Ergang Wang

List of Publications by Year
in descending order

183 papers	10,175 citations	30070 54 h-index	38395 95 g-index
184 all docs	184 docs citations	184 times ranked	7908 citing authors

#	Article	IF	Citations
1	High-performance polymer heterojunction solar cells of a polysilafluorene derivative. Applied Physics Letters, 2008, 92, 033307.	3.3	446
2	An Easily Synthesized Blue Polymer for Highâ€Performance Polymer Solar Cells. Advanced Materials, 2010, 22, 5240-5244.	21.0	435
3	High Performance All-Polymer Solar Cells by Synergistic Effects of Fine-Tuned Crystallinity and Solvent Annealing. Journal of the American Chemical Society, 2016, 138, 10935-10944.	13.7	401
4	An Easily Accessible Isoindigo-Based Polymer for High-Performance Polymer Solar Cells. Journal of the American Chemical Society, 2011, 133, 14244-14247.	13.7	363
5	25th Anniversary Article: Isoindigoâ€Based Polymers and Small Molecules for Bulk Heterojunction Solar Cells and Field Effect Transistors. Advanced Materials, 2014, 26, 1801-1826.	21.0	330
6	Mechanically Robust All-Polymer Solar Cells from Narrow Band Gap Acceptors with Hetero-Bridging Atoms. Joule, 2020, 4, 658-672.	24.0	279
7	9.0% power conversion efficiency from ternary all-polymer solar cells. Energy and Environmental Science, 2017, 10, 2212-2221.	30.8	200
8	Solution-Processed Zinc Oxide Thin Film as a Buffer Layer for Polymer Solar Cells with an Inverted Device Structure. Journal of Physical Chemistry C, 2010, 114, 6849-6853.	3.1	198
9	Recent Advances in nâ€Type Polymers for Allâ€Polymer Solar Cells. Advanced Materials, 2019, 31, e1807275.	21.0	196
10	Quantification of Quantum Efficiency and Energy Losses in Low Bandgap Polymer:Fullerene Solar Cells with High Openâ€Circuit Voltage. Advanced Functional Materials, 2012, 22, 3480-3490.	14.9	190
11	Adding a Third Component with Reduced Miscibility and Higher LUMO Level Enables Efficient Ternary Organic Solar Cells. ACS Energy Letters, 2020, 5, 2711-2720.	17.4	188
12	Over 14% efficiency all-polymer solar cells enabled by a low bandgap polymer acceptor with low energy loss and efficient charge separation. Energy and Environmental Science, 2020, 13, 5017-5027.	30.8	170
13	Synthesis and characterization of benzodithiopheneâ€“isoindigo polymers for solar cells. Journal of Materials Chemistry, 2012, 22, 2306-2314.	6.7	156
14	Flexible Carbon Nanotubeâ˜'Polymer Composite Films with High Conductivity and Superhydrophobicity Made by Solution Process. Nano Letters, 2008, 8, 4454-4458.	9.1	154
15	Donor Polymers Containing Benzothiadiazole and Four Thiophene Rings in Their Repeating Units with Improved Photovoltaic Performance. Macromolecules, 2009, 42, 4410-4415.	4.8	150
16	An isoindigo-based low band gap polymer for efficient polymer solar cells with high photo-voltage. Chemical Communications, 2011, 47, 4908.	4.1	134
17	Enhanced Photovoltaic Performance of Indacenodithiopheneâ€Quinoxaline Copolymers by Sideâ€Chain Modulation. Advanced Energy Materials, 2014, 4, 1400680.	19.5	134
18	Synthesis of Quinoxaline-Based Donorâ˜'Acceptor Narrow-Band-Gap Polymers and Their Cyclized Derivatives for Bulk-Heterojunction Polymer Solar Cell Applications. Macromolecules, 2011, 44, 894-901.	4.8	127

