

Harald Ade

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.

425
papers

35,470
citations

93
h-index

175
g-index

441
ext. papers

39,725
ext. citations

12.5
avg, IF

7.58
L-index

#	Paper	IF	Citations
425	Conjugated polymers with controllable interfacial order and energetics enable tunable heterojunctions in organic and colloidal quantum dot photovoltaics. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 1788-1801	13	2
424	Semi-paracrystallinity in semi-conducting polymers.. <i>Materials Horizons</i> , 2022 ,	14.4	6
423	Branched Alkoxy Side Chain Enables High-Performance Non-Fullerene Acceptors with High Open-Circuit Voltage and Highly Ordered Molecular Packing. <i>Chemistry of Materials</i> , 2022 , 34, 2059-2068	9.6	6
422	16.52% Efficiency All-Polymer Solar Cells with High Tolerance of the Photoactive Layer Thickness.. <i>Advanced Materials</i> , 2022 , e2108749	24	12
421	Optimizing Spectral and Morphological Match of Nonfullerene Acceptors toward Efficient Indoor Organic Photovoltaics with Enhanced Light Source Adaptability. <i>Nano Energy</i> , 2022 , 107281	17.1	2
420	Upper and Apparent Lower Critical Solution Temperature Branches in the Phase Diagram of Polymer:Small Molecule Semiconducting Systems. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10845-10853	6.4	0
419	Understanding, quantifying, and controlling the molecular ordering of semiconducting polymers: from novices to experts and amorphous to perfect crystals. <i>Materials Horizons</i> , 2021 ,	14.4	29
418	High Miscibility Compatible with Ordered Molecular Packing Enables an Excellent Efficiency of 16.2% in All-small-molecule Organic Solar Cells. <i>Advanced Materials</i> , 2021 , e2106316	24	15
417	Resolving the Molecular Origin of Mechanical Relaxations in Donor-Acceptor Polymer Semiconductors. <i>Advanced Functional Materials</i> , 2021 , 2105597	15.6	3
416	Baseplate Temperature-Dependent Vertical Composition Gradient in Pseudo-Bilayer Films for Printing Non-Fullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2102135	21.8	9
415	Alkyl-Chain Branching of Non-Fullerene Acceptors Flanking Conjugated Side Groups toward Highly Efficient Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2102596	21.8	19
414	Balancing crop production and energy harvesting in organic solar-powered greenhouses. <i>Cell Reports Physical Science</i> , 2021 , 2, 100381	6.1	15
413	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
412	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
411	Orientalional Ordering within Semiconducting Polymer Fibrils. <i>Advanced Functional Materials</i> , 2021 , 31, 2102522	15.6	2
410	A Difluoro-Monobromo End Group Enables High-Performance Polymer Acceptor and Efficient All-Polymer Solar Cells Processable with Green Solvent under Ambient Condition. <i>Advanced Functional Materials</i> , 2021 , 31, 2100791	15.6	28
409	A Chlorinated Donor Polymer Achieving High-Performance Organic Solar Cells with a Wide Range of Polymer Molecular Weight. <i>Advanced Functional Materials</i> , 2021 , 31, 2102413	15.6	17

