Chu-Chen Chueh

List of Publications by Year in Descending Order

258 papers	20,850 citations	81 h-index	139 g-index
267 ext. papers	24,208 ext. citations	13 avg, IF	7.39 L-index

#	Paper	IF	Citations
258	Low-Energy-Consumption and Electret-Free Photosynaptic Transistor Utilizing Poly(3-hexylthiophene)-Based Conjugated Block Copolymers.. *Advanced Science*, **2022**, e2105190	13.6	5
257	An asymmetric 2,3-fluoranthene imide building block for regioregular semiconductors with aggregation-induced emission properties.. *Chemical Science*, **2022**, 13, 996-1002	9.4	3
256	Reducing the side-chain influences of isoindigo-based polymer donors by backbone fluorination in photovoltaic applications. *Dyes and Pigments*, **2022**, 199, 110038	4.6	0
255	An effective and economical encapsulation method for trapping lead leakage in rigid and flexible perovskite photovoltaics. *Nano Energy*, **2022**, 93, 106853	17.1	15
254	Inorganic-Cation Pseudohalide 2D Cs 2 Pb(SCN) 2 Br 2 Perovskite Single Crystal (Adv. Mater. 7/2022). *Advanced Materials*, **2022**, 34, 2270054	24	
253	Organometallic-functionalized interfaces for highly efficient inverted perovskite solar cells.. *Science*, **2022**, 376, 416-420	33.3	81
252	Improving Thermal and Photostability of Polymer Solar Cells by Robust Interface Engineering.. *Small*, **2022**, e2107834	11	1
251	Polymer synaptic transistors from memory to neuromorphic computing. *Materials Chemistry and Physics*, **2022**, 126263	4.4	0
250	Surface engineered CoP/CoO heterojunction for high-performance bi-functional water splitting electro-catalysis. *Nanoscale*, **2021**,	7.7	2
249	Coil□od□oil triblock copolymers synthesized by macromolecular clicking and their compatibilizer effects in all-polymer solar cells. *Journal of Materials Chemistry C*, **2021**, 10, 346-359	7.1	0
248	Biaxially Extended Side-Chain Conjugation of Benzodithiophene-Based Polymer Dots for Superior Photocatalytic Stability under Visible-Light Irradiation. *Journal of Environmental Chemical Engineering*, **2021**, 10, 106927	6.8	0
247	Intrinsically stretchable naphthalenediimide□bithiophene conjugated statistical terpolymers using branched conjugation break spacers for field□effect transistors. *Polymer Chemistry*, **2021**, 12, 6167-6178	4.9	3
246	Designs from single junctions, heterojunctions to multijunctions for high-performance perovskite solar cells. *Chemical Society Reviews*, **2021**, 50, 13090-13128	58.5	23
245	Enabling High Efficiency of Hydrocarbon-Solvent Processed Organic Solar Cells through Balanced Charge Generation and Non-Radiative Loss. *Advanced Energy Materials*, **2021**, 11, 2101768	21.8	18
244	Selenium-Containing Organic Photovoltaic Materials. *Accounts of Chemical Research*, **2021**, 54, 3906-3916	24.3	15
243	Low-Bandgap Organic Bulk-Heterojunction Enabled Efficient and Flexible Perovskite Solar Cells. *Advanced Materials*, **2021**, 33, e2105539	24	27
242	Realizing Nonvolatile Photomemories with Multilevel Memory Behaviors Using Water-Processable Polymer Dots-Based Hybrid Floating Gates. *ACS Applied Electronic Materials*, **2021**, 3, 1708-1718	4	8

241	Improving Mobility–Stretchability Properties of Polythiophene Derivatives through Ester-Substituted, Biaxially Extended Conjugated Side Chains. *ACS Applied Polymer Materials*, **2021**, 3, 1628-1637	4.3	6
240	Pyrene-Incorporated Side Chain in π-Conjugated Polymers for Non-Volatile Transistor-Type Memory Devices with Improved Stretchability. *ACS Applied Polymer Materials*, **2021**, 3, 2109-2119	4.3	1
