

Tao Wang

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.

162
papers

6,549
citations

42
h-index

75
g-index

168
ext. papers

7,958
ext. citations

10.8
avg, IF

6.32
L-index

#	Paper	IF	Citations
162	Revealing the microstructure-related light-induced degradation for all-polymer solar cells based on regioisomerized end-capping group acceptors. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 1246-1258	7.1	1
161	Solid-state cooling by elastocaloric polymer with uniform chain-lengths.. <i>Nature Communications</i> , 2022 , 13, 9	17.4	3
160	An asymmetry strategy to reduce excessive aggregation of brominated non-fullerene acceptors for enhanced efficiency of organic solar cells. <i>Organic Electronics</i> , 2022 , 100, 106357	3.5	1
159	Polymer/non-fullerene acceptor bulk heterojunction nanoparticles for efficient photocatalytic hydrogen production from water. <i>Polymer</i> , 2022 , 244, 124667	3.9	2
158	Baseplate Temperature-Dependent Vertical Composition Gradient in Pseudo-Bilayer Films for Printing Non-Fullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2102135	21.8	9
157	Reduced miscibility between highly compatible non-fullerene acceptor and donor enables efficient ternary organic solar cells. <i>Polymer</i> , 2021 , 236, 124322	3.9	3
156	Minimizing the Thickness of Ethoxylated Polyethylenimine to Produce Stable Low-Work Function Interface for Nonfullerene Organic Solar Cells. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000094	1.6	6
155	Asymmetric and Halogenated Fused-Ring Electron Acceptor for Efficient Organic Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2102189	15.6	16
154	Balancing the efficiency, stability, and cost potential for organic solar cells via a new figure of merit. <i>Joule</i> , 2021 , 5, 1209-1230	27.8	42
153	Stability Of Non-Fullerene Electron Acceptors and Their Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 2104552	15.6	12
152	High-Performance Ladder-Type Heteroheptacene-Based Nonfullerene Acceptors Enabled by Asymmetric Cores with Enhanced Noncovalent Intramolecular Interactions. <i>Angewandte Chemie</i> , 2021 , 133, 19463-19472	3.6	3
151	Heating induced aggregation in non-fullerene organic solar cells towards high performance. <i>Journal of Energy Chemistry</i> , 2021 , 54, 131-137	12	14
150	Temperature Induced Aggregation of Organic Semiconductors. <i>Chemistry - A European Journal</i> , 2021 , 27, 2908-2919	4.8	14
149	Facile fabrication of robust and healable superhydrophobic cotton fabric with flower-like Ni(OH) ₂ @ODA micro-nanoparticles. <i>Cellulose</i> , 2021 , 28, 581-592	5.5	3
148	Multifunctional Enhancement for Highly Stable and Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2005776	15.6	111
147	The Intrinsic Role of Molecular Mass and Polydispersity Index in High-Performance Non-Fullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2002709	21.8	22
146	Improving Photovoltaic Performance of Non-Fullerene Polymer Solar Cells Enables by Fine-Tuning Blend Microstructure via Binary Solvent Mixtures. <i>Advanced Functional Materials</i> , 2021 , 31, 2008767	15.6	13

