

Yongfang Li

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507
papers

46,063
citations

99
h-index

203
g-index

521
ext. papers

52,424
ext. citations

11.9
avg, IF

8.2
L-index

#	Paper	IF	Citations
507	Single-Junction Organic Solar Cell with over 15% Efficiency Using Fused-Ring Acceptor with Electron-Deficient Core. <i>Joule</i> , 2019 , 3, 1140-1151	27.8	2595
506	An electron acceptor challenging fullerenes for efficient polymer solar cells. <i>Advanced Materials</i> , 2015 , 27, 1170-4	24	2522
505	Molecular design of photovoltaic materials for polymer solar cells: toward suitable electronic energy levels and broad absorption. <i>Accounts of Chemical Research</i> , 2012 , 45, 723-33	24.3	2378
504	Small molecule semiconductors for high-efficiency organic photovoltaics. <i>Chemical Society Reviews</i> , 2012 , 41, 4245-72	58.5	1465
503	Indene-C(60) bisadduct: a new acceptor for high-performance polymer solar cells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1377-82	16.4	1072
502	A high-mobility electron-transport polymer with broad absorption and its use in field-effect transistors and all-polymer solar cells. <i>Journal of the American Chemical Society</i> , 2007 , 129, 7246-7	16.4	1023
501	Bright, multicoloured light-emitting diodes based on quantum dots. <i>Nature Photonics</i> , 2007 , 1, 717-722	33.9	942
500	6.5% Efficiency of polymer solar cells based on poly(3-hexylthiophene) and indene-C(60) bisadduct by device optimization. <i>Advanced Materials</i> , 2010 , 22, 4355-8	24	840
499	11.4% Efficiency non-fullerene polymer solar cells with trialkylsilyl substituted 2D-conjugated polymer as donor. <i>Nature Communications</i> , 2016 , 7, 13651	17.4	822
498	Electrochemical properties of luminescent polymers and polymer light-emitting electrochemical cells. <i>Synthetic Metals</i> , 1999 , 99, 243-248	3.6	764
497	Side-Chain Isomerization on an n-type Organic Semiconductor ITIC Acceptor Makes 11.77% High Efficiency Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15011-15018	16.4	747
496	Non-Fullerene Polymer Solar Cells Based on Alkylthio and Fluorine Substituted 2D-Conjugated Polymers Reach 9.5% Efficiency. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4657-64	16.4	663
495	All-Polymer Solar Cells Based on Absorption-Complementary Polymer Donor and Acceptor with High Power Conversion Efficiency of 8.27%. <i>Advanced Materials</i> , 2016 , 28, 1884-90	24	604
494	Perylene diimides: a thickness-insensitive cathode interlayer for high performance polymer solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 1966	35.4	560
493	High-performance fullerene-free polymer solar cells with 6.31% efficiency. <i>Energy and Environmental Science</i> , 2015 , 8, 610-616	35.4	534
492	Controlled Synthesis and Optical Properties of Colloidal Ternary Chalcogenide CuInS ₂ Nanocrystals. <i>Chemistry of Materials</i> , 2008 , 20, 6434-6443	9.6	479
491	Improvement of open-circuit voltage and photovoltaic properties of 2D-conjugated polymers by alkylthio substitution. <i>Energy and Environmental Science</i> , 2014 , 7, 2276-2284	35.4	460

