

Xiaowei Zhan

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.

364
papers

40,429
citations

84
h-index

195
g-index

382
ext. papers

45,061
ext. citations

11.6
avg, IF

7.92
L-index

#	Paper	IF	Citations
364	Enhancing organic photovoltaic performance with 3D-transport dual nonfullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 1948-1955	13	2
363	Pushing the Efficiency of High Open-Circuit Voltage Binary Organic Solar Cells by Vertical Morphology Tuning.. <i>Advanced Science</i> , 2022 , e2200578	13.6	9
362	Revealing the Sole Impact of Acceptor's Molecular Conformation to Energy Loss and Device Performance of Organic Solar Cells through Positional Isomers.. <i>Advanced Science</i> , 2022 , e2103428	13.6	1
361	Uncovering the out-of-plane nanomorphology of organic photovoltaic bulk heterojunction by GTSAXS. <i>Nature Communications</i> , 2021 , 12, 6226	17.4	8
360	Isomeric Effect in Unidirectionally Extended Fused-Ring Electron Acceptors. <i>Chemistry of Materials</i> , 2021 , 33, 441-451	9.6	3
359	Precise Synthesis of Fused Decacyclic Electron Acceptor Isomers for Organic Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100163	7.1	4
358	Fast Response Organic Tandem Photodetector for Visible and Near-Infrared Digital Optical Communications. <i>Small</i> , 2021 , 17, e2101316	11	17
357	A Novel, Weakly N-Doped Cathode-Modifying Layer in Organic Solar Cells. <i>Energy Technology</i> , 2021 , 9, 2100281	3.5	1
356	Photophysical pathways in efficient bilayer organic solar cells: The importance of interlayer energy transfer. <i>Nano Energy</i> , 2021 , 84, 105924	17.1	14
355	Fused-Ring Electron Acceptors for Photovoltaics and Beyond. <i>Accounts of Chemical Research</i> , 2021 , 54, 132-143	24.3	109
354	Effects of Bridge on Fused-Ring Electron Acceptor Dimers. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 23-29	4.3	4
353	Advances in Organic Photovoltaics. <i>Acta Chimica Sinica</i> , 2021 , 79, 257	3.3	10
352	Unveiling the crystalline packing of Y6 in thin films by thermally induced Backbone-on orientation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17030-17038	13	7
351	Structural regulation of thiophene-fused benzotriazole as a bridge for A-ED-A type acceptor:P3HT-based OSCs to achieve high efficiency. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6520-6528	13	8
350	Enhancing photovoltaic performance via aggregation dynamics control in fused-ring electron acceptor. <i>Aggregate</i> , 2021 , 2, e29	22.9	3
349	Intrinsically inert hyperbranched interlayer for enhanced stability of organic solar cells. <i>Science Bulletin</i> , 2021 , 67, 171-171	10.6	1
348	Pyrrolo[3,2-b]pyrrole-based fused-ring electron acceptors with strong near-infrared absorption beyond 1000 nm. <i>Dyes and Pigments</i> , 2021 , 195, 109705	4.6	0

