

Hong-Bin Wu

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259
papers

20,372
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59
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138
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269
ext. papers

21,807
ext. citations

8.7
avg, IF

6.81
L-index

#	Paper	IF	Citations
259	Enhanced power-conversion efficiency in polymer solar cells using an inverted device structure. <i>Nature Photonics</i> , 2012 , 6, 591-595	33.9	3384
258	Simultaneous enhancement of open-circuit voltage, short-circuit current density, and fill factor in polymer solar cells. <i>Advanced Materials</i> , 2011 , 23, 4636-43	24	1860
257	Single-junction polymer solar cells with high efficiency and photovoltage. <i>Nature Photonics</i> , 2015 , 9, 174-179	33.9	1495
256	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
255	Novel Electroluminescent Conjugated Polyelectrolytes Based on Polyfluorene. <i>Chemistry of Materials</i> , 2004 , 16, 708-716	9.6	509
254	High-efficiency organic solar cells with low non-radiative recombination loss and low energetic disorder. <i>Nature Photonics</i> , 2020 , 14, 300-305	33.9	432
253	White polymer light-emitting devices for solid-state lighting: materials, devices, and recent progress. <i>Advanced Materials</i> , 2014 , 26, 2459-73	24	430
252	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
251	Efficient Electron Injection from a Bilayer Cathode Consisting of Aluminum and Alcohol-/Water-Soluble Conjugated Polymers. <i>Advanced Materials</i> , 2004 , 16, 1826-1830	24	391
250	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
249	Progress and perspective of polymer white light-emitting devices and materials. <i>Chemical Society Reviews</i> , 2009 , 38, 3391-400	58.5	376
248	Quantifying Losses in Open-Circuit Voltage in Solution-Processable Solar Cells. <i>Physical Review Applied</i> , 2015 , 4,	4.3	373
247	Materials and Devices toward Fully Solution Processable Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2011 , 23, 326-340	9.6	368
246	Efficient Polymer White-Light-Emitting Devices for Solid-State Lighting. <i>Advanced Materials</i> , 2009 , 21, 4181-4184	24	302
245	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
244	Largely enhanced efficiency with a PFN/Al bilayer cathode in high efficiency bulk heterojunction photovoltaic cells with a low bandgap polycarbazole donor. <i>Advanced Materials</i> , 2011 , 23, 3086-9	24	221
243	Multi-Length-Scale Morphologies Driven by Mixed Additives in Porphyrin-Based Organic Photovoltaics. <i>Advanced Materials</i> , 2016 , 28, 4727-33	24	219

242	Photoconductive Cathode Interlayer for Highly Efficient Inverted Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6995-8	16.4	216
241	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
240	Recent advances in polymer solar cells: realization of high device performance by incorporating water/alcohol-soluble conjugated polymers as electrode buffer layer. <i>Advanced Materials</i> , 2014 , 26, 1006-24	24	208
239	Simultaneous optimization of charge-carrier balance and luminous efficacy in highly efficient white polymer light-emitting devices. <i>Advanced Materials</i> , 2011 , 23, 2976-80	24	195
238	Stabilization of Semiconducting Polymers with Silsesquioxane. <i>Advanced Functional Materials</i> , 2003 , 13, 25-29	15.6	190
237	High-efficiency ITO-free polymer solar cells using highly conductive PEDOT:PSS/surfactant bilayer transparent anodes. <i>Energy and Environmental Science</i> , 2013 , 6, 1956	35.4	188
236	Control of cationic conjugated polymer performance in light emitting diodes by choice of counterion. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14422-3	16.4	181
235	Series of Multifluorine Substituted Oligomers for Organic Solar Cells with Efficiency over 9% and Fill Factor of 0.77 by Combination Thermal and Solvent Vapor Annealing. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7687-97	16.4	176
234	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
233	Donor Polymers Containing Benzothiadiazole and Four Thiophene Rings in Their Repeating Units with Improved Photovoltaic Performance. <i>Macromolecules</i> , 2009 , 42, 4410-4415	5.5	146
232	High-efficiency electron injection cathode of Au for polymer light-emitting devices. <i>Organic Electronics</i> , 2005 , 6, 118-128	3.5	136
231	Phosphoryl/Sulfonyl-Substituted Iridium Complexes as Blue Phosphorescent Emitters for Single-Layer Blue and White Organic Light-Emitting Diodes by Solution Process. <i>Chemistry of Materials</i> , 2012 , 24, 4581-4587	9.6	126
230	Highly Efficient and Spectrally Stable Blue-Light-Emitting Polyfluorenes Containing a Dibenzothiophene-S,S-dioxide Unit. <i>Chemistry of Materials</i> , 2008 , 20, 4499-4506	9.6	121
229	DNA A-tract bending in three dimensions: solving the dA4T4 vs. dT4A4 conundrum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 1177-82	11.5	118
228	Red, Green, and Blue Light-Emitting Polyfluorenes Containing a Dibenzothiophene-S,S-Dioxide Unit and Efficient High-Color-Rendering-Index White-Light-Emitting Diodes Made Therefrom. <i>Advanced Functional Materials</i> , 2013 , 23, 4366-4376	15.6	115
227	Enhanced open-circuit voltage in polymer solar cells. <i>Applied Physics Letters</i> , 2009 , 95, 043301	3.4	115
226	Toward Highly Sensitive Polymer Photodetectors by Molecular Engineering. <i>Advanced Materials</i> , 2015 , 27, 6496-503	24	114
225	Rational Design of Small Molecular Donor for Solution-Processed Organic Photovoltaics with 8.1% Efficiency and High Fill Factor via Multiple Fluorine Substituents and Thiophene Bridge. <i>Advanced Functional Materials</i> , 2015 , 25, 3514-3523	15.6	110