490	A low cost and high performance polymer donor material for polymer solar cells. <i>Nature Communications</i> , 2018 , 9, 743	17.4	459
489	Synthesis and electroluminescence of novel copolymers containing crown ether spacers. <i>Journal of Materials Chemistry</i> , 2003 , 13, 800-806		451
488	High-efficiency robust perovskite solar cells on ultrathin flexible substrates. <i>Nature Communications</i> , 2016 , 7, 10214	17.4	444
487	Multifunctional Fullerene Derivative for Interface Engineering in Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15540-7	16.4	433
486	Highly Emissive and Color-Tunable CuInS ₂ -Based Colloidal Semiconductor Nanocrystals: Off-Stoichiometry Effects and Improved Electroluminescence Performance. <i>Advanced Functional Materials</i> , 2012 , 22, 2081-2088	15.6	390
485	Flexible and Semitransparent Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1701791	21.8	374
484	High efficiency polymer solar cells based on poly(3-hexylthiophene)/indene-C70 bisadduct with solvent additive. <i>Energy and Environmental Science</i> , 2012 , 5, 7943	35.4	364
483	Mapping Polymer Donors toward High-Efficiency Fullerene Free Organic Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1604155	24	335
482	Constructing a Strongly Absorbing Low-Bandgap Polymer Acceptor for High-Performance All-Polymer Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13503-13507	16.4	320
481	Side-chain engineering of high-efficiency conjugated polymer photovoltaic materials. <i>Science China Chemistry</i> , 2015 , 58, 192-209	7.9	304
480	Synergistic effect of fluorination on both donor and acceptor materials for high performance non-fullerene polymer solar cells with 13.5% efficiency. <i>Science China Chemistry</i> , 2018 , 61, 531-537	7.9	302
479	Precise Control of Crystal Growth for Highly Efficient CsPbI ₂ Br Perovskite Solar Cells. <i>Joule</i> , 2019 , 3, 191-204	27.8	296
478	Combination of indene-C60 bis-adduct and cross-linked fullerene interlayer leading to highly efficient inverted polymer solar cells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17381-3	16.4	294
477	Improving the ordering and photovoltaic properties by extending π -conjugated area of electron-donating units in polymers with D-A structure. <i>Advanced Materials</i> , 2012 , 24, 3383-9	24	289
476	High-Yield Synthesis and Electrochemical and Photovoltaic Properties of Indene-C70 Bisadduct. <i>Advanced Functional Materials</i> , 2010 , 20, 3383-3389	15.6	272
475	9.73% Efficiency Nonfullerene All Organic Small Molecule Solar Cells with Absorption-Complementary Donor and Acceptor. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5085-5094	16.4	270
474	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
473	Efficient ternary blend polymer solar cells with indene-C60 bisadduct as an electron-cascade acceptor. <i>Energy and Environmental Science</i> , 2014 , 7, 2005	35.4	250

472	A near-infrared non-fullerene electron acceptor for high performance polymer solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 1610-1620	35.4	238
471	Cathode engineering with perylene-diimide interlayer enabling over 17% efficiency single-junction organic solar cells. <i>Nature Communications</i> , 2020 , 11, 2726	17.4	236
470	Polymer Doping for High-Efficiency Perovskite Solar Cells with Improved Moisture Stability. <i>Advanced Energy Materials</i> , 2018 , 8, 1701757	21.8	233
469	Fine-Tuning of Molecular Packing and Energy Level through Methyl Substitution Enabling Excellent Small Molecule Acceptors for Nonfullerene Polymer Solar Cells with Efficiency up to 12.54. <i>Advanced Materials</i> , 2018 , 30, 1706124	24	232
468	Solution-processable metal oxides/chelates as electrode buffer layers for efficient and stable polymer solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 1059-1091	35.4	228
467	High Efficiency Polymer Solar Cells with Efficient Hole Transfer at Zero Highest Occupied Molecular Orbital Offset between Methylated Polymer Donor and Brominated Acceptor. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1465-1474	16.4	228
466	High-Efficiency Nonfullerene Polymer Solar Cells with Medium Bandgap Polymer Donor and Narrow Bandgap Organic Semiconductor Acceptor. <i>Advanced Materials</i> , 2016 , 28, 8288-8295	24	224
465	Fused Benzothiadiazole: A Building Block for n-Type Organic Acceptor to Achieve High-Performance Organic Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1807577	24	214
464	High-Performance As-Cast Nonfullerene Polymer Solar Cells with Thicker Active Layer and Large Area Exceeding 11% Power Conversion Efficiency. <i>Advanced Materials</i> , 2018 , 30, 1704546	24	210
463	Interface Engineering of Perovskite Hybrid Solar Cells with Solution-Processed PeryleneDiimide Heterojunctions toward High Performance. <i>Chemistry of Materials</i> , 2015 , 27, 227-234	9.6	208
462	Tuning the electron-deficient core of a non-fullerene acceptor to achieve over 17% efficiency in a single-junction organic solar cell. <i>Energy and Environmental Science</i> , 2020 , 13, 2459-2466	35.4	199
461	A Solution-Processable Small Molecule Based on Benzodithiophene and Diketopyrrolopyrrole for High-Performance Organic Solar Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 1166-1170	21.8	195
460	Mechanically Robust All-Polymer Solar Cells from Narrow Band Gap Acceptors with Hetero-Bridging Atoms. <i>Joule</i> , 2020 , 4, 658-672	27.8	189
459	Preparation of gold, platinum, palladium and silver nanoparticles by the reduction of their salts with a weak reductant potassium bitartrate. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1069-1075		188
458	Synthesis and Photovoltaic Properties of DA Copolymers Based on Alkyl-Substituted Indacenodithiophene Donor Unit. <i>Chemistry of Materials</i> , 2011 , 23, 4264-4270	9.6	184
457	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
456	Side Chain Engineering on Medium Bandgap Copolymers to Suppress Triplet Formation for High-Efficiency Polymer Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1703344	24	182
455	Energy-Down-Shift CsPbCl ₃ :Mn Quantum Dots for Boosting the Efficiency and Stability of Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017 , 2, 1479-1486	20.1	178