145	Bilayer broadband antireflective coating to achieve planar heterojunction perovskite solar cells with 23.9% efficiency. <i>Science China Materials</i> , 2021 , 64, 789-797	7.1	4
144	Hydrothermally Treated TiO ₂ Nanorods as Electron Transport Layer in Planar Perovskite Solar Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2000238	1.6	3
143	A History and Perspective of Non-Fullerene Electron Acceptors for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2003570	21.8	141
142	High-performance all-small-molecule organic solar cells without interlayers. <i>Energy and Environmental Science</i> , 2021 , 14, 3174-3183	35.4	15
141	Highly Efficient and Stable All-Polymer Solar Cells Enabled by Near-Infrared Isomerized Polymer Acceptors. <i>Chemistry of Materials</i> , 2021 , 33, 761-773	9.6	15
140	Quasi-2D bromide perovskite nanocrystals with narrow phase distribution prepared using ternary organic cations for sky-blue light-emitting diodes. <i>Applied Physics Letters</i> , 2021 , 118, 083302	3.4	2
139	Simultaneously Enhanced Efficiency and Operational Stability of Nonfullerene Organic Solar Cells via Solid-Additive-Mediated Aggregation Control. <i>Small</i> , 2021 , 17, e2102558	11	13
138	Remove the water-induced traps toward improved performance in organic solar cells. <i>Science China Materials</i> , 2021 , 64, 2629-2644	7.1	7
137	High-Performance Ladder-Type Heteroheptacene-Based Nonfullerene Acceptors Enabled by Asymmetric Cores with Enhanced Noncovalent Intramolecular Interactions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19314-19323	16.4	15
136	Fine-Tuning Aggregation of Nonfullerene Acceptor Enables High-Efficiency Organic Solar Cells. <i>Small Structures</i> , 2021 , 2, 2100055	8.7	3
135	A conjugated donor-acceptor block copolymer enables over 11% efficiency for single-component polymer solar cells. <i>Joule</i> , 2021 , 5, 1800-1815	27.8	27
134	Efficient Hole Transfer via CsPbBr ₃ Quantum Dots Doping toward High-Performance Organic Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100499	7.1	1
133	Tuning of the Interconnecting Layer for Monolithic Perovskite/Organic Tandem Solar Cells with Record Efficiency Exceeding 21. <i>Nano Letters</i> , 2021 , 21, 7845-7854	11.5	8
132	Dopant-free polymeric hole transport materials for efficient CsPbI ₂ Br perovskite cells with a fill factor exceeding 84%. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8507-8514	7.1	12
131	Modulation of J-Aggregation of Nonfullerene Acceptors toward Near-Infrared Absorption and Enhanced Efficiency. <i>Macromolecules</i> , 2020 , 53, 3747-3755	5.5	24
130	Spectral Tuning of Efficient CsPbBr _x Cl _{3-x} Blue Light-Emitting Diodes via Halogen Exchange Triggered by Benzenesulfonates. <i>Chemistry of Materials</i> , 2020 , 32, 3211-3218	9.6	32
129	Simultaneous enhanced efficiency and thermal stability in organic solar cells from a polymer acceptor additive. <i>Nature Communications</i> , 2020 , 11, 1218	17.4	111
128	High-performance all-polymer solar cells with only 0.47 eV energy loss. <i>Science China Chemistry</i> , 2020 , 63, 1449-1460	7.9	39

127	Two similar near-infrared (IR) non-fullerene acceptors as near IR sensitizers for ternary solar cells. <i>Organic Electronics</i> , 2020 , 85, 105880	3.5	6
126	Fluorinated solid additives enable high efficiency non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4230-4238	13	30
125	Non-fullerene acceptor fibrils enable efficient ternary organic solar cells with 16.6% efficiency. <i>Science China Chemistry</i> , 2020 , 63, 1461-1468	7.9	25
124	Solution-Processed Centimeter-Scale Highly Aligned Organic Crystalline Arrays for High-Performance Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2020 , 32, e1908388	24	62
123	Achieving Eco-Compatible Organic Solar Cells with Efficiency >16.5% Based on an Iridium Complex-Incorporated Polymer Donor. <i>Solar Rrl</i> , 2020 , 4, 2000156	7.1	29
122	Aggregation of non-fullerene acceptors in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15607-15619	13	51
121	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
120	Organic Ligands Armored ZnO Enhances Efficiency and Stability of CsPbIBr Perovskite Solar Cells. <i>Advanced Science</i> , 2020 , 7, 2000421	13.6	22
119	Thiophene Terminated Fullerene Derivatives for Interfacial Modification toward High Efficiency MAPbI ₃ Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9824-9832	6.1	7
118	Recent progress and prospects of integrated perovskite/organic solar cells. <i>Applied Physics Reviews</i> , 2020 , 7, 031303	17.3	16
117	Constructing enhanced pseudocapacitive Li ⁺ intercalation via multiple ionically bonded interfaces toward advanced lithium storage. <i>Energy Storage Materials</i> , 2020 , 24, 138-146	19.4	16
116	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
115	Chlorinated Fullerene Dimers for Interfacial Engineering Toward Stable Planar Perovskite Solar Cells with 22.3% Efficiency. <i>Advanced Energy Materials</i> , 2020 , 10, 2000615	21.8	42
114	13.9% Efficiency Ternary Nonfullerene Organic Solar Cells Featuring Low-Structural Order. <i>ACS Energy Letters</i> , 2019 , 4, 2378-2385	20.1	42
113	Molecular Ordering and Performance of Ternary Nonfullerene Organic Solar Cells via Bar-Coating in Air with an Efficiency over 13. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35827-35834	9.5	14
112	Contrasting Effects of Organic Chloride Additives on Performance of Direct and Inverted Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37833-37841	9.5	10
111	Alkoxythiophene and alkylthiothiophene Bridges enhance the performance of ADBA electron acceptors. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 492-495	7.8	16
110	Bright perovskite light-emitting diodes with improved film morphology and reduced trap density via surface passivation using quaternary ammonium salts. <i>Organic Electronics</i> , 2019 , 67, 187-193	3.5	18