239	A Simple Dithieno[3,2-b:2′,3′-d]pyrrol-Rhodanine Molecular Third Component Enables Over 16.7% Efficiency and Stable Organic Solar Cells. *Small*, **2021**, 17, e2007746	11	13
238	Comprehensive Non-volatile Photo-programming Transistor Memory via a Dual-Functional Perovskite-Based Floating Gate. *ACS Applied Materials & Interfaces*, **2021**, 13, 20417-20426	9.5	9
237	Cross-Linking of Poly(arylenebutadiynylene)s and Its Effect on Charge Carrier Mobilities in Thin-Film Transistors. *Macromolecules*, **2021**, 54, 4351-4362	5.5	1
236	Low-Cost Hole-Transporting Materials Based on Carbohelicene for High-Performance Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 20051-20059	9.5	1
235	Technical Challenges and Perspectives for the Commercialization of Solution-Processable Solar Cells. *Advanced Materials Technologies*, **2021**, 6, 2000960	6.8	18
234	An Efficient and Reversible Battery Anode Electrode Derived from a Lead-Based Metal−Organic Framework. *Energy & Fuels*, **2021**, 35, 9669-9682	4.1	4
233	Materials Design and Optimization for Next-Generation Solar Cell and Light-Emitting Technologies. *Journal of Physical Chemistry Letters*, **2021**, 12, 4638-4657	6.4	5
232	Multi-Selenophene-Containing Narrow Bandgap Polymer Acceptors for All-Polymer Solar Cells with over 15 % Efficiency and High Reproducibility. *Angewandte Chemie*, **2021**, 133, 16071-16079	3.6	0
231	Dopant-Free Hole-Transporting Material with Enhanced Intermolecular Interaction for Efficient and Stable n-i-p Perovskite Solar Cells. *Advanced Energy Materials*, **2021**, 11, 2100967	21.8	11
230	Multi-Selenophene-Containing Narrow Bandgap Polymer Acceptors for All-Polymer Solar Cells with over 15 % Efficiency and High Reproducibility. *Angewandte Chemie - International Edition*, **2021**, 60, 15935-15943	16.4	54
229	Stable blue perovskite light-emitting diodes achieved by optimization of crystal dimension through zinc bromide addition. *Chemical Engineering Journal*, **2021**, 414, 128774	14.7	17
228	Asymmetric Isomer Effects in Benzo[c][1,2,5]thiadiazole-Fused Nonacyclic Acceptors: Dielectric Constant and Molecular Crystallinity Control for Significant Photovoltaic Performance Enhancement. *Advanced Functional Materials*, **2021**, 31, 2104369	15.6	15
227	Low-Temperature Processed Carbon Electrode-Based Inorganic Perovskite Solar Cells with Enhanced Photovoltaic Performance and Stability. *Energy and Environmental Materials*, **2021**, 4, 95-102	13	10
226	Efficient thick film non-fullerene organic solar cells enabled by using a strong temperature-dependent aggregative wide bandgap polymer. *Chemical Engineering Journal*, **2021**, 405, 127033	14.7	6
225	XPS spectra as a tool for studying photochemical and thermal degradation in APbX3 hybrid halide perovskites. *Nano Energy*, **2021**, 79, 105421	17.1	15
224	Fabricating efficient flexible organic photovoltaics using an eco-friendly cellulose nanofibers/silver nanowires conductive substrate. *Chemical Engineering Journal*, **2021**, 405, 126996	14.7	16

223	Enhancing Long-Term Thermal Stability of Non-Fullerene Organic Solar Cells Using Self-Assembly Amphiphilic Dendritic Block Copolymer Interlayers. *Advanced Functional Materials*, **2021**, 31, 2005753	15.6	16
222	Over 17% Efficiency Binary Organic Solar Cells with Photoresponses Reaching 1000 nm Enabled by Selenophene-Fused Nonfullerene Acceptors. *ACS Energy Letters*, **2021**, 6, 9-15	20.1	79
