

List of Publications by Citations

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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	Nonfullerene Acceptor Molecules for Bulk Heterojunction Organic Solar Cells. <i>Chemical Reviews</i> , 2018 , 118, 3447-3507	68.1	1051
384	Interface Engineering for Organic Electronics. <i>Advanced Functional Materials</i> , 2010 , 20, 1371-1388	15.6	806
383	Achieving over 16% efficiency for single-junction organic solar cells. <i>Science China Chemistry</i> , 2019 , 62, 746-752	7.9	723
382	A series of simple oligomer-like small molecules based on oligothiophenes for solution-processed solar cells with high efficiency. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3886-93	16.4	722
381	Small-molecule solar cells with efficiency over 9%. <i>Nature Photonics</i> , 2015 , 9, 35-41	33.9	701
380	Inverted polymer solar cells with 8.4% efficiency by conjugated polyelectrolyte. <i>Energy and Environmental Science</i> , 2012 , 5, 8208	35.4	576
379	Donor-acceptor conjugated polymer based on naphtho[1,2-c:5,6-c']bis[1,2,5]thiadiazole for high-performance polymer solar cells. <i>Journal of the American Chemical Society</i> , 2011 , 133, 9638-41	16.4	554
378	Improved high-efficiency organic solar cells via incorporation of a conjugated polyelectrolyte interlayer. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8416-9	16.4	515
377	Novel Electroluminescent Conjugated Polyelectrolytes Based on Polyfluorene. <i>Chemistry of Materials</i> , 2004 , 16, 708-716	9.6	509
376	Recent development of push-pull conjugated polymers for bulk-heterojunction photovoltaics: rational design and fine tailoring of molecular structures. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10416		428
375	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
374	Recent advances in water/alcohol-soluble conjugated materials: new materials and growing applications in solar cells. <i>Chemical Society Reviews</i> , 2013 , 42, 9071-104	58.5	400
373	Deep absorbing porphyrin small molecule for high-performance organic solar cells with very low energy losses. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7282-5	16.4	396
372	Water/alcohol soluble conjugated polymers as highly efficient electron transporting/injection layer in optoelectronic devices. <i>Chemical Society Reviews</i> , 2010 , 39, 2500-21	58.5	383
371	Materials and Devices toward Fully Solution Processable Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2011 , 23, 326-340	9.6	368
370	Terthiophene-based D-A polymer with an asymmetric arrangement of alkyl chains that enables efficient polymer solar cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14149-57	16.4	358
369	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

368	Development of new conjugated polymers with donor-pi-bridge-acceptor side chains for high performance solar cells. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13886-7	16.4	310
367	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
366	High-efficiency polymer solar cells via the incorporation of an amino-functionalized conjugated metallopolymer as a cathode interlayer. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15326-9	16.4	301
365	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
364	High-efficiency, environment-friendly electroluminescent polymers with stable high work function metal as a cathode: green- and yellow-emitting conjugated polyfluorene polyelectrolytes and their neutral precursors. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9845-53	16.4	284
363	Domain Purity, Miscibility, and Molecular Orientation at Donor/Acceptor Interfaces in High Performance Organic Solar Cells: Paths to Further Improvement. <i>Advanced Energy Materials</i> , 2013 , 3, 864-872	21.8	256
362	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
361	All-solution processed polymer light-emitting diode displays. <i>Nature Communications</i> , 2013 , 4, 1971	17.4	240
360	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
359	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
358	Multi-Length-Scale Morphologies Driven by Mixed Additives in Porphyrin-Based Organic Photovoltaics. <i>Advanced Materials</i> , 2016 , 28, 4727-33	24	219
357	High-efficiency all-polymer solar cells based on a pair of crystalline low-bandgap polymers. <i>Advanced Materials</i> , 2014 , 26, 7224-30	24	218
356	Origin of the enhanced open-circuit voltage in polymer solar cells via interfacial modification using conjugated polyelectrolytes. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2617		214
355	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
354	Optical and electrical effects of gold nanoparticles in the active layer of polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1206-1211		203
353	Enhanced photovoltaic performance by modulating surface composition in bulk heterojunction polymer solar cells based on PBDTTT-C-T/PC71 BM. <i>Advanced Materials</i> , 2014 , 26, 4043-9	24	198
352	A Simple and Effective Way of Achieving Highly Efficient and Thermally Stable Bulk-Heterojunction Polymer Solar Cells Using Amorphous Fullerene Derivatives as Electron Acceptor. <i>Chemistry of Materials</i> , 2009 , 21, 2598-2600	9.6	185
351	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