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19	Influences of Surface Roughness of ZnO Electron Transport Layer on the Photovoltaic Performance of Organic Inverted Solar Cells. Journal of Physical Chemistry C, 2012, 116, 24462-24468.	3.1	126
20	Influence of Molecular Weight on the Performance of Organic Solar Cells Based on a Fluorene Derivative. Advanced Functional Materials, 2010, 20, 2124-2131.	14.9	124
21	Conjugated Donorâ€"Acceptor Terpolymers Toward Highâ€Efficiency Polymer Solar Cells. Advanced Materials, 2019, 31, e1807019.	21.0	120
22	Side-Chain Architectures of 2,7-Carbazole and Quinoxaline-Based Polymers for Efficient Polymer Solar Cells. Macromolecules, 2011, 44, 2067-2073.	4.8	119
23	Fluorine substitution enhanced photovoltaic performance of a Dâ€"A1â€"Dâ€"A2 copolymer. Chemical Communications, 2013, 49, 9335.	4.1	116
24	Lowâ€Temperature Combustionâ€Synthesized Nickel Oxide Thin Films as Holeâ€Transport Interlayers for Solutionâ€Processed Optoelectronic Devices. Advanced Energy Materials, 2014, 4, 1301460.	19.5	110
25	Semiâ€Transparent Tandem Organic Solar Cells with 90% Internal Quantum Efficiency. Advanced Energy Materials, 2012, 2, 1467-1476.	19.5	109
26	Structureâ€"property relationships of oligothiopheneâ€"isoindigo polymers for efficient bulk-heterojunction solar cells. Energy and Environmental Science, 2014, 7, 361-369.	30.8	108
27	A Nonâ€Conjugated Polymer Acceptor for Efficient and Thermally Stable Allâ€Polymer Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 19835-19840.	13.8	105
28	High-performance all-polymer solar cells based on fluorinated naphthalene diimide acceptor polymers with fine-tuned crystallinity and enhanced dielectric constants. Nano Energy, 2018, 45, 368-379.	16.0	101
29	Over 18% ternary polymer solar cells enabled by a terpolymer as the third component. Nano Energy, 2022, 92, 106681.	16.0	97
30	Ternary organic solar cells with enhanced open circuit voltage. Nano Energy, 2017, 37, 24-31.	16.0	96
31	Poly(3,6-silafluorene-co-2,7-fluorene)-based high-efficiency and color-pure blue light-emitting polymers with extremely narrow band-width and high spectral stability. Journal of Materials Chemistry, 2006, 16, 4133.	6.7	95
32	Highâ€Performance and Stable Allâ€Polymer Solar Cells Using Donor and Acceptor Polymers with Complementary Absorption. Advanced Energy Materials, 2017, 7, 1602722.	19.5	90
33	Polymer Acceptors with Flexible Spacers Afford Efficient and Mechanically Robust Allâ€Polymer Solar Cells. Advanced Materials, 2022, 34, e2107361.	21.0	89
34	High-efficiency red and green light-emitting polymers based on a novel wide bandgap poly(2,7-silafluorene). Journal of Materials Chemistry, 2008, 18, 797.	6.7	86
35	Conformational Disorder Enhances Solubility and Photovoltaic Performance of a Thiopheneâ€"Quinoxaline Copolymer. Advanced Energy Materials, 2013, 3, 806-814.	19.5	86
36	Open circuit voltage and efficiency in ternary organic photovoltaic blends. Energy and Environmental Science, 2016, 9, 257-266.	30.8	85

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37	Allâ€polymer solar cells with over 16% efficiency and enhanced stability enabled by compatible solvent and polymer additives. Aggregate, 2022, 3, e58.	9.9	85
38	Low Band Gap Polymer Solar Cells With Minimal Voltage Losses. Advanced Energy Materials, 2016, 6, 1600148.	19.5	84
39	Dâ€"A₁â€"Dâ€"A₂ Copolymers with Extended Donor Segments for Efficient Polymer Solar Cells. Macromolecules, 2015, 48, 1009-1016.	4.8	82