221	Dopant-free dicyanofluoranthene-based hole transporting material with low cost enables efficient flexible perovskite solar cells. *Nano Energy*, **2021**, 82, 105701	17.1	35
220	Asymmetric Acceptors Enabling Organic Solar Cells to Achieve an over 17% Efficiency: Conformation Effects on Regulating Molecular Properties and Suppressing Nonradiative Energy Loss. *Advanced Energy Materials*, **2021**, 11, 2003177	21.8	61
219	Exploring the effect of the spacer structure in the heterocyclic ring-fused isoindigo-based conjugated polymer on the charge-transporting property. *Journal of Polymer Research*, **2021**, 28, 1	2.7	0
218	Improving the performance of all-inorganic perovskite light-emitting diodes through using polymeric interlayers with a pendant design. *Materials Chemistry Frontiers*, **2021**, 5, 7199-7207	7.8	0
217	Intrinsically stretchable polymer semiconductors: molecular design, processing and device applications. *Journal of Materials Chemistry C*, **2021**, 9, 2660-2684	7.1	13
216	Investigating the backbone conformation and configuration effects for donor–acceptor conjugated polymers with ladder-type structures synthesized through Aldol polycondensation. *Journal of Materials Chemistry C*, **2021**, 9, 9473-9483	7.1	2
215	Improved stability and efficiency of perovskite/organic tandem solar cells with an all-inorganic perovskite layer. *Journal of Materials Chemistry A*, **2021**, 9, 19778-19787	13	13
214	Modifying Surface Termination of CsPbI3 Grain Boundaries by 2D Perovskite Layer for Efficient and Stable Photovoltaics. *Advanced Functional Materials*, **2021**, 31, 2009515	15.6	24
213	Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridine-Based Dopant-Free Polymer Semiconductor. *Angewandte Chemie - International Edition*, **2021**, 60, 7227-7233	16.4	42
212	Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridine-Based Dopant-Free Polymer Semiconductor. *Angewandte Chemie*, **2021**, 133, 7303-7309	3.6	8
211	High Efficiency (15.8%) All-Polymer Solar Cells Enabled by a Regioregular Narrow Bandgap Polymer Acceptor. *Journal of the American Chemical Society*, **2021**, 143, 2665-2670	16.4	112
210	Synergistical Dipole–Dipole Interaction Induced Self-Assembly of Phenoxazine-Based Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells. *Angewandte Chemie*, **2021**, 133, 20600-20605	3.6	1
209	Thiol-end-functionalized Regioregular Poly(3-hexylthiophene) for PbS Quantum Dot Dispersions. *ACS Applied Polymer Materials*, **2021**, 3, 4450-4459	4.3	0
208	Realizing Stable High-Performance and Low-Energy-Loss Ternary Photovoltaics through Judicious Selection of the Third Component. *Solar Rrl*, **2021**, 5, 2100450	7.1	7
207	Influence of Oxygen Ion Migration from Substrates on Photochemical Degradation of CH3NH3PbI3 Hybrid Perovskite. *Energies*, **2021**, 14, 5062	3.1	0
206	Investigation of the Mobility–Stretchability Properties of Naphthalenediimide-Based Conjugated Random Terpolymers with a Functionalized Conjugation Break Spacer. *Macromolecules*, **2021**, 54, 7388-7399	5.5	10

205	Synergistical Dipole-Dipole Interaction Induced Self-Assembly of Phenoxazine-Based Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells. *Angewandte Chemie - International Edition*, **2021**, 60, 20437-20442	16.4	13
204	Highly efficient and stable perovskite solar cells enabled by a fluoro-functionalized TiO2 inorganic interlayer. *Matter*, **2021**,	12.7	8
203	A highly responsive hybrid photodetector based on all-inorganic 2D heterojunction consisting of Cs2Pb(SCN)2Br2 and MoS2. *Chemical Engineering Journal*, **2021**, 422, 130112	14.7	3