109	TDI/TiO Hybrid Networks for Superhydrophobic Coatings with Superior UV Durability and Cation Adsorption Functionality. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7488-7497	9.5	19
108	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
107	Spontaneous open-circuit voltage gain of fully fabricated organic solar cells caused by elimination of interfacial energy disorder. <i>Energy and Environmental Science</i> , 2019 , 12, 2518-2528	35.4	39
106	Influences of Non-fullerene Acceptor Fluorination on Three-Dimensional Morphology and Photovoltaic Properties of Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26194-26203	28.5	33
105	From fullerene acceptors to non-fullerene acceptors: prospects and challenges in the stability of organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23361-23377	13	105
104	Regulating the morphology of fluorinated non-fullerene acceptor and polymer donor via binary solvent mixture for high efficiency polymer solar cells. <i>Science China Chemistry</i> , 2019 , 62, 1221-1229	7.9	23
103	Trap passivation and efficiency improvement of perovskite solar cells by a guanidinium additive. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1357-1364	7.8	23
102	Correlating the electron-donating core structure with morphology and performance of carbon oxygen-bridged ladder-type non-fullerene acceptor based organic solar cells. <i>Nano Energy</i> , 2019 , 61, 318-326	17.1	32
101	Evolution of molecular aggregation in bar-coated non-fullerene organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1062-1070	7.8	19
100	Improved Performance of Perovskite Light-Emitting Diodes by Dual Passivation with an Ionic Additive. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3336-3342	6.1	13
99	Ligand-Exchange of Low-Temperature Synthesized CsPbBr ₃ Perovskite toward High-Efficiency Light-Emitting Diodes. <i>Small Methods</i> , 2019 , 3, 1800489	12.8	23
98	A review of non-fullerene polymer solar cells: from device physics to morphology control. <i>Reports on Progress in Physics</i> , 2019 , 82, 036601	14.4	127
97	An effective surface modification strategy with high reproducibility for simultaneously improving efficiency and stability of inverted MA-free perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21476-21487	13	9
96	Methylammonium-Mediated Crystallization of Cesium-Based 2D/3D Perovskites toward High-Efficiency Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43452-43459	9.5	6
95	Enhancing the efficiency of PTB7-Th:COi8DFIC-based ternary solar cells with versatile third components. <i>Applied Physics Reviews</i> , 2019 , 6, 041405	17.3	15
94	Mesoporous silica hybrids as an antireflective coating to enhance light harvesting and achieve over 16% efficiency of organic solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14962-14969	7.1	7
93	Morphology and efficiency enhancements of PTB7-Th:ITIC nonfullerene organic solar cells processed via solvent vapor annealing. <i>Journal of Energy Chemistry</i> , 2019 , 37, 148-156	12	30
92	Molecular Order Control of Non-fullerene Acceptors for High-Efficiency Polymer Solar Cells. <i>Joule</i> , 2019 , 3, 819-833	27.8	144