350	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
349	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
348	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
347	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
346	Conjugated Fluorene and Silole Copolymers: Synthesis, Characterization, Electronic Transition, Light Emission, Photovoltaic Cell, and Field Effect Hole Mobility. <i>Macromolecules</i> , 2005 , 38, 2253-2260	5.5	158
345	Regioregular narrow-bandgap-conjugated polymers for plastic electronics. <i>Nature Communications</i> , 2017 , 8, 14047	17.4	157
344	Interface design for high-efficiency non-fullerene polymer solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 1784-1791	35.4	149
343	Crosslinkable hole-transporting materials for solution processed polymer light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4495		147
342	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
341	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
340	Highly efficient inverted polymer solar cells based on a cross-linkable water-/alcohol-soluble conjugated polymer interlayer. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10429-35	9.5	144
339	Toward green solvent processable photovoltaic materials for polymer solar cells: the role of highly polar pendant groups in charge carrier transport and photovoltaic behavior. <i>Energy and Environmental Science</i> , 2013 , 6, 3022	35.4	142
338	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
337	Water/alcohol soluble conjugated polymers for the interface engineering of highly efficient polymer light-emitting diodes and polymer solar cells. <i>Chemical Communications</i> , 2015 , 51, 5572-85	5.8	140
336	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
335	High-Performance Nonfullerene Polymer Solar Cells based on Imide-Functionalized Wide-Bandgap Polymers. <i>Advanced Materials</i> , 2017 , 29, 1606396	24	135
334	Dibenzothiophene Dioxide Based Conjugated Microporous Polymers for Visible-Light-Driven Hydrogen Production. <i>ACS Catalysis</i> , 2018 , 8, 8590-8596	13.1	133
333	Effect of Fluorine Content in Thienothiophene-Benzodithiophene Copolymers on the Morphology and Performance of Polymer Solar Cells. <i>Chemistry of Materials</i> , 2014 , 26, 3009-3017	9.6	128

332	Plasmonic Electrically Functionalized TiO ₂ for High-Performance Organic Solar Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 4255-4261	15.6	124
331	Synthesis of Quinoxaline-Based Donor-Acceptor Narrow-Band-Gap Polymers and Their Cyclized Derivatives for Bulk-Heterojunction Polymer Solar Cell Applications. <i>Macromolecules</i> , 2011 , 44, 894-901	5.5	123
330	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
329	A Difluorobenzoxadiazole Building Block for Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 1868-73	24	118
328	Creation of Bifunctional Materials: Improve Electron-Transporting Ability of Light Emitters Based on AIE-Active 2,3,4,5-Tetraphenylsiloles. <i>Advanced Functional Materials</i> , 2014 , 24, 3621-3630	15.6	118
327	A series of new medium-bandgap conjugated polymers based on naphtho[1,2-c:5,6-c']bis(2-octyl-[1,2,3]triazole) for high-performance polymer solar cells. <i>Advanced Materials</i> , 2013 , 25, 3683-8	24	118
326	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
325	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
324	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
323	Conjugated zwitterionic polyelectrolyte-based interface modification materials for high performance polymer optoelectronic devices. <i>Chemical Science</i> , 2013 , 4, 1298	9.4	108
322	Highly Efficient Electron Injection from Indium Tin Oxide/Cross-Linkable Amino-Functionalized Polyfluorene Interface in Inverted Organic Light Emitting Devices. <i>Chemistry of Materials</i> , 2011 , 23, 4870-4876	9.6	106
321	Heat-Insulating Multifunctional Semitransparent Polymer Solar Cells. <i>Joule</i> , 2018 , 2, 1816-1826	27.8	105
320	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
319	Conjugated zwitterionic polyelectrolytes and their neutral precursor as electron injection layer for high-performance polymer light-emitting diodes. <i>Advanced Materials</i> , 2011 , 23, 1665-9	24	102
318	Highly Efficient Inverted Polymer Solar Cells Based on an Alcohol Soluble Fullerene Derivative Interfacial Modification Material. <i>Chemistry of Materials</i> , 2012 , 24, 1682-1689	9.6	100
317	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
316	High-Performance Polymer Solar Cells with Electrostatic Layer-by-Layer Self-Assembled Conjugated Polyelectrolytes as the Cathode Interlayer. <i>Advanced Materials</i> , 2015 , 27, 3607-13	24	99
315	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