40	8.0% Efficient Allâ€Polymer Solar Cells with High Photovoltage of 1.1 V and Internal Quantum Efficiency near Unity. Advanced Energy Materials, 2018, 8, 1700908.	19.5	81
41	Small Band Gap Polymers Synthesized via a Modified Nitration of 4,7-Dibromo-2,1,3-benzothiadiazole. Organic Letters, 2010, 12, 4470-4473.	4.6	79
42	Molecular Doping and Trap Filling in Organic Semiconductor Hostâ€"Guest Systems. Journal of Physical Chemistry C, 2017, 121, 7767-7775.	3.1	73
43	Conjugated polymers based on benzodithiophene and fluorinated quinoxaline for bulk heterojunction solar cells: thiophene versus thieno[3,2-b]thiophene as ï€-conjugated spacers. Polymer Chemistry, 2014, 5, 2083.	3.9	68
44	An alternating Dâ€"A1â€"Dâ€"A2 copolymer containing two electron-deficient moieties for efficient polymer solar cells. Journal of Materials Chemistry A, 2013, 1, 11141.	10.3	66
45	A Facile Method to Enhance Photovoltaic Performance of Benzodithiopheneâ€Isoindigo Polymers by Inserting Bithiophene Spacer. Advanced Energy Materials, 2014, 4, 1301455.	19.5	66
46	Fluorinated Photovoltaic Materials for Highâ€Performance Organic Solar Cells. Chemistry - an Asian Journal, 2019, 14, 3085-3095.	3.3	66
47	Fullerene Nucleating Agents: A Route Towards Thermally Stable Photovoltaic Blends. Advanced Energy Materials, 2014, 4, 1301437.	19.5	65
48	Revealing the Position Effect of an Alkylthio Side Chain in Phenyl-Substituted Benzodithiophene-Based Donor Polymers on the Photovoltaic Performance of Non-Fullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 33173-33178.	8.0	65
49	Ultrafast Terahertz Photoconductivity of Bulk Heterojunction Materials Reveals High Carrier Mobility up to Nanosecond Time Scale. Journal of the American Chemical Society, 2012, 134, 11836-11839.	13.7	64
50	High Seebeck Coefficient and Power Factor in nâ€Type Organic Thermoelectrics. Advanced Electronic Materials, 2018, 4, 1700501.	5.1	64
51	Nucleation-limited fullerene crystallisation in a polymerâ€"fullerene bulk-heterojunction blend. Journal of Materials Chemistry A, 2013, 1, 7174.	10.3	60
52	Influence of Incorporating Different Electron-Rich Thiophene-Based Units on the Photovoltaic Properties of Isoindigo-Based Conjugated Polymers: An Experimental and DFT Study. Macromolecules, 2013, 46, 8488-8499.	4.8	58
53	Functionalized reduced graphene oxide with tunable band gap and good solubility in organic solvents. Carbon, 2019, 146, 491-502.	10.3	58
54	Inverted all-polymer solar cells based on a quinoxalineâ€"thiophene/naphthalene-diimide polymer blend improved by annealing. Journal of Materials Chemistry A, 2016, 4, 3835-3843.	10.3	57

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55	Low bandgap polymers synthesized by FeCl3 oxidative polymerization. Solar Energy Materials and Solar Cells, 2010, 94, 1275-1281.	6.2	56
56	Ternary Organic Solar Cells with Minimum Voltage Losses. Advanced Energy Materials, 2017, 7, 1700390.	19.5	55
57	High-photovoltage all-polymer solar cells based on a diketopyrrolopyrroleâ€“isoindigo acceptor polymer. Journal of Materials Chemistry A, 2017, 5, 11693-11700.	10.3	54
58	High-performance all-polymer solar cells enabled by a novel low bandgap non-fully conjugated polymer acceptor. Science China Chemistry, 2021, 64, 1380-1388.	8.2	51