224	Unexpected Propeller-Like Hexakis(fluorene-2-yl)benzene Cores for Six-Arm Star-Shaped Oligofluorenes: Highly Efficient Deep-Blue Fluorescent Emitters and Good Hole-Transporting Materials. <i>Advanced Functional Materials</i> , 2013 , 23, 1781-1788	15.6	110
223	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
222	Solution-Processed Diketopyrrolopyrrole-Containing Small-Molecule Organic Solar Cells with 7.0% Efficiency: In-Depth Investigation on the Effects of Structure Modification and Solvent Vapor Annealing. <i>Chemistry of Materials</i> , 2015 , 27, 4338-4348	9.6	100
221	Near-Infrared Polymer Light-Emitting Diodes with High Efficiency and Low Efficiency Roll-off by Using Solution-Processed Iridium(III) Phosphors. <i>Chemistry of Materials</i> , 2015 , 27, 96-104	9.6	99
220	Nonfullerene Polymer Solar Cells Based on a Main-Chain Twisted Low-Bandgap Acceptor with Power Conversion Efficiency of 13.2%. <i>ACS Energy Letters</i> , 2018 , 3, 1499-1507	20.1	98
219	High-efficiency polymer photovoltaic devices from regioregular-poly(3-hexylthiophene-2,5-diyl) and [6,6]-phenyl-C61-butyric acid methyl ester processed with oleic acid surfactant. <i>Applied Physics Letters</i> , 2007 , 90, 1835-1837	3.4	97
218	Difluorobenzothiadiazole-Based Small-Molecule Organic Solar Cells with 8.7% Efficiency by Tuning of Conjugated Spacers and Solvent Vapor Annealing. <i>Advanced Functional Materials</i> , 2016 , 26, 1803-1812	15.6	94
217	Investigation of a Conjugated Polyelectrolyte Interlayer for Inverted Polymer:Fullerene Solar Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 718-723	21.8	87
216	Triphenylamine Dendronized Iridium(III) Complexes: Robust Synthesis, Highly Efficient Nondoped Orange Electrophosphorescence and the Structure-Property Relationship. <i>Chemistry of Materials</i> , 2012 , 24, 174-180	9.6	86
215	Synthesis and Characterization of Pyrene-Centered Starburst Oligofluorenes. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 659-664	4.8	79
214	Supramolecular π -Stacking Pyrene-Functioned Fluorenes: Toward Efficient Solution-Processable Small Molecule Blue and White Organic Light Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4641-4647	3.8	78
213	A Novel Benzo[1,2-b:4,5-b']dithiophene-Based Conjugated Polymer with a Pendant Diketopyrrolopyrrole Unit for High-Performance Solar Cells. <i>Macromolecules</i> , 2013 , 46, 113-118	5.5	72
212	Progress in Poly (3-Hexylthiophene) Organic Solar Cells and the Influence of Its Molecular Weight on Device Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1801001	21.8	72
211	Stable and low-photovoltage-loss perovskite solar cells by multifunctional passivation. <i>Nature Photonics</i> , 2021 , 15, 681-689	33.9	72
210	A novel family of RNA tetraloop structure forms the recognition site for <i>Saccharomyces cerevisiae</i> RNase III. <i>EMBO Journal</i> , 2001 , 20, 7240-9	13	71
209	Flexible polymer solar cells with power conversion efficiency of 8.7%. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5077-5082	7.1	70
208	Enhancement of spectral stability and efficiency on blue light-emitters via introducing dibenzothiophene-S,S-dioxide isomers into polyfluorene backbone. <i>Organic Electronics</i> , 2009 , 10, 901-909	3.5	70
207	Efficient Solution-Processed Deep-Blue Organic Light-Emitting Diodes Based on Multibranching Oligofluorenes with a Phosphine Oxide Center. <i>Chemistry of Materials</i> , 2013 , 25, 3320-3327	9.6	69