408	Insights into Bulk-Heterojunction Organic Solar Cells Processed from Green Solvent. <i>Solar Rrl</i> , 2021 , 5, 2100213	7.1	11
407	Designing Simple Conjugated Polymers for Scalable and Efficient Organic Solar Cells. <i>ChemSusChem</i> , 2021 , 14, 3561-3568	8.3	13
406	Optimized Active Layer Morphologies via Ternary Copolymerization of Polymer Donors for 17.6 % Efficiency Organic Solar Cells with Enhanced Fill Factor. <i>Angewandte Chemie</i> , 2021 , 133, 2352-2359	3.6	9
405	Optimized Active Layer Morphologies via Ternary Copolymerization of Polymer Donors for 17.6 % Efficiency Organic Solar Cells with Enhanced Fill Factor. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2322-2329	16.4	94
404	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
403	Carboxylate substituted pyrazine: A simple and low-cost building block for novel wide bandgap polymer donor enables 15.3% efficiency in organic solar cells. <i>Nano Energy</i> , 2021 , 82, 105679	17.1	17
402	Silicon Phthalocyanines for n-Type Organic Thin-Film Transistors: Development of StructureProperty Relationships. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 325-336	4	13
401	Functionalization of Benzotriazole-Based Conjugated Polymers for Solar Cells: Heteroatom vs Substituents. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 30-41	4.3	6
400	High performance tandem organic solar cells via a strongly infrared-absorbing narrow bandgap acceptor. <i>Nature Communications</i> , 2021 , 12, 178	17.4	52
399	A History and Perspective of Non-Fullerene Electron Acceptors for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2003570	21.8	141
398	Optically Probing Field-Dependent Charge Dynamics in Non-Fullerene Organic Photovoltaics with Small Interfacial Energy Offsets. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 1714-1722	3.8	1
397	Modulation of Morphological, Mechanical, and Photovoltaic Properties of Ternary Organic Photovoltaic Blends for Optimum Operation. <i>Advanced Energy Materials</i> , 2021 , 11, 2003506	21.8	50
396	Pseudo-bilayer architecture enables high-performance organic solar cells with enhanced exciton diffusion length. <i>Nature Communications</i> , 2021 , 12, 468	17.4	61
395	A molecular interaction-diffusion framework for predicting organic solar cell stability. <i>Nature Materials</i> , 2021 , 20, 525-532	27	71
394	Relationship between charge transfer state electroluminescence and the degradation of organic photovoltaics. <i>Applied Physics Letters</i> , 2021 , 118, 063301	3.4	1
393	Reducing Energy Disorder of Hole Transport Layer by Charge Transfer Complex for High Performance p-i-n Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2006753	24	34
392	Effect of Palladium-Tetrakis(Triphenylphosphine) Catalyst Traces on Charge Recombination and Extraction in Non-Fullerene-based Organic Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2009363	15.6	10
391	The performance-stability conundrum of BTP-based organic solar cells. <i>Joule</i> , 2021 , 5, 2129-2147	27.8	24

390	Polymerized small molecular acceptor based all-polymer solar cells with an efficiency of 16.16% via tuning polymer blend morphology by molecular design. <i>Nature Communications</i> , 2021 , 12, 5264	17.4	50
389	Non-fullerene acceptor organic photovoltaics with intrinsic operational lifetimes over 30 years. <i>Nature Communications</i> , 2021 , 12, 5419	17.4	25
388	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
387	Morphological-Electrical Property Relation in Cu(In,Ga)(S,Se) Solar Cells: Significance of Crystal Grain Growth and Band Grading by Potassium Treatment. <i>Small</i> , 2020 , 16, e2003865	11	7
386	The Role of Demixing and Crystallization Kinetics on the Stability of Non-Fullerene Organic Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e2005348	24	30
385	Thermodynamic Properties and Molecular Packing Explain Performance and Processing Procedures of Three D18:NFA Organic Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e2005386	24	67
384	The Critical Role of Materials' Interaction in Realizing Organic Field-Effect Transistors Via High-Dilution Blending with Insulating Polymers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26239-26249	9.5	13
383	High-Performance All-Polymer Solar Cells: Synthesis of Polymer Acceptor by a Random Ternary Copolymerization Strategy. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15181-15185	16.4	92
382	High-Performance All-Polymer Solar Cells: Synthesis of Polymer Acceptor by a Random Ternary Copolymerization Strategy. <i>Angewandte Chemie</i> , 2020 , 132, 15293-15297	3.6	14
381	High-Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer. <i>Advanced Energy Materials</i> , 2020 , 10, 2000823	21.8	18
380	Optimization Requirements of Efficient Polythiophene:Nonfullerene Organic Solar Cells. <i>Joule</i> , 2020 , 4, 1278-1295	27.8	90
379	Synergistic Use of Pyridine and Selenophene in a Diketopyrrolopyrrole-Based Conjugated Polymer Enhances the Electron Mobility in Organic Transistors. <i>Advanced Functional Materials</i> , 2020 , 30, 2000489	15.6	20
378	Unifying Charge Generation, Recombination, and Extraction in Low-Offset Non-Fullerene Acceptor Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2001203	21.8	46
377	Enhanced hindrance from phenyl outer side chains on nonfullerene acceptor enables unprecedented simultaneous enhancement in organic solar cell performances with 16.7% efficiency. <i>Nano Energy</i> , 2020 , 76, 105087	17.1	48
376	Role of Secondary Thermal Relaxations in Conjugated Polymer Film Toughness. <i>Chemistry of Materials</i> , 2020 , 32, 6540-6549	9.6	10
375	Organic Solar Cells: High-Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer (Adv. Energy Mater. 25/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070109	21.8	
374	3,4-Dicyanothiophene—Versatile Building Block for Efficient Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1904247	21.8	35
373	Achieving Net Zero Energy Greenhouses by Integrating Semitransparent Organic Solar Cells. <i>Joule</i> , 2020 , 4, 490-506	27.8	96