59	Environmentâ€friendly synthesis of long chain semiaromatic polyamides with high heat resistance. Journal of Applied Polymer Science, 2009, 114, 2036-2042.	2.6	50
60	Lateral Phase Separation Gradients in Spinâ€Coated Thin Films of Highâ€Performance Polymer:Fullerene Photovoltaic Blends. Advanced Functional Materials, 2011, 21, 3169-3175.	14.9	49
61	Intense and Stable Near-Infrared Emission from Light-Emitting Electrochemical Cells Comprising a Metal-Free Indacenodithieno[3,2-<i>b</i>]thiophene-Based Copolymer as the Single Emitter. Chemistry of Materials, 2017, 29, 7750-7759.	6.7	49
62	Efficient Nearâ€Infrared Electroluminescence at 840 nm with â€œMetalâ€Freeâ€•Smallâ€Molecule:Polymer Blends. Advanced Materials, 2018, 30, e1706584.	21.0	49
63	Sub-glass transition annealing enhances polymer solar cell performance. Journal of Materials Chemistry A, 2014, 2, 6146-6152.	10.3	48
64	Triazolobenzothiadiazoleâ€Based Copolymers for Polymer Lightâ€Emitting Diodes: Pure Nearâ€Infrared Emission via Optimized Energy and Charge Transfer. Advanced Optical Materials, 2016, 4, 2068-2076.	7.3	48
65	Carboxylate substituted pyrazine: A simple and low-cost building block for novel wide bandgap polymer donor enables 15.3% efficiency in organic solar cells. Nano Energy, 2021, 82, 105679.	16.0	48
66	Fullerene mixtures enhance the thermal stability of a non-crystalline polymer solar cell blend. Applied Physics Letters, 2014, 104, .	3.3	47
67	Vertical and lateral morphology effects on solar cell performance for a thiopheneâ€“quinoxaline copolymer:PC₇₀BM blend. Journal of Materials Chemistry A, 2015, 3, 6970-6979.	10.3	46
68	Highâ€efficiency blue lightâ€emitting polymers based on 3,6â€silafluorene and 2,7â€silafluorene. Journal of Polymer Science Part A, 2007, 45, 4941-4949.	2.3	45
69	Enhance performance of organic solar cells based on an isoindigo-based copolymer by balancing absorption and miscibility of electron acceptor. Applied Physics Letters, 2011, 99, 143302.	3.3	45
70	Effects of side chain isomerism on the physical and photovoltaic properties of indacenodithieno[3,2-<i>b</i>]thiopheneâ€“quinoxaline copolymers: toward a side chain design for enhanced photovoltaic performance. Journal of Materials Chemistry A, 2014, 2, 18988-18997.	10.3	45
71	Energy-effectively printed all-polymer solar cells exceeding 8.61% efficiency. Nano Energy, 2018, 46, 428-435.	16.0	45
72	10.13% Efficiency Allâ€Polymer Solar Cells Enabled by Improving the Optical Absorption of Polymer Acceptors. Solar Rrl, 2020, 4, 2000142.	5.8	45

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73	High Performance All-Polymer Photodetector Comprising a Donorâ€“Acceptorâ€“Acceptor Structured Indacenodithiopheneâ€“Bithieno[3,4-<i>c</i>]Pyrroletetrone Copolymer. ACS Macro Letters, 2018, 7, 395-400.	4.8	43
74	Predicting thermal stability of organic solar cells through an easy and fast capacitance measurement. Solar Energy Materials and Solar Cells, 2015, 141, 240-247.	6.2	42
75	High-Performance Organic Photodetectors from a High-Bandgap Indacenodithiophene-Based Ï€-Conjugated Donorâ€“Acceptor Polymer. ACS Applied Materials & Interfaces, 2018, 10, 12937-12946.	8.0	42
76	Polymer acceptors based on Y6 derivatives for all-polymer solar cells. Science Bulletin, 2021, 66, 1950-1953.	9.0	42