206	Solution-processed, undoped, deep-blue organic light-emitting diodes based on starburst oligofluorenes with a planar triphenylamine core. <i>Chemistry - A European Journal</i> , 2012 , 18, 6928-34	4.8	69
205	Perylene Bisimide as a Promising Zinc Oxide Surface Modifier: Enhanced Interfacial Combination for Highly Efficient Inverted Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25821-7	9.5	68
204	Recent Advances in Organic Photovoltaics: Device Structure and Optical Engineering Optimization on the Nanoscale. <i>Small</i> , 2016 , 12, 1547-71	11	68
203	Efficient sky-blue and blue-green light-emitting electrochemical cells based on cationic iridium complexes using 1,2,4-triazole-pyridine as the ancillary ligand with cyanogen group in alkyl chain. <i>Organic Electronics</i> , 2011 , 12, 766-773	3.5	65
202	Solution-processed cathode interfacial layer materials for high-efficiency polymer solar cells. <i>Materials Today</i> , 2015 , 18, 385-394	21.8	62
201	Highly efficient iridium(III) phosphors with phenoxy-substituted ligands and their high-performance OLEDs. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 808-821	7.1	61
200	Novel white-light-emitting polyfluorenes with benzothiadiazole and Ir complex on the backbone. <i>Polymer</i> , 2009 , 50, 1430-1437	3.9	59
199	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
198	High-efficiency and good color quality white light-emitting devices based on polymer blend. <i>Organic Electronics</i> , 2009 , 10, 843-848	3.5	52
197	Novel green-light-emitting hyperbranched polymers with iridium complex as core and 3,6-carbazole-co-2,6-pyridine unit as branch. <i>Journal of Materials Chemistry</i> , 2009 , 19, 531-537		52
196	Novel light-emitting electrophosphorescent copolymers based on carbazole with an Ir complex on the backbone. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2824		52
195	Assessing the energy offset at the electron donor/acceptor interface in organic solar cells through radiative efficiency measurements. <i>Energy and Environmental Science</i> , 2019 , 12, 3556-3566	35.4	52
194	Highly efficient single-layer white polymer light-emitting devices employing triphenylamine-based iridium dendritic complexes as orange emissive component. <i>Journal of Materials Chemistry</i> , 2012 , 22, 361-366		49
193	High-Performance Fullerene-Free Polymer Solar Cells Featuring Efficient Photocurrent Generation from Dual Pathways and Low Nonradiative Recombination Loss. <i>ACS Energy Letters</i> , 2019 , 4, 8-16	20.1	49
192	Novel conjugated alternating copolymer based on 2,7-carbazole and 2,1,3-benzoselenadiazole. <i>Polymer</i> , 2010 , 51, 3196-3202	3.9	48
191	Efficiency enhancement in solution-processed organic small molecule: Fullerene solar cells via solvent vapor annealing. <i>Applied Physics Letters</i> , 2015 , 106, 183302	3.4	47
190	High efficiency organic solar cells based on amorphous electron-donating polymer and modified fullerene acceptor. <i>Nano Energy</i> , 2017 , 39, 478-488	17.1	46
189	5,6-Bis(decyloxy)-2,1,3-benzooxadiazole-Based Polymers with Different Electron Donors for Bulk-Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 16211-16219	3.8	45