372	Efficient Energy Funneling in Quasi-2D Perovskites: From Light Emission to Lasing. <i>Advanced Materials</i> , 2020 , 32, e1906571	24	68
371	Near-infrared electron acceptors with fused nonacyclic molecular backbones for nonfullerene organic solar cells. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1729-1738	7.8	12
370	Critical Role of Polymer Aggregation and Miscibility in Nonfullerene-Based Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2020 , 10, 1902430	21.8	29
369	Asymmetrically noncovalently fused-ring acceptor for high-efficiency organic solar cells with reduced voltage loss and excellent thermal stability. <i>Nano Energy</i> , 2020 , 74, 104861	17.1	39
368	Green solvent-processed organic solar cells based on a low cost polymer donor and a small molecule acceptor. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7718-7724	7.1	20
367	Side-chain engineering of medium bandgap polymer donors for efficient polymer solar cells. <i>Organic Electronics</i> , 2020 , 78, 105603	3.5	3
366	Millimeter wave direct-current transmission and reflection spectral data of some organic photo-responsive materials. <i>Data in Brief</i> , 2020 , 28, 104996	1.2	
365	Balanced Charge Transport Optimizes Industry-Relevant Ternary Polymer Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000538	7.1	9
364	Impact of Isomer Design on Physicochemical Properties and Performance in High-Efficiency All-Polymer Solar Cells. <i>Macromolecules</i> , 2020 , 53, 9026-9033	5.5	14
363	Enhanced efficiency in nonfullerene organic solar cells by tuning molecular order and domain characteristics. <i>Nano Energy</i> , 2020 , 77, 105310	17.1	15
362	Investigating the active layer thickness dependence of non-fullerene organic solar cells based on PM7 derivatives. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15459-15469	7.1	8
361	Organic Solar Cells with Large Insensitivity to Donor Polymer Molar Mass across All Acceptor Classes. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 5300-5308	4.3	5
360	Incorporation of alkylthio side chains on benzothiadiazole-based non-fullerene acceptors enables high-performance organic solar cells with over 16% efficiency. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23239-23247	13	21
359	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
358	Long-range exciton diffusion in molecular non-fullerene acceptors. <i>Nature Communications</i> , 2020 , 11, 5220	17.4	87
357	Effect of the chlorine substitution position of the end-group on intermolecular interactions and photovoltaic performance of small molecule acceptors. <i>Energy and Environmental Science</i> , 2020 , 13, 5028-5038 ²⁹	35.4	29
356	Tailoring non-fullerene acceptors using selenium-incorporated heterocycles for organic solar cells with over 16% efficiency. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23756-23765	13	42
355	Selective Hole and Electron Transport in Efficient Quaternary Blend Organic Solar Cells. <i>Joule</i> , 2020 , 4, 1790-1805	27.8	79