77	From spin coating to doctor blading: A systematic study on the photovoltaic performance of an isoindigo-based polymer. Solar Energy Materials and Solar Cells, 2015, 132, 252-259.	6.2	41
78	Blue-to-transmissive electrochromic switching of solution processable donorâ€“acceptor polymers. Organic Electronics, 2011, 12, 1406-1413.	2.6	40
79	Manipulating backbone structure with various conjugated spacers to enhance photovoltaic performance of Dâ€“A-type two-dimensional copolymers. Organic Electronics, 2014, 15, 2876-2884.	2.6	40
80	Dimerization of 9,10-anthraquinone-2,7-Disulfonic acid (AQDS). Electrochimica Acta, 2019, 317, 478-485.	5.2	40
81	Enhanced efficiency of polymer solar cells by improving molecular aggregation and broadening the absorption spectra. Dyes and Pigments, 2019, 166, 42-48.	3.7	39
82	Ultrahigh Surfaceâ€Enhanced Raman Scattering of Graphene from Au/Graphene/Au Sandwiched Structures with Subnanometer Gap. Advanced Optical Materials, 2016, 4, 2021-2027.	7.3	38
83	Structural tuning of quinoxaline-benzodithiophene copolymers via alkyl side chain manipulation: synthesis, characterization and photovoltaic properties. Journal of Materials Chemistry A, 2014, 2, 11162-11170.	10.3	37
84	High-performance ternary polymer solar cells from a structurally similar polymer alloy. Journal of Materials Chemistry A, 2017, 5, 12400-12406.	10.3	37
85	High Bandgap (1.9 eV) Polymer with Over 8% Efficiency in Bulk Heterojunction Solar Cells. Advanced Electronic Materials, 2016, 2, 1600084.	5.1	36
86	Study of ITO-free roll-to-roll compatible polymer solar cells using the one-step doctor blading technique. Journal of Materials Chemistry A, 2017, 5, 4093-4102.	10.3	36
87	Using Two Compatible Donor Polymers Boosts the Efficiency of Ternary Organic Solar Cells to 17.7%. Chemistry of Materials, 2021, 33, 7254-7262.	6.7	35
88	2D Ï€-conjugated benzo[1,2-b:4,5-bâ€²]dithiophene- and quinoxaline-based copolymers for photovoltaic applications. RSC Advances, 2013, 3, 24543.	3.6	34
89	Regular Energetics at Conjugated Electrolyte/Electrode Modifier for Organic Electronics and their Implications on Design Rules. Advanced Materials Interfaces, 2015, 2, 1500204.	3.7	34
90	Star-Shaped Diketopyrrolopyrroleâ€“Zinc Porphyrin that Delivers 900 nm Emission in Light-Emitting Electrochemical Cells. Chemistry of Materials, 2019, 31, 9721-9728.	6.7	34

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91	Electron and Hole Contributions to the Terahertz Photoconductivity of a Conjugated Polymer:Fullerene Blend Identified. Journal of Physical Chemistry Letters, 2012, 3, 2442-2446.	4.6	32
92	Highâ€Performance Hole Transport and Quasiâ€Balanced Ambipolar OFETs Based on Dâ€“Aâ€“A Thienoâ€benzoâ€isoindigo Polymers. Advanced Electronic Materials, 2016, 2, 1500313.	5.1	32
93	Probing the Relationship between Molecular Structures, Thermal Transitions, and Morphology in Polymer Semiconductors Using a Woven Glass-Mesh-Based DMTA Technique. Chemistry of Materials, 2019, 31, 6740-6749.	6.7	32
94	Molecular orbital energy level modulation through incorporation of selenium and fluorine into conjugated polymers for organic photovoltaic cells. Journal of Materials Chemistry A, 2013, 1, 13422.	10.3	31
95	Highly Stable Indacenodithieno[3,2-<i>b</i>]thiophene-Based Donorâ€“Acceptor Copolymers for Hybrid Electrochromic and Energy Storage Applications. Macromolecules, 2020, 53, 11106-11119.	4.8	31