188	A Series of Energy-Transfer Copolymers Derived from Fluorene and 4,7-Dithienylbenzotriazole for High Efficiency Yellow, Orange, and White Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2011 , 21, 3760-3769	15.6	43
187	Highly efficient green-emitting electrophosphorescent hyperbranched polymers using a bipolar carbazole-3,6-diyl-co-2,8-octyldibenzothiophene-S,S-dioxide-3,7-diyl unit as the branch. <i>RSC Advances</i> , 2012 , 2, 689-696	3.7	42
186	Iridium phosphors with peripheral triphenylamine encapsulation: highly efficient solution-processed red electrophosphorescence. <i>Chemical Communications</i> , 2012 , 48, 2695-7	5.8	42
185	2,7-Carbazole-1,4-phenylene Copolymers with Polar Side Chains for Cathode Modifications in Polymer Light-Emitting Diodes. <i>Macromolecules</i> , 2011 , 44, 4204-4212	5.5	42
184	Platinum-acetylide polymers with higher dimensionality for organic solar cells. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 1766-77	4.5	42
183	High-efficiency electrophosphorescent copolymers containing charged iridium complexes in the side chains. <i>Chemistry - A European Journal</i> , 2007 , 13, 7432-42	4.8	41
182	How the linkage positions affect the performance of bulk-heterojunction polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12523		40
181	White emission polymer light-emitting devices with efficient electron injection from alcohol/water-soluble polymer/Al bilayer cathode. <i>Organic Electronics</i> , 2009 , 10, 299-304	3.5	39
180	High Sensitivity Polymer Visible-Near Infrared Photodetectors via an Inverted Device Structure and Manipulation of Injection Barrier Height. <i>Small</i> , 2016 , 12, 3374-80	11	38
179	Solution processed CdTe/CdSe nanocrystal solar cells with more than 5.5% efficiency by using an inverted device structure. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4227-4234	7.1	37
178	Highly Efficient and Fully Solution-Processed White Electroluminescence Based on Fluorescent Small Molecules and a Polar Conjugated Polymer as the Electron-Injection Material. <i>Advanced Functional Materials</i> , 2012 , 22, 1092-1097	15.6	37
177	Pyrene functioned diarylfluorenes as efficient solution processable light emitting molecular glass. <i>Organic Electronics</i> , 2009 , 10, 256-265	3.5	37
176	Side Chain Influence on the Morphology and Photovoltaic Performance of 5-Fluoro-6-alkyloxybenzothiadiazole and Benzodithiophene Based Conjugated Polymers. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10710-7	9.5	36
175	Two novel orange cationic iridium(III) complexes with multifunctional ancillary ligands used for polymer light-emitting diodes. <i>Organic Electronics</i> , 2012 , 13, 3211-3219	3.5	36
174	Nonradiative Energy Losses in Bulk-Heterojunction Organic Photovoltaics. <i>Physical Review X</i> , 2018 , 8,	9.1	36
173	Rational design of diketopyrrolopyrrole-based oligomers for high performance small molecular photovoltaic materials via an extended framework and multiple fluorine substitution. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11575-11586	13	35
172	Weaning disrupts intestinal antioxidant status, impairs intestinal barrier and mitochondrial function, and triggers mitophagy in piglets. <i>Journal of Animal Science</i> , 2018 , 96, 1073-1083	0.7	35
171	RGB small molecules based on a bipolar molecular design for highly efficient solution-processed single-layer OLEDs. <i>Chemistry - A European Journal</i> , 2012 , 18, 2707-14	4.8	35