454	Organic Solar Cell Materials toward Commercialization. <i>Small</i> , 2018 , 14, e1801793	11	177
453	High-Performance Organic Solar Cells Based on a Small Molecule with Alkylthio-Thienyl-Conjugated Side Chains without Extra Treatments. <i>Advanced Materials</i> , 2015 , 27, 7469-75	24	174
452	Overcoming the Interface Losses in Planar Heterojunction Perovskite-Based Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 5112-20	24	167
451	All-Small-Molecule Nonfullerene Organic Solar Cells with High Fill Factor and High Efficiency over 10%. <i>Chemistry of Materials</i> , 2017 , 29, 7543-7553	9.6	164
450	Tailored Phase Conversion under Conjugated Polymer Enables Thermally Stable Perovskite Solar Cells with Efficiency Exceeding 21. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17255-17262	16.4	162
449	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
448	Copolymers of perylene diimide with dithienothiophene and dithienopyrrole as electron-transport materials for all-polymer solar cells and field-effect transistors. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5794		158
447	Improving the efficiency of solution processable organic photovoltaic devices by a star-shaped molecular geometry. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4085		155
446	Non-fullerene polymer solar cells based on a selenophene-containing fused-ring acceptor with photovoltaic performance of 8.6%. <i>Energy and Environmental Science</i> , 2016 , 9, 3429-3435	35.4	154
445	PBDTTTZ: A Broad Band Gap Conjugated Polymer with High Photovoltaic Performance in Polymer Solar Cells. <i>Macromolecules</i> , 2011 , 44, 4035-4037	5.5	154
444	High-performance conjugated polymer donor materials for polymer solar cells with narrow-bandgap nonfullerene acceptors. <i>Energy and Environmental Science</i> , 2019 , 12, 3225-3246	35.4	154
443	Simplified synthetic routes for low cost and high photovoltaic performance n-type organic semiconductor acceptors. <i>Nature Communications</i> , 2019 , 10, 519	17.4	153
442	A Solution-Processable Electron Acceptor Based on Dibenzosilole and Diketopyrrolopyrrole for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 724-728	21.8	153
441	High-performance polymer solar cells based on a 2D-conjugated polymer with an alkylthio side-chain. <i>Energy and Environmental Science</i> , 2016 , 9, 885-891	35.4	150
440	Simultaneously Achieved High Open-Circuit Voltage and Efficient Charge Generation by Fine-Tuning Charge-Transfer Driving Force in Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1704507	15.6	147
439	High performance polymer solar cells with as-prepared zirconium acetylacetonate film as cathode buffer layer. <i>Scientific Reports</i> , 2014 , 4, 4691	4.9	144
438	A universal layer-by-layer solution-processing approach for efficient non-fullerene organic solar cells. <i>Energy and Environmental Science</i> , 2019 , 12, 384-395	35.4	143
437	A Universal Interface Layer Based on an Amine-Functionalized Fullerene Derivative with Dual Functionality for Efficient Solution Processed Organic and Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1401692	21.8	141