96	Pore-free bubbling delamination of chemical vapor deposited graphene from copper foils. Journal of Materials Chemistry C, 2015, 3, 8634-8641.	5.5	29
97	Light-harvesting capabilities of low band gap donorâ€“acceptor polymers. Physical Chemistry Chemical Physics, 2014, 16, 24853-24865.	2.8	28
98	Nonconjugated Terpolymer Acceptors with Two Different Fused-Ring Electron-Deficient Building Blocks for Efficient All-Polymer Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 6442-6449.	8.0	28
99	Computational Modeling of Isoindigo-Based Polymers Used in Organic Solar Cells. Journal of Physical Chemistry C, 2013, 117, 17940-17954.	3.1	27
100	Polymer solar cells spray coated with non-halogenated solvents. Solar Energy Materials and Solar Cells, 2017, 161, 52-61.	6.2	27
101	Low-bandgap nonfullerene acceptor based on thieno[3,2-b]indole core for highly efficient binary and ternary organic solar cells. Chemical Engineering Journal, 2022, 427, 131674.	12.7	27
102	One-Step Synthesis of Precursor Oligomers for Organic Photovoltaics: A Comparative Study between Polymers and Small Molecules. ACS Applied Materials & Interfaces, 2015, 7, 27106-27114.	8.0	25
103	Electrochemical Evaluation of a Napthalene Diimide Derivative for Potential Application in Aqueous Organic Redox Flow Batteries. Energy Technology, 2019, 7, 1900843.	3.8	25
104	Influence of backbone modification of difluoroquinoxaline-based copolymers on the interchain packing, blend morphology and photovoltaic properties of nonfullerene organic solar cells. Journal of Materials Chemistry C, 2019, 7, 1681-1689.	5.5	25
105	Stability study of quinoxaline and pyrido pyrazine based co-polymers for solar cell applications. Solar Energy Materials and Solar Cells, 2014, 130, 138-143.	6.2	24
106	Pyrrolo[3,4-g]quinoxaline-6,8-dione-based conjugated copolymers for bulk heterojunction solar cells with high photovoltages. Polymer Chemistry, 2015, 6, 4624-4633.	3.9	24
107	17.25% high efficiency ternary solar cells with increased open-circuit voltage using a high HOMO level small molecule guest donor in a PM6:Y6 blend. Journal of Materials Chemistry A, 2021, 9, 20493-20501.	10.3	24
108	On the complex refractive index of polymer:fullerene photovoltaic blends. Thin Solid Films, 2014, 571, 371-376.	1.8	23

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109	A dual ternary system for highly efficient ITO-free inverted polymer solar cells. Journal of Materials Chemistry A, 2015, 3, 18365-18371.	10.3	23
110	Incorporation of Designed Donorâ€“Acceptorâ€“Donor Segments in a Host Polymer for Strong Near-Infrared Emission from a Large-Area Light-Emitting Electrochemical Cell. ACS Applied Energy Materials, 2018, 1, 1753-1761.	5.1	23
111	Alcohol-Soluble Conjugated Polymers as Cathode Interlayers for All-Polymer Solar Cells. ACS Applied Energy Materials, 2018, 1, 2176-2182.	5.1	23
112	Combining Benzotriazole and Benzodithiophene Host Units in Hostâ€“Guest Polymers for Efficient and Stable Nearâ€Infrared Emission from Lightâ€Emitting Electrochemical Cells. Advanced Optical Materials, 2019, 7, 1900280.	7.3	23
113	Synthesis and Electronic Properties of Diketopyrrolopyrrole-Based Polymers with and without Ring-Fusion. Macromolecules, 2021, 54, 970-980.	4.8	23