202	Naphthalene-diimide-based all-conjugated block copolymer as an effective compatibilizer to improve the performance and thermal stability of all-polymer solar cells. *Materials Chemistry Frontiers*, **2021**, 5, 7216-7227	7.8	3
201	Inorganic-Cation Pseudo-Halide Two-dimensional Cs Pb(SCN) Br Perovskite Single Crystal. *Advanced Materials*, **2021**, e2104782	24	6
200	Composition Engineering of All-Inorganic Perovskite Film for Efficient and Operationally Stable Solar Cells. *Advanced Functional Materials*, **2020**, 30, 2001764	15.6	42
199	Interfacial Modification through a Multifunctional Molecule for Inorganic Perovskite Solar Cells with over 18% Efficiency. *Solar Rrl*, **2020**, 4, 2000205	7.1	22
198	Modulation of Defects and Interfaces through Alkylammonium Interlayer for Efficient Inverted Perovskite Solar Cells. *Joule*, **2020**, 4, 1248-1262	27.8	143
197	Dopant-Free Crossconjugated Hole-Transporting Polymers for Highly Efficient Perovskite Solar Cells. *Advanced Science*, **2020**, 7, 1903331	13.6	29
196	Study on Intrinsic Stretchability of Diketopyrrolopyrrole-Based Conjugated Copolymers with Poly(acryl amide) Side Chains for Organic Field-Effect Transistors. *ACS Applied Materials & Interfaces*, **2020**, 12, 33014-33027	9.5	31
195	Investigation of the Mobility Stretchability Relationship of Ester-Substituted Polythiophene Derivatives. *Macromolecules*, **2020**, 53, 4968-4981	5.5	15
194	Hybrid Perovskite-Organic Flexible Tandem Solar Cell Enabling Highly Efficient Electrocatalysis Overall Water Splitting. *Advanced Energy Materials*, **2020**, 10, 2000361	21.8	37
193	Solution-Processable Anion-doped Conjugated Polymer for Nonvolatile Organic Transistor Memory with Synaptic Behaviors. *ACS Applied Materials & Interfaces*, **2020**, 12, 33968-33978	9.5	18
192	Development of Block Copolymers with Poly(3-hexylthiophene) Segments as Compatibilizers in Non-Fullerene Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 12083-12092	9.5	15
191	Recent progress of anion-based 2D perovskites with different halide substitutions. *Journal of Materials Chemistry C*, **2020**, 8, 4294-4302	7.1	11
190	Dopant-Free Organic Hole-Transporting Material for Efficient and Stable Inverted All-Inorganic and Hybrid Perovskite Solar Cells. *Advanced Materials*, **2020**, 32, e1908011	24	120
189	Facile Fabrication of Stretchable Touch-Responsive Perovskite Light-Emitting Diodes Using Robust Stretchable Composite Electrodes. *ACS Applied Materials & Interfaces*, **2020**, 12, 14408-14415	9.5	20
188	Biaxially-extended side-chain engineering of benzodithiophene-based conjugated polymers and their applications in polymer solar cells. *Organic Electronics*, **2020**, 79, 105630	3.5	10

187	Structure–Mobility Relationship of Benzodithiophene-Based Conjugated Polymers with Varied Biaxially Extended Conjugated Side Chains. *Industrial & Engineering Chemistry Research*, **2020**, 59, 9105-9115	3.9	9
186	Improving the Performance and Stability of Perovskite Light-Emitting Diodes by a Polymeric Nanothick Interlayer-Assisted Grain Control Process. *ACS Omega*, **2020**, 5, 8972-8981	3.9	13
185	Exploitation of two-dimensional conjugated covalent organic frameworks based on tetraphenylethylene with bicarbazole and pyrene units and applications in perovskite solar cells. *Journal of Materials Chemistry A*, **2020**, 8, 11448-11459	13	58