354	Random Polymerization Strategy Leads to a Family of Donor Polymers Enabling Well-Controlled Morphology and Multiple Cases of High-Performance Organic Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e2003500	24	24
353	Enhanced mid-wavelength infrared refractive index of organically modified chalcogenide (ORMOCHALC) polymer nanocomposites with thermomechanical stability. <i>Optical Materials</i> , 2020 , 108, 110197	3.3	7
352	Novel Bimodal Silver Nanowire Network as Top Electrodes for Reproducible and High-Efficiency Semitransparent Organic Photovoltaics. <i>Solar Rrl</i> , 2020 , 4, 2000328	7.1	21
351	Precise Control of Phase Separation Enables 12% Efficiency in All Small Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2001589	21.8	25
350	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
349	Color-neutral, semitransparent organic photovoltaics for power window applications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 21147-21154	11.5	44
348	The role of bulk and interfacial morphology in charge generation, recombination, and extraction in non-fullerene acceptor organic solar cells. <i>Energy and Environmental Science</i> , 2020 , 13, 3679-3692	35.4	68
347	Effect of main and side chain chlorination on the photovoltaic properties of benzodithiophene-alt-benzotriazole polymers. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15426-15435	7.1	7
346	Modulating Energy Level on an A-D-A?-D-A-Type Unfused Acceptor by a Benzothiadiazole Core Enables Organic Solar Cells with Simple Procedure and High Performance. <i>Solar Rrl</i> , 2020 , 4, 2000421	7.1	25
345	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
344	Effects of Short-Axis Alkoxy Substituents on Molecular Self-Assembly and Photovoltaic Performance of Indacenodithiophene-Based Acceptors. <i>Advanced Functional Materials</i> , 2020 , 30, 1906855	15.6	32
343	A 3D nonfullerene electron acceptor with a 9,9?-bicarbazole backbone for high-efficiency organic solar cells. <i>Organic Electronics</i> , 2020 , 84, 105784	3.5	3
342	Conjugation-Curtailing of Benzodithionopyran-Cored Molecular Acceptor Enables Efficient Air-Processed Small Molecule Solar Cells. <i>Small</i> , 2019 , 15, e1902656	11	11
341	Multi-length scale morphology of nonfullerene all-small molecule blends and its relation to device function in organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 137-144	7.8	10
340	A decacyclic indacenodithiophene-based non-fullerene electron acceptor with meta-alkyl-phenyl substitutions for polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4063-4071	13	13
339	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
338	Black phosphorus nanoflakes as morphology modifier for efficient fullerene-free organic solar cells with high fill-factor and better morphological stability. <i>Nano Research</i> , 2019 , 12, 777-783	10	25
337	Chlorinated Thiophene End Groups for Highly Crystalline Alkylated Non-Fullerene Acceptors toward Efficient Organic Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 6672-6676	9.6	32