436	Replacing Alkoxy Groups with Alkylthienyl Groups: A Feasible Approach To Improve the Properties of Photovoltaic Polymers. <i>Angewandte Chemie</i> , 2011 , 123, 9871-9876	3.6	137
435	Fullerene-bisadduct acceptors for polymer solar cells. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 2316-28	4.5	136
434	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
433	Polymerized Small-Molecule Acceptors for High-Performance All-Polymer Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4422-4433	16.4	133
432	Reconfiguration of interfacial energy band structure for high-performance inverted structure perovskite solar cells. <i>Nature Communications</i> , 2019 , 10, 4593	17.4	130
431	High-Efficiency All-Small-Molecule Organic Solar Cells Based on an Organic Molecule Donor with Alkylsilyl-Thienyl Conjugated Side Chains. <i>Advanced Materials</i> , 2018 , 30, e1706361	24	130
430	Fullerene Derivatives for the Applications as Acceptor and Cathode Buffer Layer Materials for Organic and Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1601251	21.8	126
429	High-Performance Colorful Semitransparent Polymer Solar Cells with Ultrathin Hybrid-Metal Electrodes and Fine-Tuned Dielectric Mirrors. <i>Advanced Functional Materials</i> , 2017 , 27, 1605908	15.6	124
428	Polymer Light-Emitting Electrochemical Cells for High-Efficiency Low-Voltage Electroluminescent Devices. <i>Journal of Display Technology</i> , 2007 , 3, 211-224		123
427	Highly Efficient Semitransparent Organic Solar Cells with Color Rendering Index Approaching 100. <i>Advanced Materials</i> , 2019 , 31, e1807159	24	122
426	A Strategy to Simplify the Preparation Process of Perovskite Solar Cells by Co-deposition of a Hole-Conductor and a Perovskite Layer. <i>Advanced Materials</i> , 2016 , 28, 9648-9654	24	122
425	Efficient all-polymer solar cells based on blend of tris(thienylenevinylene)-substituted polythiophene and poly[perylene diimide-alt-bis(dithienothiophene)]. <i>Applied Physics Letters</i> , 2008 , 93, 073309	3.4	120
424	Controlled synthesis of CdS nanorods and hexagonal nanocrystals. <i>Journal of Materials Chemistry</i> , 2003 , 13, 2641		120
423	Asymmetric Acceptors with Fluorine and Chlorine Substitution for Organic Solar Cells toward 16.83% Efficiency. <i>Advanced Functional Materials</i> , 2020 , 30, 2000456	15.6	117
422	Highly Flexible and Efficient All-Polymer Solar Cells with High-Viscosity Processing Polymer Additive toward Potential of Stretchable Devices. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13277-13282	16.4	117
421	11.2% Efficiency all-polymer solar cells with high open-circuit voltage. <i>Science China Chemistry</i> , 2019 , 62, 845-850	7.9	114
420	A Solution Processable D-A-D Molecule based on Thiazolothiazole for High Performance Organic Solar Cells. <i>Advanced Energy Materials</i> , 2012 , 2, 63-67	21.8	114
419	Achieving Fast Charge Separation and Low Nonradiative Recombination Loss by Rational Fluorination for High-Efficiency Polymer Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1905480	24	113