314	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
313	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
312	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
311	Amino N-Oxide Functionalized Conjugated Polymers and their Amino-Functionalized Precursors: New Cathode Interlayers for High-Performance Optoelectronic Devices. <i>Advanced Functional Materials</i> , 2012 , 22, 2846-2854	15.6	97
310	Surpassing the 10% efficiency milestone for 1-cm all-polymer solar cells. <i>Nature Communications</i> , 2019 , 10, 4100	17.4	96
309	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
308	Efficient non-fullerene polymer solar cells enabled by tetrahedron-shaped core based 3D-structure small-molecular electron acceptors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13632-13636	13	92
307	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
306	Polymer Solar Cells with a Low-Temperature-Annealed Sol-Gel-Derived MoO _x Film as a Hole Extraction Layer. <i>Advanced Energy Materials</i> , 2012 , 2, 523-527	21.8	90
305	Printed Nonfullerene Organic Solar Cells with the Highest Efficiency of 9.5%. <i>Advanced Energy Materials</i> , 2018 , 8, 1701942	21.8	81
304	New fullerene design enables efficient passivation of surface traps in high performance p-i-n heterojunction perovskite solar cells. <i>Nano Energy</i> , 2016 , 26, 7-15	17.1	80
303	Selective Hole and Electron Transport in Efficient Quaternary Blend Organic Solar Cells. <i>Joule</i> , 2020 , 4, 1790-1805	27.8	79
302	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
301	11.2% All-Polymer Tandem Solar Cells with Simultaneously Improved Efficiency and Stability. <i>Advanced Materials</i> , 2018 , 30, e1803166	24	78
300	Ambient Processable and Stable All-Polymer Organic Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1806747	15.6	77
299	Solution processed thick film organic solar cells. <i>Polymer Chemistry</i> , 2015 , 6, 8081-8098	4.9	76
298	High-Performance Inverted Organic Photovoltaics with Over 1- μ m Thick Active Layers. <i>Advanced Energy Materials</i> , 2014 , 4, 1400378	21.8	76
297	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

296	Synthesis of novel triphenylamine-based conjugated polyelectrolytes and their application as hole-transport layers in polymeric light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2006 , 16, 2387		73
295	Reducing Voltage Losses in the A-DA?D-A Acceptor-Based Organic Solar Cells. <i>Chem</i> , 2020 , 6, 2147-2161	16.2	73
294	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
293	High Efficiency CdS/CdSe Quantum Dot Sensitized Solar Cells with Two ZnSe Layers. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34482-34489	9.5	71
292	Advanced functional polymer materials. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1803-1915	7.8	70
291	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
290	Conjugated Polymers with Oligoethylene Glycol Side Chains for Improved Photocatalytic Hydrogen Evolution. <i>IScience</i> , 2019 , 13, 33-42	6.1	67
289	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
288	Metallohalide perovskite/polymer composite film for hybrid planar heterojunction solar cells. <i>RSC Advances</i> , 2015 , 5, 775-783	3.7	64
287	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
286	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
285	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
284	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
283	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
282	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
281	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
280	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
279	High-Performance Polymer Solar Cells Based on a Wide-Bandgap Polymer Containing Pyrrolo[3,4-]benzotriazole-5,7-dione with a Power Conversion Efficiency of 8.63. <i>Advanced Science</i> , 2016 , 3, 1600032	13.6	57