336	Efficient DPP Donor and Nonfullerene Acceptor Organic Solar Cells with High Photon-to-Current Ratio and Low Energetic Loss. <i>Advanced Functional Materials</i> , 2019 , 29, 1902441	15.6	32
335	Effect of Replacing Thiophene by Selenophene on the Photovoltaic Performance of Wide Bandgap Copolymer Donors. <i>Macromolecules</i> , 2019 , 52, 4776-4784	5.5	17
334	Temperature-Dependent Aggregation Donor Polymers Enable Highly Efficient Sequentially Processed Organic Photovoltaics Without the Need of Orthogonal Solvents. <i>Advanced Functional Materials</i> , 2019 , 29, 1902478	15.6	23
333	Quantifying and Understanding Voltage Losses Due to Nonradiative Recombination in Bulk Heterojunction Organic Solar Cells with Low Energetic Offsets. <i>Advanced Energy Materials</i> , 2019 , 9, 1901077	21.8	47
332	Aryl-Perfluoroaryl Interaction in Two-Dimensional Organic-Inorganic Hybrid Perovskites Boosts Stability and Photovoltaic Efficiency 2019 , 1, 171-176		47
331	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
330	Delineation of Thermodynamic and Kinetic Factors that Control Stability in Non-fullerene Organic Solar Cells. <i>Joule</i> , 2019 , 3, 1328-1348	27.8	74
329	Intramolecular π -stacked perylene-diimide acceptors for non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8136-8143	13	22
328	Synthetic control over orientational degeneracy of spacer cations enhances solar cell efficiency in two-dimensional perovskites. <i>Nature Communications</i> , 2019 , 10, 1276	17.4	144
327	The impact of fluorination on both donor polymer and non-fullerene acceptor: The more fluorine, the merrier. <i>Nano Research</i> , 2019 , 12, 2400-2405	10	20
326	Sequential Deposition of Organic Films with Eco-Compatible Solvents Improves Performance and Enables Over 12%-Efficiency Nonfullerene Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1808153	24	80
325	Highly Efficient, Stable, and Ductile Ternary Nonfullerene Organic Solar Cells from a Two-Donor Polymer Blend. <i>Advanced Materials</i> , 2019 , 31, e1808279	24	50
324	Rational Strategy to Stabilize an Unstable High-Efficiency Binary Nonfullerene Organic Solar Cells with a Third Component. <i>Advanced Energy Materials</i> , 2019 , 9, 1900376	21.8	88
323	Dual Sensitizer and Processing-Aid Behavior of Donor Enables Efficient Ternary Organic Solar Cells. <i>Joule</i> , 2019 , 3, 846-857	27.8	68
322	Efficient Thick-Film Polymer Solar Cells with Enhanced Fill Factors via Increased Fullerene Loading. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10794-10800	9.5	17
321	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
320	A multi-objective optimization-based layer-by-layer blade-coating approach for organic solar cells: rational control of vertical stratification for high performance. <i>Energy and Environmental Science</i> , 2019 , 12, 3118-3132	35.4	83
319	Utilizing Difluorinated Thiophene Units To Improve the Performance of Polymer Solar Cells. <i>Macromolecules</i> , 2019 , 52, 6523-6532	5.5	11

318	The Importance of Entanglements in Optimizing the Mechanical and Electrical Performance of All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 5124-5132	9.6	52
317	High voltage all polymer solar cells with a polymer acceptor based on NDI and benzotriazole. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9031-9037	7.1	5
316	Alkyl Chain Tuning of Small Molecule Acceptors for Efficient Organic Solar Cells. <i>Joule</i> , 2019 , 3, 3020-3033	27.8	504
315	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
314	Effect of Cyano Substitution on Conjugated Polymers for Bulk Heterojunction Solar Cells. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 3313-3322	4.3	12
313	Soft X-Ray Scattering Characterization of Polymer Semiconductors 2019 , 427-458		6
312	Polymer Side-Chain Variation Induces Microstructural Disparity in Nonfullerene Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 6568-6577	9.6	35
311	Unveiling the operation mechanism of layered perovskite solar cells. <i>Nature Communications</i> , 2019 , 10, 1008	17.4	143
310	Twisted conjugated molecules as donor materials for efficient all-small-molecule organic solar cells processed with tetrahydrofuran. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23008-23018	13	21
309	The Critical Impact of Material and Process Compatibility on the Active Layer Morphology and Performance of Organic Ternary Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1802293	21.8	28
308	Revealing the Impact of F4-TCNQ as Additive on Morphology and Performance of High-Efficiency Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1806262	15.6	41
307	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
306	Efficient All-Polymer Solar Cells based on a New Polymer Acceptor Achieving 10.3% Power Conversion Efficiency. <i>ACS Energy Letters</i> , 2019 , 4, 417-422	20.1	160
305	Competition between Exceptionally Long-Range Alkyl Sidechain Ordering and Backbone Ordering in Semiconducting Polymers and Its Impact on Electronic and Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2019 , 29, 1806977	15.6	20
304	Quenching to the Percolation Threshold in Organic Solar Cells. <i>Joule</i> , 2019 , 3, 443-458	27.8	128
303	Isomery-Dependent Miscibility Enables High-Performance All-Small-Molecule Solar Cells. <i>Small</i> , 2019 , 15, e1804271	11	43
302	Rigid valence band shift due to molecular surface counter-doping of MoS ₂ . <i>Surface Science</i> , 2019 , 679, 254-258	1.8	7
301	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