347	Printing fabrication of large-area non-fullerene organic solar cells. <i>Materials Horizons</i> , 2021 ,	14.4	11
346	Towards High-Performance Semitransparent Organic Photovoltaics: Dual-Functional -Type Soft Interlayer.. <i>ACS Nano</i> , 2021 ,	16.7	1
345	Reducing VOC loss via structure compatible and high lowest unoccupied molecular orbital nonfullerene acceptors for over 17%-efficiency ternary organic photovoltaics. <i>EcoMat</i> , 2020 , 2, e12061	9.4	15
344	Transparent Solar Cells: Light Harvesting at Oblique Incidence Decoupled from Transmission in Organic Solar Cells Exhibiting 9.8% Efficiency and 50% Visible Light Transparency (Adv. Energy Mater. 17/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070078	21.8	
343	Effects of alkoxylation position on fused-ring electron acceptors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15128-15134	7.1	6
342	Highly Conjugated, Fused-Ring, Quadrupolar Organic Chromophores with Large Two-Photon Absorption Cross-Sections in the Near-Infrared. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 4367-4378	2.8	12
341	High-Performance Nonfullerene Organic Solar Cells with Unusual Inverted Structure. <i>Solar Rrl</i> , 2020 , 4, 2000115	7.1	13
340	High-Efficiency Perovskite Quantum Dot Hybrid Nonfullerene Organic Solar Cells with Near-Zero Driving Force. <i>Advanced Materials</i> , 2020 , 32, e2002066	24	28
339	An Alkoxy-Solubilizing Decacyclic Electron Acceptor for Efficient Ecofriendly As-Cast Blade-Coated Organic Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000108	7.1	7
338	Light Harvesting at Oblique Incidence Decoupled from Transmission in Organic Solar Cells Exhibiting 9.8% Efficiency and 50% Visible Light Transparency. <i>Advanced Energy Materials</i> , 2020 , 10, 1904196	21.8	30
337	High-Sensitivity Visible-Near Infrared Organic Photodetectors Based on Non-Fullerene Acceptors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17769-17775	9.5	25
336	Advanced functional polymer materials. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1803-1915	7.8	70
335	Ultrafast and broadband photodetectors based on a perovskite/organic bulk heterojunction for large-dynamic-range imaging. <i>Light: Science and Applications</i> , 2020 , 9, 31	16.7	194
334	Effects of linking units on fused-ring electron acceptor dimers. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13735-13741	13	7
333	Enhancing Performance of Fused-Ring Electron Acceptor Using Pyrrole Instead of Thiophene. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14029-14036	9.5	18
332	Recent progress of all-polymer solar cells [From chemical structure and device physics to photovoltaic performance. <i>Materials Science and Engineering Reports</i> , 2020 , 140, 100542	30.9	49
331	Comparison of Fused-Ring Electron Acceptors with One- and Multidimensional Conformations. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23976-23983	9.5	7
330	A thiophene-fused benzotriazole unit as a [bridge]n A-[B]-[A] type acceptor to achieve more balanced JSC and VOC for OSCs. <i>Organic Electronics</i> , 2020 , 82, 105705	3.5	10

329	Designing a thiophene-fused quinoxaline unit to build DA copolymers for non-fullerene organic solar cells. <i>Dyes and Pigments</i> , 2020 , 174, 108022	4.6	5
328	Color and transparency-switchable semitransparent polymer solar cells towards smart windows. <i>Science Bulletin</i> , 2020 , 65, 217-224	10.6	42
327	High-performance NIR-sensitive fused tetrathienoacene electron acceptors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3011-3017	13	11
326	Film-depth-dependent crystallinity for light transmission and charge transport in semitransparent organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 401-411	13	25
325	Passivated Metal Oxide n-Type Contacts for Efficient and Stable Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1111-1118	6.1	17
324	Charge separation boosts exciton diffusion in fused ring electron acceptors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23304-23312	13	8
323	Reducing Voltage Losses in the A-DA?D-A Acceptor-Based Organic Solar Cells. <i>CheM</i> , 2020 , 6, 2147-2161	16.2	73
322	Fused-ring electron acceptors in China. <i>Science China Chemistry</i> , 2020 , 63, 1179-1181	7.9	10
321	Butterfly Effects Arising from Starting Materials in Fused-Ring Electron Acceptors. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20124-20133	16.4	45
320	Effects of Fluorination Position on Fused-Ring Electron Acceptors. <i>Small Structures</i> , 2020 , 1, 2000006	8.7	4
319	Ferrocene as a highly volatile solid additive in non-fullerene organic solar cells with enhanced photovoltaic performance. <i>Energy and Environmental Science</i> , 2020 , 13, 5117-5125	35.4	46
318	Ternary Blending Driven Molecular Reorientation of Non-Fullerene Acceptor IDIC with Backbone Order. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10814-10822	6.1	10
317	Enhancing Open-Circuit Voltage of High-Efficiency Nonfullerene Ternary Solar Cells with a Star-Shaped Acceptor. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 50660-50667	9.5	6
316	Effect of the Energy Offset on the Charge Dynamics in Nonfullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43984-43991	9.5	10
315	Transparent Hole-Transporting Frameworks: A Unique Strategy to Design High-Performance Semitransparent Organic Photovoltaics. <i>Advanced Materials</i> , 2020 , 32, e2003891	24	34
314	Side-Chain Engineering of Benzodithiophene-Bridged Dimeric Porphyrin Donors for All-Small-Molecule Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41506-41514	9.5	16
313	Enabling High-Performance Tandem Organic Photovoltaic Cells by Balancing the Front and Rear Subcells. <i>Advanced Materials</i> , 2020 , 32, e2002315	24	16
312	ITC-2Cl: A Versatile Middle-Bandgap Nonfullerene Acceptor for High-Efficiency Panchromatic Ternary Organic Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900377	7.1	20