91	Carbon-Oxygen-Bridged Ladder-Type Building Blocks for Highly Efficient Nonfullerene Acceptors. <i>Advanced Materials</i> , 2019 , 31, e1804790	24	117
90	Solution-processed Graphene-MoS ₂ heterostructure for efficient hole extraction in organic solar cells. <i>Carbon</i> , 2019 , 142, 156-163	10.4	23
89	Molecular engineering of conjugated polymers for efficient hole transport and defect passivation in perovskite solar cells. <i>Nano Energy</i> , 2018 , 45, 28-36	17.1	174
88	Facile preparation of pristine graphene using urea/glycerol as efficient stripping agents. <i>Nano Research</i> , 2018 , 11, 820-830	10	18
87	Ionic Additive Engineering Toward High-Efficiency Perovskite Solar Cells with Reduced Grain Boundaries and Trap Density. <i>Advanced Functional Materials</i> , 2018 , 28, 1801985	15.6	101
86	Environmentally durable superhydrophobic surfaces with robust photocatalytic self-cleaning and self-healing properties prepared via versatile film deposition methods. <i>Journal of Colloid and Interface Science</i> , 2018 , 527, 107-116	9.3	52
85	Improved efficiency in fullerene and non-fullerene polymer solar cells having an interdigitated interface with the electron transport layer. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 1859-1865	7.8	6
84	Current Status of Outdoor Lifetime Testing of Organic Photovoltaics. <i>Advanced Science</i> , 2018 , 5, 1800434	3.6	59
83	Correlating Three-dimensional Morphology With Function in PBDB-T:IT-M Non-Fullerene Organic Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800114	7.1	39
82	The impacts of Pbl ₂ purity on the morphology and device performance of one-step spray-coated planar heterojunction perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 436-443	5.8	23
81	Contrasting Effects of Energy Transfer in Determining Efficiency Improvements in Ternary Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1704212	15.6	49
80	Retarding the Crystallization of a Nonfullerene Electron Acceptor for High-Performance Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 29, 1807662	15.6	33
79	Halogen-substituted fullerene derivatives for interface engineering of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21368-21378	13	26
78	Eliminating Light-Soaking Instability in Planar Heterojunction Perovskite Solar Cells by Interfacial Modifications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33144-33152	9.5	24
77	Restrained light-soaking and reduced hysteresis in perovskite solar cells employing a helical perylene diimide interfacial layer. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10379-10387	13	33
76	Correlating Nanoscale Morphology with Device Performance in Conventional and Inverted PffBT4T-2OD:PC71BM Polymer Solar Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3505-3512	6.1	7
75	Achieving over 11% power conversion efficiency in PffBT4T-2OD-based ternary polymer solar cells with enhanced open-circuit-voltage and suppressed charge recombination. <i>Nano Energy</i> , 2018 , 44, 155-163	17.1	77
74	Poly(9-vinylcarbazole) as a hole transport material for efficient and stable inverted planar heterojunction perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 163, 210-217	6.4	49