278	Morphology Evolution in High-Performance Polymer Solar Cells Processed from Nonhalogenated Solvent. <i>Advanced Science</i> , 2015 , 2, 1500095	13.6	56
277	Self-filtering narrowband high performance organic photodetectors enabled by manipulating localized Frenkel exciton dissociation. <i>Nature Communications</i> , 2020 , 11, 2871	17.4	55
276	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
275	Solution-Processed High-Detectivity Near-Infrared Polymer Photodetectors Fabricated by a Novel Low-Bandgap Semiconducting Polymer. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6537-6543	3.8	55
274	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
273	Energy-Level Alignment at the Organic/Electrode Interface in Organic Optoelectronic Devices. <i>Advanced Functional Materials</i> , 2016 , 26, 129-136	15.6	53
272	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
271	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
270	Highly efficient photocatalytic hydrogen evolution from water-soluble conjugated polyelectrolytes. <i>Nano Energy</i> , 2019 , 60, 775-783	17.1	51
269	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
268	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
267	Efficient and low-temperature processed perovskite solar cells based on a cross-linkable hybrid interlayer. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18483-18491	13	50
266	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
265	Chain Length Dependence of the Photovoltaic Properties of Monodisperse Donor-Acceptor Oligomers as Model Compounds of Polydisperse Low Band Gap Polymers. <i>Advanced Functional Materials</i> , 2014 , 24, 7538-7547	15.6	49
264	Supramolecular Phosphorescent Polymer Iridium Complexes for High-Efficiency Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2013 , 25, 1013-1019	9.6	49
263	Rational Anode Engineering Enables Progresses for Different Types of Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2100492	21.8	48
262	15.4% Efficiency all-polymer solar cells. <i>Science China Chemistry</i> , 2021 , 64, 408-412	7.9	48
261	Recent progress in organic solar cells (Part I material science). <i>Science China Chemistry</i> , 2022 , 65, 224-268	7.9	48

260	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
259	Water-Soluble Conjugated Molecule for Solar-Driven Hydrogen Evolution from Salt Water. <i>Advanced Functional Materials</i> , 2019 , 29, 1808156	15.6	46
258	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
257	Star-shaped electron acceptors containing a truxene core for non-fullerene solar cells. <i>Organic Electronics</i> , 2018 , 52, 42-50	3.5	45
256	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
255	Red-emitting DPSB-based conjugated polymer nanoparticles with high two-photon brightness for cell membrane imaging. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6754-63	9.5	44
254	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
253	Recent developments in carbon nitride based films for photoelectrochemical water splitting. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 485-503	5.8	44
252	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
251	Synergic Interface and Optical Engineering for High-Performance Semitransparent Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1701121	21.8	43
250	Energy-effectively printed all-polymer solar cells exceeding 8.61% efficiency. <i>Nano Energy</i> , 2018 , 46, 428-435	17.1	42
249	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
248	Toward High Efficiency Polymer Solar Cells: Influence of Local Chemical Environment and Morphology. <i>Advanced Energy Materials</i> , 2017 , 7, 1601081	21.8	40
247	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
246	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
245	High efficiency solution processed inverted white organic light emitting diodes with a cross-linkable amino-functionalized polyfluorene as a cathode interlayer. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3270-3277	7.1	39
244	Surpassing 13% Efficiency for Polythiophene Organic Solar Cells Processed from Nonhalogenated Solvent. <i>Advanced Materials</i> , 2021 , 33, e2008158	24	39
243	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

- 242 Ternary Solar Cells Based on Two Small Molecule Donors with Same Conjugated Backbone: The Role of Good Miscibility and Hole Relay Process. *ACS Applied Materials & Interfaces*, **2017**, 9, 29917-29923 38
- 241 A novel crosslinkable electron injection/transporting material for solution processed polymer light-emitting diodes. *Science China Chemistry*, **2011**, 54, 1745-1749 7.9 38
- 240 Self-Assembled Conjugated Polymer/Chitosan-graft-Oleic Acid Micelles for Fast Visible Detection of Aliphatic Biogenic Amines by "Turn-On" FRET. *ACS Applied Materials & Interfaces*, **2017**, 9, 22875-22884 37
- 239 Fluorescent Supramolecular Polymers Based on Pillar[5]arene for OLED Device Fabrication. *ACS Macro Letters*, **2017**, 6, 647-651 6.6 36
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- 237 Dark Current Reduction Strategy via a Layer-By-Layer Solution Process for a High-Performance All-Polymer Photodetector. *ACS Applied Materials & Interfaces*, **2019**, 11, 8350-8356 9.5 36
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87	Semitransparent Organic Solar Cells with Efficiency Surpassing 15%. <i>Advanced Energy Materials</i> , 2020 , 10, 1904532	11.8	10
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61	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
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57	Cyanovinylenes-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
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55	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
54	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
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15	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
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