311	Constructing High-Performance Organic Photovoltaics via Emerging Non-Fullerene Acceptors and Tandem-Junction Structure. <i>Advanced Energy Materials</i> , 2020 , 10, 2000746	21.8	27
310	Integrated Perovskite/Organic Photovoltaics with Ultrahigh Photocurrent and Photoresponse Approaching 1000 nm. <i>Solar Rrl</i> , 2020 , 4, 2000140	7.1	10
309	High-Performance Fluorinated Fused-Ring Electron Acceptor with 3D Stacking and Exciton/Charge Transport. <i>Advanced Materials</i> , 2020 , 32, e2000645	24	81
308	Fused octacyclic electron acceptor isomers for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21432-21437	13	21
307	High-performance organic solar cells based on polymer donor/small molecule donor/nonfullerene acceptor ternary blends. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2268-2274	13	32
306	New roles of fused-ring electron acceptors in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4766-4770	13	3
305	Pairing 1D/2D-conjugation donors/acceptors towards high-performance organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 276-283	7.8	7
304	Rylene Diimide Electron Acceptors for Organic Solar Cells. <i>Trends in Chemistry</i> , 2019 , 1, 869-881	14.8	41
303	Recombination between Photogenerated and Electrode-Induced Charges Dominates the Fill Factor Losses in Optimized Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3473-3480	6.4	17
302	Nonfullerene All-Small-Molecule Organic Solar Cells. <i>ACS Energy Letters</i> , 2019 , 4, 1241-1250	20.1	112
301	Modulating morphology via side-chain engineering of fused ring electron acceptors for high performance organic solar cells. <i>Science China Chemistry</i> , 2019 , 62, 790-796	7.9	16
300	Ternary Organic Solar Cells with Small Nonradiative Recombination Loss. <i>ACS Energy Letters</i> , 2019 , 4, 1196-1203	20.1	84
299	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
298	Impact of an electron withdrawing group on the thiophene-fused benzotriazole unit on the photovoltaic performance of the derived polymer solar cells. <i>Dyes and Pigments</i> , 2019 , 166, 381-389	4.6	7
297	High Exciton Diffusion Coefficients in Fused Ring Electron Acceptor Films. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6922-6929	16.4	105
296	Inverse Optical Cavity Design for Ultrabroadband Light Absorption Beyond the Conventional Limit in Low-Bandgap Nonfullerene AcceptorBased Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1900463	21.8	20
295	Comparison of Linear- and Star-Shaped Fused-Ring Electron Acceptors 2019 , 1, 367-374		30
294	Molecular Tuning of Titanium Complexes with Controllable Work Function for Efficient Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20800-20807	3.8	2