73	Conjugated-Polymer Blends for Organic Photovoltaics: Rational Control of Vertical Stratification for High Performance. <i>Advanced Materials</i> , 2017 , 29, 1601674	24	91
72	Eliminated hysteresis and stabilized power output over 20% in planar heterojunction perovskite solar cells by compositional and surface modifications to the low-temperature-processed TiO ₂ layer. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9402-9411	13	101
71	Comparative indoor and outdoor stability measurements of polymer based solar cells. <i>Scientific Reports</i> , 2017 , 7, 1305	4.9	25
70	Ladder-Type Dithienonaphthalene-Based Small-Molecule Acceptors for Efficient Nonfullerene Organic Solar Cells. <i>Chemistry of Materials</i> , 2017 , 29, 7942-7952	9.6	96
69	Versatile Device Architectures for High-Performing Light-Soaking-Free Inverted Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32678-32687	9.5	17
68	Conjugated Small Molecule for Efficient Hole Transport in High-Performance p-i-n Type Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2017 , 27, 1702613	15.6	109
67	Sodium bromide additive improved film morphology and performance in perovskite light-emitting diodes. <i>Applied Physics Letters</i> , 2017 , 111, 053301	3.4	13
66	Light-Soaking-Free Inverted Polymer Solar Cells with an Efficiency of 10.5% by Compositional and Surface Modifications to a Low-Temperature-Processed TiO Electron-Transport Layer. <i>Advanced Materials</i> , 2017 , 29, 1604044	24	60
65	Fabricating high performance conventional and inverted polymer solar cells by spray coating in air. <i>Vacuum</i> , 2017 , 139, 154-158	3.7	11
64	Efficient planar heterojunction perovskite solar cells with weak hysteresis fabricated via bar coating. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 159, 412-417	6.4	37
63	50-Fold EQE Improvement up to 6.27% of Solution-Processed All-Inorganic Perovskite CsPbBr QLEDs via Surface Ligand Density Control. <i>Advanced Materials</i> , 2017 , 29, 1603885	24	819
62	Self-suspended polyaniline containing self-dissolved lyotropic liquid crystal with electrical conductivity. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 3578-3582	2.5	4
61	PCDTBT based solar cells: one year of operation under real-world conditions. <i>Scientific Reports</i> , 2016 , 6, 21632	4.9	47
60	Thickness-dependent glass transition temperature and charge mobility in cross-linked polyfluorene thin films. <i>Physical Review E</i> , 2016 , 94, 052503	2.4	10
59	Surface and Interface Modified Thermal, Structural and Charge Transport Properties in Conjugated Polymer Thin Films. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600084	4.6	5
58	Recent progress and challenges of organometal halide perovskite solar cells. <i>Reports on Progress in Physics</i> , 2016 , 79, 026501	14.4	97
57	Dependence on material choice of degradation of organic solar cells following exposure to humid air. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 216-224	2.6	24
56	High efficiency arrays of polymer solar cells fabricated by spray-coating in air. <i>Progress in Photovoltaics: Research and Applications</i> , 2016 , 24, 275-282	6.8	25

55	. <i>Journal of Display Technology</i> , 2016 , 12, 583-588		9
54	A binary solvent system for improved liquid phase exfoliation of pristine graphene materials. <i>Carbon</i> , 2015 , 94, 405-411	10.4	28
53	Grain size dependence of degradation of aluminium/calcium cathodes in organic solar cells following exposure to humid air. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 140, 25-32	6.4	37
52	Organic photovoltaic devices with enhanced efficiency processed from non-halogenated binary solvent blends. <i>Organic Electronics</i> , 2015 , 21, 216-222	3.5	32
51	Vertical stratification and its impact on device performance in a polycarbazole based copolymer solar cells. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4007-4015	7.1	21
50	Co ₃ O ₄ /C/graphene nanocomposites as novel anode materials for high capacity lithium ion batteries. <i>RSC Advances</i> , 2015 , 5, 73677-73683	3.7	11
49	Impact of fluorine substitution upon the photovoltaic properties of benzothiadiazole-fluorene alternate copolymers. <i>RSC Advances</i> , 2015 , 5, 46386-46394	3.7	21
48	Triisopropylsilylacetylene-functionalised anthracene-alt-benzothiadiazole copolymers for application in bulk heterojunction solar cells. <i>RSC Advances</i> , 2015 , 5, 101607-101615	3.7	3
47	Polymer-based solar cells having an active area of 1.6 cm ² fabricated via spray coating. <i>APL Materials</i> , 2015 , 3, 126108	5.7	7
46	Organic photovoltaic devices incorporating a molybdenum oxide hole-extraction layer deposited by spray-coating from an ammonium molybdate tetrahydrate precursor. <i>Organic Electronics</i> , 2014 , 15, 692-700	3.5	23
45	A chemical sensor based on a photonic-crystal L3 nanocavity defined in a silicon-nitride membrane. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8700-8706	7.1	7
44	Morphology Development in Amorphous Polymer:Fullerene Photovoltaic Blend Films During Solution Casting. <i>Advanced Functional Materials</i> , 2014 , 24, 659-667	15.6	49
43	Bulk Heterojunction Morphology Control and Characterization 2014 , 317-366		2
42	Anthracene-based donor-acceptor low band gap polymers for application in solar cells. <i>Chemical Communications</i> , 2013 , 49, 2252-4	5.8	36
41	Deviations of the glass transition temperature in amorphous conjugated polymer thin films. <i>Physical Review E</i> , 2013 , 88, 022601	2.4	24
40	Correlating molecular morphology with optoelectronic function in solar cells based on low band-gap copolymer:fullerene blends. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7266	7.1	63
39	Fabricating High Performance, Donor-Acceptor Copolymer Solar Cells by Spray-Coating in Air. <i>Advanced Energy Materials</i> , 2013 , 3, 505-512	21.8	75
38	Air processed organic photovoltaic devices incorporating a MoO _x anode buffer layer. <i>Applied Physics Letters</i> , 2013 , 102, 183303	3.4	23