114	The trade-off between electrochromic stability and contrast of a thiopheneâ€"Quinoxaline copolymer. Electrochimica Acta, 2017, 253, 530-535.	5.2	21
115	Photo-degradation in air of the active layer components in a thiopheneâ€“quinoxaline copolymer:fullerene solar cell. Physical Chemistry Chemical Physics, 2016, 18, 11132-11138.	2.8	20
116	Nearâ€Infrared Emitting and Proâ€Angiogenic Electrospun Conjugated Polymer Scaffold for Optical Biomaterial Tracking. Advanced Functional Materials, 2015, 25, 4274-4281.	14.9	19
117	On the Design of Hostâ€“Guest Lightâ€Emitting Electrochemical Cells: Should the Guest be Physically Blended or Chemically Incorporated into the Host for Efficient Emission?. Advanced Optical Materials, 2019, 7, 1900451.	7.3	19
118	Weak Makes It Powerful: The Role of Cognate Small Molecules as an Alloy Donor in 2D/1A Ternary Fullerene Solar Cells for Finely Tuned Hierarchical Morphology in Thick Active Layers. Small Methods, 2020, 4, 1900766.	8.6	19
119	Solvent Effect Leading to High Performance of Bulk Heterojunction Polymer Solar Cells by Novel Polysilafluorene Derivatives. Journal of Physical Chemistry C, 2011, 115, 2314-2319.	3.1	18
120	Synthesis and characterization of benzodithiophene and benzotriazole-based polymers for photovoltaic applications. Beilstein Journal of Organic Chemistry, 2016, 12, 1629-1637.	2.2	18
121	Effect of fluorine atoms on optoelectronic, aggregation and dielectric constants of 2,1,3-benzothiadiazole-based alternating conjugated polymers. Dyes and Pigments, 2021, 193, 109486.	3.7	18
122	Charge Carrier Dynamics of Polymer:Fullerene Blends: From Geminate to Nonâ€Geminate Recombination. Advanced Energy Materials, 2014, 4, 1301706.	19.5	17
123	Temperature-Dependent Optical Properties of Flexible Donorâ€“Acceptor Polymers. Journal of Physical Chemistry C, 2015, 119, 6453-6463.	3.1	17
124	Improving Performance of Allâ€Polymer Solar Cells Through Backbone Engineering of Both Donors and Acceptors. Solar Rrl, 2018, 2, 1800247.	5.8	17
125	Impact of P3HT materials properties and layer architecture on OPV device stability. Solar Energy Materials and Solar Cells, 2019, 202, 110151.	6.2	17
126	Facile Monitoring of Fullerene Crystallization in Polymer Solar Cell Blends by UVâ€“vis Spectroscopy. Macromolecular Chemistry and Physics, 2014, 215, 530-535.	2.2	16

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127	A Nonâ€Conjugated Polymer Acceptor for Efficient and Thermally Stable Allâ€Polymer Solar Cells. Angewandte Chemie, 2020, 132, 20007-20012.	2.0	16
128	Broad spectrum absorption and low-voltage electrochromic operation from indacenodithieno[3,2-<i>b</i>]thiophene-based copolymers. Polymer Chemistry, 2019, 10, 2004-2014.	3.9	15
129	13.4â€‰% Efficiency from Allâ€Smallâ€Molecule Organic Solar Cells Based on a Crystalline Donor with Chlorine and Trialkylsilyl Substitutions. ChemSusChem, 2021, 14, 3535-3543.	6.8	15
130	Mapping fullerene crystallization in a photovoltaic blend: an electron tomography study. Nanoscale, 2015, 7, 8451-8456.	5.6	14
131	Defining donor and acceptor strength in conjugated copolymers. Molecular Physics, 2017, 115, 485-496.	1.7	14
132	Diketopyrrolopyrrole-based terpolymers with tunable broad band absorption for fullerene and fullerene-free polymer solar cells. Journal of Materials Chemistry C, 2019, 7, 3375-3384.	5.5	14
