Carbazole-Based Ladder-Type Acceptor Affords over 13% Efficiency with Solution-Processed Cross-Linkable Fullerene as an Interfacial Layer. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31069-31077	9.5	23
296	Reduced Nonradiative Energy Loss Caused by Aggregation of Nonfullerene Acceptor in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1901823	21.8	53
295	Effects of energy-level offset between a donor and acceptor on the photovoltaic performance of non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18889-18897	13	57
294	Improved Charge Transport and Reduced Nonradiative Energy Loss Enable Over 16% Efficiency in Ternary Polymer Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1902302	24	311
293	Investigating the Trade-Off between Device Performance and Energy Loss in Nonfullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29124-29131	9.5	19
292	Modulation of Building Block Size in Conjugated Polymers with D _A Structure for Polymer Solar Cells. <i>Macromolecules</i> , 2019 , 52, 7929-7938	5.5	6
291	Efficiency above 12% for 1 cm Flexible Organic Solar Cells with Ag/Cu Grid Transparent Conducting Electrode. <i>Advanced Science</i> , 2019 , 6, 1901490	13.6	34
290	Efficient Organic Solar Cells with a High Open-Circuit Voltage of 1.34 V. <i>Chinese Journal of Chemistry</i> , 2019 , 37, 1153-1157	4.9	15
289	Development of Benzodithiophene-Based A-D-A Small Molecules with Different Acceptor End Groups for Efficient Organic Solar Cells. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2019 , 35, 76-83	3.8	6
288	Achieving Over 15% Efficiency in Organic Photovoltaic Cells via Copolymer Design. <i>Advanced Materials</i> , 2019 , 31, e1808356	24	314
287	Asymmetric Wide-Bandgap Polymers Simultaneously Improve the Open-Circuit Voltage and Short-Circuit Current for Organic Photovoltaics. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800906	4.8	20
286	Boosting the Performance of Non-Fullerene Organic Solar Cells via Cross-Linked Donor Polymers Design. <i>Macromolecules</i> , 2019 , 52, 2214-2221	5.5	21
285	Recent Advances in Fullerene-free Polymer Solar Cells: Materials and Devices. <i>Chinese Journal of Chemistry</i> , 2019 , 37, 207-215	4.9	36
284	A Self-Organized Poly(vinylpyrrolidone)-Based Cathode Interlayer in Inverted Fullerene-Free Organic Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1804657	24	35

283	A Printable Organic Cathode Interlayer Enables over 13% Efficiency for 1-cm ² Organic Solar Cells. <i>Joule</i> , 2019 , 3, 227-239	27.8	127
282	Quenching to the Percolation Threshold in Organic Solar Cells. <i>Joule</i> , 2019 , 3, 443-458	27.8	128
281	Solar Cells: Surpassing 10% Efficiency Benchmark for Nonfullerene Organic Solar Cells by Scalable Coating in Air from Single Nonhalogenated Solvent (Adv. Mater. 8/2018). <i>Advanced Materials</i> , 2018 , 30, 1870054	24	3
280	Solution-Processable Conjugated Polymers as Anode Interfacial Layer Materials for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1800022	21.8	71
279	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
278	A Semitransparent Inorganic Perovskite Film for Overcoming Ultraviolet Light Instability of Organic Solar Cells and Achieving 14.03% Efficiency. <i>Advanced Materials</i> , 2018 , 30, e1800855	24	183
277	Stable and Efficient Organo-Metal Halide Hybrid Perovskite Solar Cells via π -Conjugated Lewis Base Polymer Induced Trap Passivation and Charge Extraction. <i>Advanced Materials</i> , 2018 , 30, e1706126	24	192
276	The Critical Role of Anode Work Function in Non-Fullerene Organic Solar Cells Unveiled by Counterion-Size-Controlled Self-Doping Conjugated Polymers. <i>Chemistry of Materials</i> , 2018 , 30, 1078-1084	8.6	32
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271	Surpassing 10% Efficiency Benchmark for Nonfullerene Organic Solar Cells by Scalable Coating in Air from Single Nonhalogenated Solvent. <i>Advanced Materials</i> , 2018 , 30, 1705485	24	127
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