37	The role of dynamic measurements in correlating structure with optoelectronic properties in polymer : fullerene bulk-heterojunction solar cells. <i>Reports on Progress in Physics</i> , 2013 , 76, 022501	14.4	37
36	Instability of hydrophobic and viscoelastic polymer thin films in water at room temperature. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 415101	1.8	5
35	Photophysics and morphology of a polyfluorene donor-acceptor triblock copolymer for solar cells. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013 , 51, 1705-1718	2.6	5
34	Optimising the efficiency of carbazole co-polymer solar-cells by control over the metal cathode electrode. <i>Organic Electronics</i> , 2012 , 13, 1401-1408	3.5	26
33	Rationalizing Phase Transitions with Thermal Annealing Temperatures for P3HT:PCBM Organic Photovoltaic Devices. <i>Macromolecules</i> , 2012 , 45, 1499-1508	5.5	57
32	Competition between substrate-mediated π -stacking and surface-mediated T(g) depression in ultrathin conjugated polymer films. <i>European Physical Journal E</i> , 2012 , 35, 9807	1.5	25
31	Large deformation behavior and effective network chain density of swollen poly(N-isopropylacrylamide)-aponite nanocomposite hydrogels. <i>Soft Matter</i> , 2012 , 8, 774-783	3.6	82
30	Correlating Structure with Function in Thermally Annealed PCDTBT:PC70BM Photovoltaic Blends. <i>Advanced Functional Materials</i> , 2012 , 22, 1399-1408	15.6	123
29	Evolution of Structure, Optoelectronic Properties, and Device Performance of Polythiophene:Fullerene Solar Cells During Thermal Annealing. <i>Advanced Functional Materials</i> , 2011 , 21, 1383-1390	15.6	94
28	The Nanoscale Morphology of a PCDTBT:PCBM Photovoltaic Blend. <i>Advanced Energy Materials</i> , 2011 , 1, 499-504	21.8	95
27	A Phase Diagram of the P3HT:PCBM Organic Photovoltaic System: Implications for Device Processing and Performance. <i>Macromolecules</i> , 2011 , 44, 2908-2917	5.5	100
26	Cross-linked network development in compatibilized alkyd/acrylic hybrid latex films for the creation of hard coatings. <i>Langmuir</i> , 2010 , 26, 14323-33	4	20
25	The development of nanoscale morphology in polymer:fullerene photovoltaic blends during solvent casting. <i>Soft Matter</i> , 2010 , 6, 4128	3.6	115
24	Waterborne, semicrystalline, pressure-sensitive adhesives with temperature-responsiveness and optimum properties. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 443-51	9.5	27
23	Design and fabrication of colloidal polymer nanocomposites. <i>Advances in Colloid and Interface Science</i> , 2009 , 147-148, 319-32	14.3	76
22	Protein nanopatterning on self-organized poly(styrene-b-isoprene) thin film templates. <i>Langmuir</i> , 2009 , 25, 4526-34	4	44
21	Soft polymer and nano-clay supracolloidal particles in adhesives: synergistic effects on mechanical properties. <i>Soft Matter</i> , 2009 , 5, 3842	3.6	71
20	pH dependence of the properties of waterborne pressure-sensitive adhesives containing acrylic acid. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 631-9	9.5	48