293	Z-Shaped Fused-Chrysene Electron Acceptors for Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33006-33011	9.5	14
292	Facile synthesis of high-performance nonfullerene acceptor isomers via a one stone two birds strategy. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20667-20674	13	15
291	Utilizing Difluorinated Thiophene Units To Improve the Performance of Polymer Solar Cells. <i>Macromolecules</i> , 2019 , 52, 6523-6532	5.5	11
290	Enhancing the of P3HT-Based OSCs via a Thiophene-Fused Aromatic Heterocycle as a "Bridge" for A-ED-FA-Type Acceptors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26005-26016	9.5	17
289	Highly Transparent Organic Solar Cells with All-Near-Infrared Photoactive Materials. <i>Small Methods</i> , 2019 , 3, 1900424	12.8	32
288	Black Phosphorous Quantum Dots Sandwiched Organic Solar Cells. <i>Small</i> , 2019 , 15, e1903977	11	22
287	Enhancing the Performance of a Fused-Ring Electron Acceptor by Unidirectional Extension. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19023-19031	16.4	102
286	Designing an Organic Acceptor with Unsymmetrical Structure Based on Rhodanine and Thiazolidine-2, 4-dione Units to Study the Structure-Property Relationship. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2019 , 35, 257-267	3.8	2
285	Effects of Terminal Groups in Third Components on Performance of Organic Solar Cells. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2019 , 35, 275-283	3.8	3
284	Assessing the energy offset at the electron donor/acceptor interface in organic solar cells through radiative efficiency measurements. <i>Energy and Environmental Science</i> , 2019 , 12, 3556-3566	35.4	52
283	Suppressing photo-oxidation of non-fullerene acceptors and their blends in organic solar cells by exploring material design and employing friendly stabilizers. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25088-25101	13	61
282	Fused thienobenzene-thienothiophene electron acceptors for organic solar cells. <i>Journal of Energy Chemistry</i> , 2019 , 37, 58-65	12	3
281	High-Performance Mid-Bandgap Fused-Pyrene Electron Acceptor. <i>Chemistry of Materials</i> , 2019 , 31, 6484-6490	16.9	31
280	Unraveling Sunlight by Transparent Organic Semiconductors toward Photovoltaic and Photosynthesis. <i>ACS Nano</i> , 2019 , 13, 1071-1077	16.7	89
279	High-Performance Fullerene-Free Polymer Solar Cells Featuring Efficient Photocurrent Generation from Dual Pathways and Low Nonradiative Recombination Loss. <i>ACS Energy Letters</i> , 2019 , 4, 8-16	20.1	49
278	Efficient Quaternary Organic Solar Cells with Parallel-Alloy Morphology. <i>Advanced Functional Materials</i> , 2019 , 29, 1806804	15.6	47
277	Efficient Tandem Organic Photovoltaics with Tunable Rear Sub-cells. <i>Joule</i> , 2019 , 3, 432-442	27.8	54
276	Enhancing the Performance of Polymer Solar Cells via Core Engineering of NIR-Absorbing Electron Acceptors. <i>Advanced Materials</i> , 2018 , 30, e1706571	24	255

275	Balanced Partnership between Donor and Acceptor Components in Nonfullerene Organic Solar Cells with >12% Efficiency. <i>Advanced Materials</i> , 2018 , 30, e1706363	24	148
274	A new perspective for organic solar cells: triplet nonfullerene acceptors. <i>Science China Chemistry</i> , 2018 , 61, 637-638	7.9	3
273	Next-generation organic photovoltaics based on non-fullerene acceptors. <i>Nature Photonics</i> , 2018 , 12, 131-142	33.9	1155
272	Medium-Bandgap Small-Molecule Donors Compatible with Both Fullerene and Nonfullerene Acceptors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9587-9594	9.5	21
271	A new random D-A copolymer based on two different benzotriazole units as co-acceptors for polymer solar cells. <i>Polymer</i> , 2018 , 139, 123-129	3.9	2
270	Non-fullerene acceptors for organic solar cells. <i>Nature Reviews Materials</i> , 2018 , 3,	73.3	1634
269	Polymer Solar Cells with 90% External Quantum Efficiency Featuring an Ideal Light- and Charge-Manipulation Layer. <i>Advanced Materials</i> , 2018 , 30, e1706083	24	66
268	Enhancing the performance of the electron acceptor ITIC-Th via tailoring its end groups. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 537-543	7.8	36
267	Fused Tris(thienothiophene)-Based Electron Acceptor with Strong Near-Infrared Absorption for High-Performance As-Cast Solar Cells. <i>Advanced Materials</i> , 2018 , 30, 1705969	24	305
266	Ternary System with Controlled Structure: A New Strategy toward Efficient Organic Photovoltaics. <i>Advanced Materials</i> , 2018 , 30, 1705243	24	91
265	n-Type organic light-emitting transistors with high mobility and improved air stability. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 535-540	7.1	16
264	Panchromatic Ternary Photovoltaic Cells Using a Nonfullerene Acceptor Synthesized Using CBI Functionalization. <i>Chemistry of Materials</i> , 2018 , 30, 309-313	9.6	65
263	Small molecule donors based on benzodithiophene and diketopyrrolopyrrole compatible with both fullerene and non-fullerene acceptors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5843-5848	7.1	18
262	Morphology Control in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1703147	21.8	272
261	Fused-Ring Electron Acceptor ITIC-Th: A Novel Stabilizer for Halide Perovskite Precursor Solution. <i>Advanced Energy Materials</i> , 2018 , 8, 1703399	21.8	80
260	Narrow bandgap non-fullerene acceptor based on a thiophene-fused benzothiadiazole unit with a high short-circuit current density of over 20 mA cm ⁻² . <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6393-6401 ¹³		51
259	Enhancing the performance of non-fullerene organic solar cells via end group engineering of fused-ring electron acceptors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16638-16644	13	38
258	Electron-Transport Materials in Perovskite Solar Cells. <i>Small Methods</i> , 2018 , 2, 1800082	12.8	84