184	XPS evidence of degradation mechanism in CHNHPbI hybrid perovskite. *Journal of Physics Condensed Matter*, **2020**, 32, 095501	1.8	10
183	Highly efficient all-inorganic perovskite solar cells with suppressed non-radiative recombination by a Lewis base. *Nature Communications*, **2020**, 11, 177	17.4	200
182	Electrospinning-induced elastomeric properties of conjugated polymers for extremely stretchable nanofibers and rubbery optoelectronics. *Journal of Materials Chemistry C*, **2020**, 8, 873-882	7.1	20
181	Vertical Orientated Dion–Jacobson Quasi-2D Perovskite Film with Improved Photovoltaic Performance and Stability. *Small Methods*, **2020**, 4, 1900831	12.8	52
180	Conjugated polysquaraines synthesized by polycondensation: Physical, optical, and charge transport properties. *Dyes and Pigments*, **2020**, 175, 108162	4.6	1
179	Improving Photovoltaic Performance Using Perovskite/Surface-Modified Graphitic Carbon Nitride Heterojunction. *Solar Rrl*, **2020**, 4, 1900413	7.1	22
178	Minimized surface deficiency on wide-bandgap perovskite for efficient indoor photovoltaics. *Nano Energy*, **2020**, 78, 105377	17.1	32
177	Recent advance in renewable materials and green processes for optoelectronic applications. *Materials Today Sustainability*, **2020**, 11-12, 100057	5	2
176	Regulating Surface Termination for Efficient Inverted Perovskite Solar Cells with Greater Than 23% Efficiency. *Journal of the American Chemical Society*, **2020**, 142, 20134-20142	16.4	185
175	Two-Dimensional CsPb(SCN)Br-Based Photomemory Devices Showing a Photoinduced Recovery Behavior and an Unusual Fully Optically Driven Memory Behavior. *ACS Applied Materials & Interfaces*, **2020**, 12, 36398-36408	9.5	22
174	High Mobility Preservation of Near Amorphous Conjugated Polymers in the Stretched States Enabled by Biaxially-Extended Conjugated Side-Chain Design. *Chemistry of Materials*, **2020**, 32, 7370-7382	9.6	27
173	Backbone Engineering of Diketopyrrolopyrrole-Based Conjugated Polymers through Random Terpolymerization for Improved Mobility-Stretchability Property. *ACS Applied Materials & Interfaces*, **2020**, 12, 50648-50659	9.5	20
172	2D metal-organic framework for stable perovskite solar cells with minimized lead leakage. *Nature Nanotechnology*, **2020**, 15, 934-940	28.7	119
171	A Non-fullerene Acceptor with Enhanced Intermolecular π–Core Interaction for High-Performance Organic Solar Cells. *Journal of the American Chemical Society*, **2020**, 142, 15246-15251	16.4	138
170	A Generally Applicable Approach Using Sequential Deposition to Enable Highly Efficient Organic Solar Cells. *Small Methods*, **2020**, 4, 2000687	12.8	56

169	Improving Performance of Nonvolatile Perovskite-Based Photomemory by Size Restrain of Perovskites Nanocrystals in the Hybrid Floating Gate. *Advanced Electronic Materials*, **2020**, 6, 2000458	6.4	14
168	Over 15% Efficiency in Ternary Organic Solar Cells by Enhanced Charge Transport and Reduced Energy Loss. *ACS Applied Materials & Interfaces*, **2020**, 12, 21633-21640	9.5	22
167	Engineering of perovskite light-emitting diodes based on quasi-2D perovskites formed by diamine cations. *Organic Electronics*, **2019**, 75, 105400	3.5	12
166	Stretchable and Ambient Stable Perovskite/Polymer Luminous Hybrid Nanofibers of Multicolor Fiber Mats and Their White LED Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 23605-23615	9.5	37
165	Harnessing MOF materials in photovoltaic devices: recent advances, challenges, and perspectives. *Journal of Materials Chemistry A*, **2019**, 7, 17079-17095	13	182