19	Importance of Molecular Friction in a Soft Polymer Nanotube Nanocomposite. <i>Macromolecules</i> , 2008 , 41, 7656-7661	5.5	26
18	A Molecular Mechanism for Toughening and Strengthening Waterborne Nanocomposites. <i>Advanced Materials</i> , 2008 , 20, 90-94	24	31
17	In-Situ Reaction Influenced Polyamide 11 Crystallization in Polymer Blends. <i>Polymer-Plastics Technology and Engineering</i> , 2007 , 46, 893-899		0
16	An alternative approach to the modification of talc for the fabrication of polypropylene/talc composites. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 386-393	2.9	11
15	Synthesis of EVA-g-MAH and its compatibilization effect to PA11/PVC blends. <i>Journal of Materials Science</i> , 2007 , 42, 3398	4.3	26
14	Waterborne, Nanocomposite Pressure-Sensitive Adhesives with High Tack Energy, Optical Transparency, and Electrical Conductivity. <i>Advanced Materials</i> , 2006 , 18, 2730-2734	24	113
13	Study on morphology of compatibilized poly (vinyl chloride)/ultrafine polyamide-6 blends by styrene/aleic anhydride. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 850-854	2.9	5
12	Preparation and structural characterization of nanocrystalline poly(vinyl chloride). <i>Journal of Applied Polymer Science</i> , 2004 , 91, 563-569	2.9	12
11	Preparation and properties of compatibilized PVC/SMA-g-PA6 blends. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 432-439	2.9	10
10	Non-fullerene acceptor pre-aggregates enable high efficiency pseudo-bulk heterojunction organic solar cells. <i>Science China Chemistry</i> , 1	7.9	4
9	Enhanced Efficiency and Stability of Quasi-2D Perovskite Light-Emitting Diodes with Crosslinkable Alkenyl Amine Cations. <i>Advanced Optical Materials</i> , 2101475	8.1	4
8	Alkyl Chain Tuning of Non-fullerene Electron Acceptors toward 18.2% Efficiency Binary Organic Solar Cells. <i>Chemistry of Materials</i> ,	9.6	9
7	Heating-induced aggregation control for efficient sequential-cast organic solar cells. <i>Aggregate</i> , e104	22.9	3
6	Cold-Aging and Solvent Vapor Mediated Aggregation Control toward 18% Efficiency Binary Organic Solar Cells. <i>Advanced Energy Materials</i> , 2102000	21.8	22
5	Hot-Casting Boosts Efficiency of Halogen-Free Solvent Processed Non-Fullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2105794	15.6	4
4	PEDOT:PSS-Free Polymer Non-Fullerene Polymer Solar Cells with Efficiency up to 18.60% Employing a Binary-Solvent-Chlorinated ITO Anode. <i>Advanced Functional Materials</i> , 2106846	15.6	14
3	Binary Additive Engineering Enables Efficient Perovskite Solar Cells via Spray-Coating in Air. <i>ACS Applied Energy Materials</i> ,	6.1	3
2	Simultaneous Enhanced Device Efficiency and Color Neutrality in Semitransparent Organic Photovoltaics Employing a Synergy of Ternary Strategy and Optical Engineering. <i>Advanced Functional Materials</i> , 2200107	15.6	4

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