300	The Role of FRET in Non-Fullerene Organic Solar Cells: Implications for Molecular Design. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 3764-3771	2.8	14
299	Molecular engineering of perylene-diimide-based polymer acceptors containing heteroacene units for all-polymer solar cells. <i>Organic Electronics</i> , 2018 , 58, 222-230	3.5	10
298	Quantitative relations between interaction parameter, miscibility and function in organic solar cells. <i>Nature Materials</i> , 2018 , 17, 253-260	27	409
297	MiscibilityFunction Relations in Organic Solar Cells: Significance of Optimal Miscibility in Relation to Percolation. <i>Advanced Energy Materials</i> , 2018 , 8, 1703058	21.8	175
296	Integrated circuits based on conjugated polymer monolayer. <i>Nature Communications</i> , 2018 , 9, 451	17.4	50
295	A polymer design strategy toward green solvent processed efficient non-fullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4324-4330	13	38
294	Controlling Blend Morphology for Ultrahigh Current Density in Nonfullerene Acceptor-Based Organic Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 669-676	20.1	187
293	Multiple Cases of Efficient Nonfullerene Ternary Organic Solar Cells Enabled by an Effective Morphology Control Method. <i>Advanced Energy Materials</i> , 2018 , 8, 1701370	21.8	116
292	Alkyl Chain Regiochemistry of Benzotriazole-Based Donor Polymers Influencing Morphology and Performances of Non-Fullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1702427	21.8	31
291	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
290	A High-Efficiency Organic Solar Cell Enabled by the Strong Intramolecular Electron Push-Pull Effect of the Nonfullerene Acceptor. <i>Advanced Materials</i> , 2018 , 30, e1707170	24	295
289	Influence of Donor Polymer on the Molecular Ordering of Small Molecular Acceptors in Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1701674	21.8	46
288	High-Performance Wide Bandgap Copolymers Using an EDOT Modified Benzodithiophene Donor Block with 10.11% Efficiency. <i>Advanced Energy Materials</i> , 2018 , 8, 1602773	21.8	29
287	A Facile Method to Fine-Tune Polymer Aggregation Properties and Blend Morphology of Polymer Solar Cells Using Donor Polymers with Randomly Distributed Alkyl Chains. <i>Advanced Energy Materials</i> , 2018 , 8, 1701895	21.8	52
286	Charge Generation and Recombination in an Organic Solar Cell with Low Energetic Offsets. <i>Advanced Energy Materials</i> , 2018 , 8, 1701073	21.8	49
285	Effect of Side-Chain Engineering of Bithienylbenzodithiophene-alt-fluorobenzotriazole-Based Copolymers on the Thermal Stability and Photovoltaic Performance of Polymer Solar Cells. <i>Macromolecules</i> , 2018 , 51, 6028-6036	5.5	39
284	Effect of Ring-Fusion on Miscibility and Domain Purity: Key Factors Determining the Performance of PDI-Based Nonfullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1800234	21.8	59
283	Modulation of End Groups for Low-Bandgap Nonfullerene Acceptors Enabling High-Performance Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1801203	21.8	86

282	Effects of fused-ring regiochemistry on the properties and photovoltaic performance of n-type organic semiconductor acceptors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15933-15941	13	23
281	A Highly Crystalline Fused-Ring n-Type Small Molecule for Non-Fullerene Acceptor Based Organic Solar Cells and Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2018 , 28, 1802895	15.6	63
280	Long-Lived, Non-Geminate, Radiative Recombination of Photogenerated Charges in a Polymer/Small-Molecule Acceptor Photovoltaic Blend. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9996-10008	16.4	61
279	A Wide Band Gap Polymer with a Deep Highest Occupied Molecular Orbital Level Enables 14.2% Efficiency in Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7159-7167	16.4	579
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