170	Donor End-Capped Hexafluorinated Oligomers for Organic Solar Cells with 9.3% Efficiency by Engineering the Position of EBridge and Sequence of Two-Step Annealing. <i>Chemistry of Materials</i> , 2017 , 29, 1036-1046	9.6	34
169	Blue light-emitting hyperbranched polymers using fluorene-co-dibenzothiophene-S,S-dioxide as branches. <i>Journal of Polymer Science Part A</i> , 2015 , 53, 1043-1051	2.5	34
168	Side chain modification: an effective approach to modulate the energy level of benzodithiophene based polymers for high-performance solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18115-18126 ¹³		33
167	Interface investigation of the alcohol-/water-soluble conjugated polymer PFN as cathode interfacial layer in organic solar cells. <i>Journal of Applied Physics</i> , 2013 , 114, 113709	2.5	33
166	Red light-emitting hyperbranched fluorene-alt-carbazole copolymers with an iridium complex as the core. <i>Polymer Chemistry</i> , 2011 , 2, 2193	4.9	33
165	Optimized Phase Separation and Reduced Geminate Recombination in High Fill Factor Small-Molecule Organic Solar Cells. <i>ACS Energy Letters</i> , 2017 , 2, 14-21	20.1	32
164	Efficient yellow-green light-emitting cationic iridium complexes based on 1,10-phenanthroline derivatives containing oxadiazole-triphenylamine unit. <i>Dyes and Pigments</i> , 2014 , 100, 79-86	4.6	32
163	Highly Efficient, Red-Emitting Hyperbranched Polymers Utilizing a Phenyl-Isoquinoline Iridium Complex as the Core. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 820-828	2.6	32
162	Realization of highly efficient white polymer light-emitting devices via interfacial energy transfer from poly(N-vinylcarbazole). <i>Organic Electronics</i> , 2010 , 11, 529-534	3.5	32
161	A Facile Synthesized Polymer Featuring B-N Covalent Bond and Small Singlet-Triplet Gap for High-Performance Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8813-8817	16.4	32
160	Simultaneous spin-coating and solvent annealing: manipulating the active layer morphology to a power conversion efficiency of 9.6% in polymer solar cells. <i>Materials Horizons</i> , 2015 , 2, 592-597	14.4	31
159	Self-assembled perylene bisimide J-aggregates as promising cathode modifiers for highly efficient inverted polymer solar cells. <i>Materials Horizons</i> , 2015 , 2, 514-518	14.4	30
158	Dithieno[3,2-b:2',3'-d]pyridin-5(4H)-one-based polymers with a bandgap up to 2.02 eV for high performance field-effect transistors and polymer solar cells with an open-circuit voltage up to 0.98 V and an efficiency up to 6.84%. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20516-20526	13	30
157	A butterfly-like yellow luminescent Ir(III) complex and its application in highly efficient polymer light-emitting devices. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22496		30
156	Efficient red-light-emitting diodes based on novel amino-alkyl containing electrophosphorescent polyfluorenes with Al or Au as cathode. <i>Organic Electronics</i> , 2009 , 10, 42-47	3.5	30
155	Synthesis, characterization and photovoltaic performances of D _A copolymers based on BDT and DBPz: the largely improved performance caused by additional thiophene blocks. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4508	13	29
154	Highly efficient and stable blue polymer light emitting diodes based on polysilafluorenes with pendent hole transporting groups. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 905-913	7.1	28
153	A novel near-infrared-emitting cyclometalated platinum (II) complex with donor-acceptor-acceptor chromophores. <i>Dyes and Pigments</i> , 2014 , 107, 146-152	4.6	28