4 ¹⁸	Energy Level and Molecular Structure Engineering of Conjugated Donor-Acceptor Copolymers for Photovoltaic Applications. <i>Macromolecules</i> , 2009 , 42, 4491-4499	5.5	113
4 ¹⁷	A Twisted Dimeric Perylene Diimide Electron Acceptor for Efficient Organic Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400420	21.8	112
4 ¹⁶	Efficient and stable polymer solar cells with solution-processed molybdenum oxide interfacial layer. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 657-664	13	109
4 ¹⁵	Synthesis and Characterization of a Copolymer Based on Thiazolothiazole and Dithienosilole for Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 557-560	21.8	108
4 ¹⁴	New Strategy for Two-Step Sequential Deposition: Incorporation of Hydrophilic Fullerene in Second Precursor for High-Performance p-i-n Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1703054	21.8	107
4 ¹³	Side-Chain Impact on Molecular Orientation of Organic Semiconductor Acceptors: High Performance Nonfullerene Polymer Solar Cells with Thick Active Layer over 400 nm. <i>Advanced Energy Materials</i> , 2018 , 8, 1800856	21.8	104
4 ¹²	Flexible silver grid/PEDOT:PSS hybrid electrodes for large area inverted polymer solar cells. <i>Nano Energy</i> , 2014 , 10, 259-267	17.1	103
4 ¹¹	Advancements in all-solid-state hybrid solar cells based on organometal halide perovskites. <i>Materials Horizons</i> , 2015 , 2, 378-405	14.4	102
4 ¹⁰	Highly Efficient All-Small-Molecule Organic Solar Cells with Appropriate Active Layer Morphology by Side Chain Engineering of Donor Molecules and Thermal Annealing. <i>Advanced Materials</i> , 2020 , 32, e1908373	24	100
4 ⁰⁹	Exploring High-Performance n-Type Thermoelectric Composites Using Amino-Substituted Rylene Dimides and Carbon Nanotubes. <i>ACS Nano</i> , 2017 , 11, 5746-5752	16.7	99
4 ⁰⁸	Dye-Incorporated Polynaphthalenediimide Acceptor for Additive-Free High-Performance All-Polymer Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4580-4584	16.4	99
4 ⁰⁷	Thieno[3,2-b]pyrrolo-Fused Pentacyclic Benzotriazole-Based Acceptor for Efficient Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31985-31992	9.5	99
4 ⁰⁶	Highly Efficient and Thermally Stable Polymer Solar Cells with Dihydronaphthyl-Based [70]Fullerene Bisadduct Derivative as the Acceptor. <i>Advanced Functional Materials</i> , 2012 , 22, 2187-2193	15.6	99
4 ⁰⁵	Low bandgap π -conjugated copolymers based on fused thiophenes and benzothiadiazole: Synthesis and structure-property relationship study. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 5498-5508	2.5	97
4 ⁰⁴	Binaphthyl-Containing Green- and Red-Emitting Molecules for Solution-Processable Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2008 , 18, 3299-3306	15.6	97
4 ⁰³	New generation perovskite solar cells with solution-processed amino-substituted perylene diimide derivative as electron-transport layer. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8724-8733	13	96
4 ⁰²	Effects of Fullerene Bisadduct Regioisomers on Photovoltaic Performance. <i>Advanced Functional Materials</i> , 2014 , 24, 158-163	15.6	95
4 ⁰¹	Achieving over 10% efficiency in a new acceptor ITTC and its blends with hexafluoroquinoxaline based polymers. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11286-11293	13	94