133	Axisymmetric and Asymmetric Naphthalene-Bisthienothiophene Based Nonfullerene Acceptors: On Constitutional Isomerization and Photovoltaic Performance. ACS Applied Energy Materials, 2020, 3, 5734-5744.	5.1	14
134	Nonfullerene acceptors from thieno[3,2-b]thiophene-fused naphthalene donor core with six-member-ring connection for efficient organic solar cells. Dyes and Pigments, 2021, 185, 108892.	3.7	14
135	Modulating the nanoscale morphology on carboxylate-pyrazine containing terpolymer toward 17.8% efficiency organic solar cells with enhanced thermal stability. Chemical Engineering Journal, 2022, 446, 137424.	12.7	14
136	Highly Ordered Organic Ferroelectric DIPAB-Patterned Thin Films. Langmuir, 2017, 33, 12859-12864.	3.5	13
137	Real-time Path Planning Strategy for UAV Based on Improved Particle Swarm Optimization. Journal of Computers, 2014, 9, .	0.4	13
138	Rational design of Dâ€“A₁â€“Dâ€“A₂ conjugated polymers with superior spectral coverage. Physical Chemistry Chemical Physics, 2015, 17, 26677-26689.	2.8	12
139	A comparative study of the photovoltaic performances of terpolymers and ternary systems. RSC Advances, 2017, 7, 17959-17967.	3.6	12
140	Tracing charge transfer states in polymer:fullerene bulk-heterojunctions. Journal of Materials Chemistry A, 2013, 1, 7321.	10.3	11
141	Low-gap zinc porphyrin as an efficient dopant for photomultiplication type photodetectors. Chemical Communications, 2020, 56, 12769-12772.	4.1	11
142	The role of connectivity in significant bandgap narrowing for fused-pyrene based non-fullerene acceptors toward high-efficiency organic solar cells. Journal of Materials Chemistry A, 2020, 8, 5995-6003.	10.3	11
143	Nearâ€Infrared Emission by Tuned Aggregation of a Porphyrin Compound in a Hostâ€“Guest Lightâ€Emitting Electrochemical Cell. Advanced Optical Materials, 2021, 9, 2001701.	7.3	11
144	Efficient infiltration of low molecular weight polymer in nanoporous TiO2. Chemical Physics Letters, 2011, 502, 225-230.	2.6	10

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145	Improved performance and life time of inverted organic photovoltaics by using polymer interfacial materials. Solar Energy Materials and Solar Cells, 2015, 133, 99-104.	6.2	10
146	Open-Circuit Voltage Modulations on All-Polymer Solar Cells by Side Chain Engineering on 4,8-Di(thiophen-2-yl)benzo[1,2-<i>b</i>:4,5-<i>b</i>â€²]dithiophene-Based Donor Polymers. ACS Applied Energy Materials, 2018, 1, 2918-2926.	5.1	10
147	Structural engineering of pyrrolo[3,4-f]benzotriazole-5,7(2H,6H)-dione-based polymers for non-fullerene organic solar cells with an efficiency over 12%. Journal of Materials Chemistry A, 2019, 7, 19522-19530.	10.3	10
148	Mixed solvents for reproducible photovoltaic bulk heterojunctions. Journal of Photonics for Energy, 2011, 1, 011122.	1.3	9
149	Lateral size reduction of graphene oxide preserving its electronic properties and chemical functionality. RSC Advances, 2020, 10, 29432-29440.	3.6	9
150	Highâ€Throughput Screening of Bladeâ€Coated Polymer:Polymer Solar Cells: Solvent Determines Achievable Performance. ChemSusChem, 2022, 15, .	6.8	9
151	Ladder-type high gap conjugated polymers based on indacenodithieno[3,2-b]thiophene and bithiazole for organic photovoltaics. Organic Electronics, 2019, 74, 211-217.	2.6	8
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