152	Highly efficient, solution-processed orange-red phosphorescent OLEDs by using new iridium phosphor with thieno[3,2-c]pyridine derivative as cyclometalating ligand. <i>Organic Electronics</i> , 2013 , 14, 3392-3398	3.5	28
151	Tuning the energy levels and photophysical properties of triphenylamine-featured iridium(III) complexes: application in high performance polymer light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11128		28
150	Origin of high fill factor in polymer solar cells from semiconducting polymer with moderate charge carrier mobility. <i>Organic Electronics</i> , 2015 , 24, 125-130	3.5	27
149	Multifunctional homoleptic iridium(III) dendrimers towards solution-processed nondoped electrophosphorescence with low efficiency roll-off. <i>Organic Electronics</i> , 2014 , 15, 1598-1606	3.5	26
148	Boosting Up Performance of Inverted Photovoltaic Cells from Bis(alkylthien-2-yl)dithieno[2,3-d:2',3'-d']benzo[1,2-b:4,5-b']dithiophene-Based Copolymers by Advantageous Vertical Phase Separation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10937-10945	9.5	25
147	High-Sensitivity Visible-Near Infrared Organic Photodetectors Based on Non-Fullerene Acceptors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17769-17775	9.5	25
146	High-efficiency solution-processed CdTe nanocrystal solar cells incorporating a novel crosslinkable conjugated polymer as the hole transport layer. <i>Nano Energy</i> , 2018 , 46, 150-157	17.1	25
145	Hyperbranched framework of interrupted π -conjugated polymers end-capped with high carrier-mobility moieties for stable light-emitting materials with low driving voltage. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 6451-6462	2.5	25
144	Fully solution-processed and multilayer blue organic light-emitting diodes based on efficient small molecule emissive layer and intergrated interlayer optimization. <i>Organic Electronics</i> , 2015 , 27, 35-40	3.5	24
143	Polymer solar cells spray coated with non-halogenated solvents. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 161, 52-61	6.4	23
142	Star-shaped isoindigo-based small molecules as potential non-fullerene acceptors in bulk heterojunction solar cells. <i>New Journal of Chemistry</i> , 2015 , 39, 8771-8779	3.6	23
141	Improving performance in CdTe/CdSe nanocrystals solar cells by using bulk nano-heterojunctions. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6483-6491	7.1	23
140	An alkylthieno-2-yl flanked dithieno[2,3-d:2',3'-d']benzo[1,2-b:4,5-b']dithiophene-based low band gap conjugated polymer for high performance photovoltaic solar cells. <i>RSC Advances</i> , 2015 , 5, 12879-12885	3.7	23
139	Highly efficient single-layer organic light-emitting devices using cationic iridium complex as host. <i>Organic Electronics</i> , 2013 , 14, 744-753	3.5	23
138	Highly Efficient and Stable Deep Blue Light Emitting Poly(9,9-dialkoxyphenyl-2,7-silafluorene): Synthesis and Electroluminescent Properties. <i>Macromolecules</i> , 2011 , 44, 17-19	5.5	23
137	Recent Progress on Solution-Processed CdTe Nanocrystals Solar Cells. <i>Applied Sciences (Switzerland)</i> , 2016 , 6, 197	2.6	23
136	Roll-to-Roll Slot-Die-Printed Polymer Solar Cells by Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22485-22494	9.5	22
135	Enhancement of open-circuit voltage and the fill factor in CdTe nanocrystal solar cells by using interface materials. <i>Nanotechnology</i> , 2014 , 25, 365203	3.4	22

134	Bipolar blue-emitting poly(N-9'-heptadecanyl-carbazole-2,7-diyl-co-dibenzothiophene-S,S-dioxide-3,7-diyl)s. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3440		22
133	Hyperbranched red light-emitting phosphorescent polymers based on iridium complex as the core. <i>Journal of Luminescence</i> , 2015 , 167, 179-185	3.8	21
132	Origin of Reduced Open-Circuit Voltage in Highly Efficient Small-Molecule-Based Solar Cells upon Solvent Vapor Annealing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8141-8147	9.5	21
131	Toward high performance indacenodithiophene-based small-molecule organic solar cells: investigation of the effect of fused aromatic bridges on the device performance. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2252-2262	13	21
130	Highly efficient red phosphorescent organic light-emitting diodes based on solution processed emissive layer. <i>Journal of Luminescence</i> , 2013 , 142, 35-39	3.8	21
129	Platinum-based poly(aryleneethynylene) polymers containing thiazolothiazole group with high hole mobilities for field-effect transistor applications. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 603-608	4.8	21
128	Charge carrier transport and nanomorphology control for efficient non-fullerene organic solar cells. <i>Materials Today Energy</i> , 2019 , 12, 398-407	7	20
127	Design and synthesis of triazoloquinoxaline polymers with positioning alkyl or alkoxy chains for organic photovoltaics cells. <i>Polymer Chemistry</i> , 2014 , 5, 1163-1172	4.9	20
126	Efficient white emitting copolymers based on bipolar fluorene-co-dibenzothiophene-S,S-dioxide-co-carbazole backbone. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013 , 31, 88-97	3.5	20
125	Photocurrent hysteresis by ion motion within conjugated polyelectrolyte electron transporting layers. <i>Journal of Materials Chemistry</i> , 2009 , 19, 211-214		20
124	Dibenzothiophene-S,S-dioxide and Bispyridinium-Based Cationic Polyfluorene Derivative as an Efficient Cathode Modifier for Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4778-4787	9.5	19
123	Novel Hybrid Ligands for Passivating PbS Colloidal Quantum Dots to Enhance the Performance of Solar Cells. <i>Nano-Micro Letters</i> , 2015 , 7, 325-331	19.5	19
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