257	Alkoxy-Induced Near-Infrared Sensitive Electron Acceptor for High-Performance Organic Solar Cells. <i>Chemistry of Materials</i> , 2018 , 30, 4150-4156	9.6	66
256	Bay-annulated indigo based near-infrared sensitive polymer for organic solar cells. <i>Journal of Polymer Science Part A</i> , 2018 , 56, 213-220	2.5	6
255	Naphthodithiophene-Based Nonfullerene Acceptor for High-Performance Organic Photovoltaics: Effect of Extended Conjugation. <i>Advanced Materials</i> , 2018 , 30, 1704713	24	183
254	Enhancing the performance of a fused-ring electron acceptor via extending benzene to naphthalene. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 66-71	7.1	34
253	Breaking 10% Efficiency in Semitransparent Solar Cells with Fused-Undecacyclic Electron Acceptor. <i>Chemistry of Materials</i> , 2018 , 30, 239-245	9.6	144
252	NIR polymers and phototransistors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 13049-13058	7.1	19
251	High-performance ternary organic solar cells with photoresponses beyond 1000 nm. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24210-24215	13	25
250	Fullerene derivative anchored SnO ₂ for high-performance perovskite solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 3463-3471	35.4	123
249	Fluorinated Thieno[2',3':4,5]benzo[1,2-][1,2,3]triazole: New Acceptor Unit To Construct Polymer Donors. <i>ACS Omega</i> , 2018 , 3, 13894-13901	3.9	6
248	Achieving Balanced Crystallinity of Donor and Acceptor by Combining Blade-Coating and Ternary Strategies in Organic Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1805041	24	105
247	High-Performance Fused Ring Electron Acceptor-Perovskite Hybrid. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14938-14944	16.4	51
246	Dual-Accepting-Unit Design of Donor Material for All-Small-Molecule Organic Solar Cells with Efficiency Approaching 11%. <i>Chemistry of Materials</i> , 2018 , 30, 8661-8668	9.6	78
245	Convenient fabrication of conjugated polymer semiconductor nanotubes and their application in organic electronics. <i>Royal Society Open Science</i> , 2018 , 5, 180868	3.3	2
244	Unique Energy Alignments of a Ternary Material System toward High-Performance Organic Photovoltaics. <i>Advanced Materials</i> , 2018 , 30, e1801501	24	110
243	Nonfullerene Acceptor with "Donor-Acceptor Combined Bridge" for Organic Photovoltaics with Large Open-Circuit Voltage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18984-18992	9.5	26
242	Hidden Structure Ordering Along Backbone of Fused-Ring Electron Acceptors Enhanced by Ternary Bulk Heterojunction. <i>Advanced Materials</i> , 2018 , 30, e1802888	24	177
241	Effect of Core Size on Performance of Fused-Ring Electron Acceptors. <i>Chemistry of Materials</i> , 2018 , 30, 5390-5396	9.6	77
240	Effect of Isomerization on High-Performance Nonfullerene Electron Acceptors. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9140-9147	16.4	296