400	High-Performance Non-Fullerene Polymer Solar Cells Based on Fluorine Substituted Wide Bandgap Copolymers Without Extra Treatments. <i>Solar Rrl</i> , 2017 , 1, 1700020	7.1	94
399	Solution-processable n-doped graphene-containing cathode interfacial materials for high-performance organic solar cells. <i>Energy and Environmental Science</i> , 2019 , 12, 3400-3411	35.4	91
398	Unraveling Sunlight by Transparent Organic Semiconductors toward Photovoltaic and Photosynthesis. <i>ACS Nano</i> , 2019 , 13, 1071-1077	16.7	89
397	High Efficiency Ternary Nonfullerene Polymer Solar Cells with Two Polymer Donors and an Organic Semiconductor Acceptor. <i>Advanced Energy Materials</i> , 2017 , 7, 1602215	21.8	86
396	Combining Energy Transfer and Optimized Morphology for Highly Efficient Ternary Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1602552	21.8	85
395	Copolymers from benzodithiophene and benzotriazole: synthesis and photovoltaic applications. <i>Polymer Chemistry</i> , 2010 , 1, 1441	4.9	85
394	Effect of Alkylsilyl Side-Chain Structure on Photovoltaic Properties of Conjugated Polymer Donors. <i>Advanced Energy Materials</i> , 2018 , 8, 1702324	21.8	85
393	Small-Molecule Solar Cells with Fill Factors up to 0.75 via a Layer-by-Layer Solution Process. <i>Advanced Energy Materials</i> , 2014 , 4, 1300626	21.8	84
392	Synthesis and Photovoltaic Properties of a Series of Narrow Bandgap Organic Semiconductor Acceptors with Their Absorption Edge Reaching 900 nm. <i>Chemistry of Materials</i> , 2017 , 29, 10130-10138	9.6	83
391	A Fused Ring Electron Acceptor with Decacyclic Core Enables over 13.5% Efficiency for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1802050	21.8	83
390	Evaluation of Electron Donor Materials for Solution-Processed Organic Solar Cells via a Novel Figure of Merit. <i>Advanced Energy Materials</i> , 2017 , 7, 1700465	21.8	82
389	Efficient polymer solar cells based on poly(3-hexylthiophene) and indene-C ₆₀ bisadduct fabricated with non-halogenated solvents. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8190-8	9.5	82
388	A Synergetic Effect of Molecular Weight and Fluorine in All-Polymer Solar Cells with Enhanced Performance. <i>Advanced Functional Materials</i> , 2017 , 27, 1603564	15.6	82
387	Targeted Therapy for Interfacial Engineering Toward Stable and Efficient Perovskite Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1903691	24	81
386	Efficient Polymer Solar Cells Based on Poly(3-hexylthiophene):Indene-C ₇₀ Bisadduct with a MoO ₃ Buffer Layer. <i>Advanced Functional Materials</i> , 2012 , 22, 585-590	15.6	81
385	Modulating the Molecular Packing and Nanophase Blending via a Random Terpolymerization Strategy toward 11% Efficiency Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1701125	21.8	81
384	Synthesis and Photovoltaic Properties of a Donor-Acceptor Double-Cable Polythiophene with High Content of C ₆₀ Pendant. <i>Macromolecules</i> , 2007 , 40, 1868-1873	5.5	80
383	A bipolar small molecule based on indacenodithiophene and diketopyrrolopyrrole for solution processed organic solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 778-784	13	79

382	Integrating Ultrathin Bulk-Heterojunction Organic Semiconductor Intermediary for High-Performance Low-Bandgap Perovskite Solar Cells with Low Energy Loss. <i>Advanced Functional Materials</i> , 2018 , 28, 1804427	15.6	79
381	A review: crystal growth for high-performance all-inorganic perovskite solar cells. <i>Energy and Environmental Science</i> , 2020 , 13, 1971-1996	35.4	78
380	A New Polythiophene Derivative for High Efficiency Polymer Solar Cells with PCE over 9%. <i>Advanced Energy Materials</i> , 2016 , 6, 1600430	21.8	78
379	Efficiency Enhancement of Polymer Solar Cells Based on Poly(3-hexylthiophene)/Indene-C70 Bisadduct via Methylthiophene Additive. <i>Advanced Energy Materials</i> , 2011 , 1, 1058-1061	21.8	77
378	Improvement of Photoluminescent and Photovoltaic Properties of Poly(thienylene vinylene) by Carboxylate Substitution. <i>Macromolecules</i> , 2009 , 42, 4377-4380	5.5	76
377	Low-Bandgap Non-fullerene Acceptors Enabling High-Performance Organic Solar Cells. <i>ACS Energy Letters</i> , 2021 , 6, 598-608	20.1	75
376	Diluting concentrated solution: a general, simple and effective approach to enhance efficiency of polymer solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 2357-2364	35.4	73
375	A simple strategy to the side chain functionalization on the quinoxaline unit for efficient polymer solar cells. <i>Chemical Communications</i> , 2016 , 52, 6881-4	5.8	73
374	ITO-free photovoltaic cell utilizing a high-resolution silver grid current collecting layer. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 113, 85-89	6.4	71
373	[6,6]-Phenyl-C61-Butyric Acid Dimethylamino Ester as a Cathode Buffer Layer for High-Performance Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 1569-1574	21.8	70
372	Interfacial Dipole in Organic and Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18281-18292	16.4	70
371	A Quinoxaline-Based D-A Copolymer Donor Achieving 17.62% Efficiency of Organic Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2100474	24	70
370	A unified description of non-radiative voltage losses in organic solar cells. <i>Nature Energy</i> , 2021 , 6, 799-806	6.3	70
369	Interface Design to Improve the Performance and Stability of Solution-Processed Small-Molecule Conventional Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400816	21.8	68
368	Solution-Processed Rhenium Oxide: A Versatile Anode Buffer Layer for High Performance Polymer Solar Cells with Enhanced Light Harvest. <i>Advanced Energy Materials</i> , 2014 , 4, 1300884	21.8	68
367	Effect of side-chain end groups on the optical, electrochemical, and photovoltaic properties of side-chain conjugated polythiophenes. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 4916-4922	2.5	68
366	A furan-bridged D-A copolymer with deep HOMO level: synthesis and application in polymer solar cells. <i>Polymer Chemistry</i> , 2011 , 2, 2872	4.9	67
365	Novel two-dimensional donor-acceptor conjugated polymers containing quinoxaline units: Synthesis, characterization, and photovoltaic properties. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 4038-4049	2.5	67