164	Efficient large guanidinium mixed perovskite solar cells with enhanced photovoltage and low energy losses. *Chemical Communications*, **2019**, 55, 4315-4318	5.8	85
163	Perovskite Solar Cells: Enhancing Efficiency and Stability of Photovoltaic Cells by Using Perovskite/Zr-MOF Heterojunction Including Bilayer and Hybrid Structures (Adv. Sci. 5/2019). *Advanced Science*, **2019**, 6, 1970030	13.6	6
162	Improving Performance of Perovskite Solar Cells Using [7]Helicenes with Stable Partial Biradical Characters as the Hole-Extraction Layers. *Advanced Functional Materials*, **2019**, 29, 1808625	15.6	29
161	Asymmetric Side-Chain Engineering of Isoindigo-Based Polymers for Improved Stretchability and Applications in Field-Effect Transistors. *ACS Applied Materials & Interfaces*, **2019**, 11, 34158-34170	9.5	35
160	Photon-Induced Reshaping in Perovskite Material Yields of Nanocrystals with Accurate Control of Size and Morphology. *Journal of Physical Chemistry Letters*, **2019**, 10, 4149-4156	6.4	7
159	Trihydrazine Dihydriodide-Assisted Fabrication of Efficient Formamidinium Tin Iodide Perovskite Solar Cells. *Solar Rrl*, **2019**, 3, 1900285	7.1	25
158	Boosting the Performance of Environmentally Friendly Quantum Dot-Sensitized Solar Cells over 13% Efficiency by Dual Sensitizers with Cascade Energy Structure. *Advanced Materials*, **2019**, 31, e1903696	24	37
157	A 0D/3D Heterostructured All-Inorganic Halide Perovskite Solar Cell with High Performance and Enhanced Phase Stability. *Advanced Materials*, **2019**, 31, e1904735	24	77
156	A Dopant-Free Polymeric Hole-Transporting Material Enabled High Fill Factor Over 81% for Highly Efficient Perovskite Solar Cells. *Advanced Energy Materials*, **2019**, 9, 1902600	21.8	52
155	Enhanced Near-Infrared Photoresponse of Inverted Perovskite Solar Cells Through Rational Design of Bulk-Heterojunction Electron-Transporting Layers. *Advanced Science*, **2019**, 6, 1901714	13.6	16
154	Dopant-Free Squaraine-Based Polymeric Hole-Transporting Materials with Comprehensive Passivation Effects for Efficient All-Inorganic Perovskite Solar Cells. *Angewandte Chemie - International Edition*, **2019**, 58, 17724-17730	16.4	83
153	Recent advances in molecular design of functional conjugated polymers for high-performance polymer solar cells. *Progress in Polymer Science*, **2019**, 99, 101175	29.6	83
152	Boosting Photovoltaic Performance for Lead Halide Perovskites Solar Cells with BF_4^- Anion Substitutions. *Advanced Functional Materials*, **2019**, 29, 1808833	15.6	62

151	Exploitation of Thermoresponsive Switching Organic Field-Effect Transistors. *ACS Omega*, **2019**, 4, 22082-22088	3.9	9
150	Enhancing Efficiency and Stability of Photovoltaic Cells by Using Perovskite/Zr-MOF Heterojunction Including Bilayer and Hybrid Structures. *Advanced Science*, **2019**, 6, 1801715	13.6	104
149	Improved Efficiency and Stability of Pb/Sn Binary Perovskite Solar Cells Fabricated by Galvanic Displacement Reaction. *Advanced Energy Materials*, **2019**, 9, 1802774	21.8	48
148	Improving performance of Cs-based perovskite light-emitting diodes by dual additives consisting of polar polymer and n-type small molecule. *Organic Electronics*, **2019**, 67, 294-301	3.5	24
147	Stable, color-tunable 2D SCN-based perovskites: revealing the critical influence of an asymmetric pseudo-halide on constituent ions. *Nanoscale*, **2019**, 11, 2608-2616	7.7	13