239	Realizing Small Energy Loss of 0.55 eV, High Open-Circuit Voltage >1 V and High Efficiency >10% in Fullerene-Free Polymer Solar Cells via Energy Driver. <i>Advanced Materials</i> , 2017 , 29, 1605216	24	216
238	Fused Nonacyclic Electron Acceptors for Efficient Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1336-1343	16.4	729
237	Single-Junction Binary-Blend Nonfullerene Polymer Solar Cells with 12.1% Efficiency. <i>Advanced Materials</i> , 2017 , 29, 1700144	24	566
236	Rhodanine flanked indacenodithiophene as non-fullerene acceptor for efficient polymer solar cells. <i>Science China Chemistry</i> , 2017 , 60, 257-263	7.9	36
235	Fine-tuning solid state packing and significantly improving photovoltaic performance of conjugated polymers through side chain engineering via random polymerization. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5585-5593	13	14
234	High-Mobility p-Type Organic Semiconducting Interlayer Enhancing Efficiency and Stability of Perovskite Solar Cells. <i>Advanced Science</i> , 2017 , 4, 1700025	13.6	29
233	Fused Hexacyclic Nonfullerene Acceptor with Strong Near-Infrared Absorption for Semitransparent Organic Solar Cells with 9.77% Efficiency. <i>Advanced Materials</i> , 2017 , 29, 1701308	24	325
232	Designing a thiophene-fused benzoxadizole as an acceptor to build a narrow bandgap polymer for all-polymer solar cells. <i>RSC Advances</i> , 2017 , 7, 19990-19995	3.7	6
231	Conjugated Lewis Base: Efficient Trap-Passivation and Charge-Extraction for Hybrid Perovskite Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1604545	24	431
230	Enhancing performance of non-fullerene organic solar cells via side chain engineering of fused-ring electron acceptors. <i>Dyes and Pigments</i> , 2017 , 139, 627-634	4.6	40
229	A perylene diimide based polymer: a dual function interfacial material for efficient perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1079-1086	7.8	43
228	Donor polymer fluorination doubles the efficiency in non-fullerene organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22536-22541	13	23
227	Fluorinated fused nonacyclic interfacial materials for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21414-21421	13	45
226	Constructing D _A copolymers based on thiophene-fused benzotriazole units containing different alkyl side-chains for non-fullerene polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8179-8186	7.1	17
225	Enhancing Performance of Nonfullerene Acceptors via Side-Chain Conjugation Strategy. <i>Advanced Materials</i> , 2017 , 29, 1702125	24	227
224	Ladder-type nonacyclic indacenodithieno[3,2-b]indole for highly efficient organic field-effect transistors and organic photovoltaics. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8988-8998	7.1	9
223	A novel hole extraction layer to enhance the performance of inverted organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25385-25390	13	4
222	Enhancing Efficiency and Stability of Organic Solar Cells by UV Absorbent. <i>Solar Rrl</i> , 2017 , 1, 1700148	7.1	13