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217	High-Efficiency Polymer Solar Cells Based on Poly(3-pentylthiophene) with Indene-C70 Bisadduct as an Acceptor. <i>Advanced Energy Materials</i> , 2012 , 2, 966-969	21.8	22
216	One-Source Strategy Boosting Dopant-Free Hole Transporting Layers for Highly Efficient and Stable CsPbI ₂ Br Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2010696	15.6	22
215	End-Capping Effect of Quinoxalino[2,3-b?]porphyrin on Donor/Acceptor Copolymer and Improved Performance of Polymer Solar Cells. <i>Macromolecules</i> , 2016 , 49, 3723-3732	5.5	22
214	A Novel Strategy for Scalable High-Efficiency Planar Perovskite Solar Cells with New Precursors and Cation Displacement Approach. <i>Advanced Materials</i> , 2018 , 30, e1804454	24	22
213	High-efficiency organic solar cells based on a small-molecule donor and a low-bandgap polymer acceptor with strong absorption. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9613-9622	13	21
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208	Ambient stable large-area flexible organic solar cells using silver grid hybrid with vapor phase polymerized poly(3,4-Ethylenedioxythiophene) cathode. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 143, 354-359	6.4	20
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205	Quantitative analysis of the size effect of room temperature nanoimprinted P3HT nanopillar arrays on the photovoltaic performance. <i>Nanoscale</i> , 2015 , 7, 11024-32	7.7	20
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203	Fine-tuning HOMO energy levels between PM6 and PBDB-T polymer donors via ternary copolymerization. <i>Science China Chemistry</i> , 2020 , 63, 1256-1261	7.9	20

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200	Synergistic Effects of Side-Chain Engineering and Fluorination on Small Molecule Acceptors to Simultaneously Broaden Spectral Response and Minimize Voltage Loss for 13.8% Efficiency Organic Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900169	7.1	19
199	Hole extraction layer utilizing well defined graphene oxide with multiple functionalities for high-performance bulk heterojunction solar cells. <i>Organic Electronics</i> , 2014 , 15, 2868-2875	3.5	19
198	A conjugated polymer based on 5,5'-bibenzo[c][1,2,5]thiadiazole for high-performance solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3432		19
197	Synthesis and photovoltaic properties of copolymers based on bithiophene and bithiazole. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 2746-2754	2.5	19
196	Solution-Processed Tin Oxide-PEDOT:PSS Interconnecting Layers for Efficient Inverted and Conventional Tandem Polymer Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1800366	7.1	18
195	Copolymers from naphtho[2,3-c]thiophene-4,9-dione derivatives and benzodithiophene: synthesis and photovoltaic applications. <i>RSC Advances</i> , 2012 , 2, 7439	3.7	18
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187	Cyclometalated Pt complex-based random terpolymers for efficient polymer solar cells. <i>Polymer Chemistry</i> , 2017 , 8, 4729-4737	4.9	17
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185	Red-emission organic light-emitting diodes based on solution-processable molecules with triphenylamine core and benzothiadiazole-thiophene arms. <i>Science China Chemistry</i> , 2011 , 54, 695-698	7.9	17

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172	Flexible and Air-Stable Near-Infrared Sensors Based on Solution-Processed Inorganic/Organic Hybrid Phototransistors. <i>Advanced Functional Materials</i> , 2019, 29, 2105887	15.6	16
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