221	A low temperature processed fused-ring electron transport material for efficient planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24820-24825	13	36
220	An amino-substituted perylene diimide polymer for conventional perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2078-2084	7.8	15
219	Nonfullerene acceptor with strong near-infrared absorption for polymer solar cells. <i>Dyes and Pigments</i> , 2017 , 137, 553-559	4.6	12
218	Mapping Polymer Donors toward High-Efficiency Fullerene Free Organic Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1604155	24	335
217	Perylene and naphthalene diimide copolymers for all-polymer solar cells: Effect of perylene/naphthalene ratio. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 682-689	2.5	18
216	Spiro[fluorene-9,9'-xanthene]-based hole transporting materials for efficient perovskite solar cells with enhanced stability. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 100-110	7.8	67
215	Efficient Inverted Organic Solar Cells Based on a Fullerene Derivative-Modified Transparent Cathode. <i>Materials</i> , 2017 , 10,	3.5	9
214	Effect of Alkyl Side Chains of Conjugated Polymer Donors on the Device Performance of Non-Fullerene Solar Cells. <i>Macromolecules</i> , 2016 , 49, 6445-6454	5.5	70
213	Semitransparent, non-fullerene and flexible all-plastic solar cells. <i>Polymer</i> , 2016 , 107, 108-112	3.9	36
212	Nonfullerene Tandem Organic Solar Cells with High Open-Circuit Voltage of 1.97 V. <i>Advanced Materials</i> , 2016 , 28, 9729-9734	24	98
211	Structure Evolution of Oligomer Fused-Ring Electron Acceptors toward High Efficiency of As-Cast Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1600854	21.8	141
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209	Triarylamine: Versatile Platform for Organic, Dye-Sensitized, and Perovskite Solar Cells. <i>Chemical Reviews</i> , 2016 , 116, 14675-14725	68.1	319
208	Polymer Dots of Peryleneimide-Functionalized Polyethyleneimine: Facile Synthesis and Effective Fluorescent Sensing of Iron (III) Ions. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 2052-2056	4.8	11
207	Influence of Thiophene Moiety on the Excited State Properties of PushPull Chromophores. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13922-13930	3.8	10
206	Roll-coating fabrication of flexible organic solar cells: comparison of fullerene and fullerene-free systems. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1044-1051	13	73
205	High-Performance Electron Acceptor with Thienyl Side Chains for Organic Photovoltaics. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4955-61	16.4	831
204	Stability of organic solar cells: challenges and strategies. <i>Chemical Society Reviews</i> , 2016 , 45, 2544-82	58.5	618

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198	Efficient fullerene-free organic solar cells based on fused-ring oligomer molecules. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1486-1494	13	45
197	Electron-transporting third component modifying cathode for simplified inverted ternary blend solar cells. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1051-1056	7.1	18
196	Oligomer Molecules for Efficient Organic Photovoltaics. <i>Accounts of Chemical Research</i> , 2016 , 49, 175-83	24.3	492
195	Asymmetric Diketopyrrolopyrrole Conjugated Polymers for Field-Effect Transistors and Polymer Solar Cells Processed from a Nonchlorinated Solvent. <i>Advanced Materials</i> , 2016 , 28, 943-50	24	128
194	Alloy Acceptor: Superior Alternative to PCBM toward Efficient and Stable Organic Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 8021-8028	24	189
193	Molecular Lock: A Versatile Key to Enhance Efficiency and Stability of Organic Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 5822-9	24	114
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39	Photo- and electroluminescence properties of fluorene-based copolymers containing electron- or hole-transporting unit. <i>Thin Solid Films</i> , 2003 , 440, 247-254	2.2	16
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28	Transition metal acetylide catalysts for polymerization of alkynes. <i>Journal of Molecular Catalysis A</i> , 2001 , 169, 27-31		21
27	Transition metal acetylide catalysts for polymerization of alkynes. <i>Journal of Molecular Catalysis A</i> , 2001 , 169, 57-62		15
26	Transition metal acetylide catalysts for polymerization of alkynes. <i>Journal of Molecular Catalysis A</i> , 2001 , 169, 63-66		20
25	Poly(p-diethynylbenzene) Derivatives for Nonlinear Optics. <i>Macromolecular Rapid Communications</i> , 2001 , 22, 358-362	4.8	19
24	Polymerization of Substituted Acetylenes Carrying Non-Polar and Polar Groups with Transition Metal Acetylide Catalysts. <i>Macromolecular Rapid Communications</i> , 2001 , 22, 530-534	4.8	14

23	A Novel Bipolar Electroluminescent Poly(arylene ethynylene) Consisting of Carbazole and Diethynylthiophene Units. <i>Macromolecular Chemistry and Physics</i> , 2001 , 202, 2341-2345	2.6	16
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16	Efficient blue emission from siloles. <i>Journal of Materials Chemistry</i> , 2001 , 11, 2974-2978		514
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