146	Feasibility study of atmospheric-pressure dielectric barrier discharge treatment on CH3NH3PbI3 films for inverted planar perovskite solar cells. *Electrochimica Acta*, **2019**, 293, 1-7	6.7	14
145	Fluoranthene-based dopant-free hole transporting materials for efficient perovskite solar cells. *Chemical Science*, **2018**, 9, 2698-2704	9.4	87
144	Tunable Band Gap and Long Carrier Recombination Lifetime of Stable Mixed CH3NH3PbxSn1−xBr3 Single Crystals. *Chemistry of Materials*, **2018**, 30, 1556-1565	9.6	63
143	Low-Temperature Solution-Processed CuCrO2 Hole-Transporting Layer for Efficient and Photostable Perovskite Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1702762	21.8	100
142	Realizing Efficient Lead-Free Formamidinium Tin Triiodide Perovskite Solar Cells via a Sequential Deposition Route. *Advanced Materials*, **2018**, 30, 1703800	24	151
141	Mechanically robust, stretchable organic solar cells via buckle-on-elastomer strategy. *Organic Electronics*, **2018**, 53, 339-345	3.5	25
140	Uniform Luminous Perovskite Nanofibers with Color-Tunability and Improved Stability Prepared by One-Step Core/Shell Electrospinning. *Small*, **2018**, 14, e1704379	11	68
139	Nonfullerene Acceptor Molecules for Bulk Heterojunction Organic Solar Cells. *Chemical Reviews*, **2018**, 118, 3447-3507	68.1	1051
138	Enhanced crystallization and performance of formamidinium lead triiodide perovskite solar cells through PbI2-SrCl2 modulation. *Materials Today Energy*, **2018**, 7, 239-245	7	9
137	Enhancing efficiency of perovskite solar cells by reducing defects through imidazolium cation incorporation. *Materials Today Energy*, **2018**, 7, 161-168	7	31
136	Inorganic CsPb1−xSnxIBr2 for Efficient Wide-Bandgap Perovskite Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1800525	21.8	154
135	Solution-Processable, Transparent Polyimide for High-Performance High-k Nanocomposite: Synthesis, Characterization, and Dielectric Applications in Transistors. *Asian Journal of Organic Chemistry*, **2018**, 7, 2263-2270	3	2
134	Bio-Based Transparent Conductive Film Consisting of Polyethylene Furanoate and Silver Nanowires for Flexible Optoelectronic Devices. *Macromolecular Rapid Communications*, **2018**, 39, e1800271	4.8	29

133	Realization of Intrinsically Stretchable Organic Solar Cells Enabled by Charge-Extraction Layer and Photoactive Material Engineering. *ACS Applied Materials & Interfaces*, **2018**, 10, 21712-21720	9.5	36
132	Efficient and UV-stable perovskite solar cells enabled by side chain-engineered polymeric hole-transporting layers. *Journal of Materials Chemistry A*, **2018**, 6, 12999-13004	13	36
131	Highly Efficient and Stable Perovskite Solar Cells Enabled by All-Crosslinked Charge-Transporting Layers. *Joule*, **2018**, 2, 168-183	27.8	84
130	Advances and challenges of green materials for electronics and energy storage applications: from design to end-of-life recovery. *Journal of Materials Chemistry A*, **2018**, 6, 20546-20563	13	65
129	Alcohol-Soluble Cross-Linked Poly(nBA) - b-Poly(NVTri) Block Copolymer and Its Applications in Organic Photovoltaic Cells for Improved Stability. *ACS Applied Materials & Interfaces*, **2018**, 10, 44741-44750	9.5	8
128	A Nonfullerene Semitransparent Tandem Organic Solar Cell with 10.5% Power Conversion Efficiency. *Advanced Energy Materials*, **2018**, 8, 1800529	21.8	71
127	Intrinsically stretchable, solution-processable functional poly(siloxane-imide)s for stretchable resistive memory applications. *Polymer Chemistry*, **2018**, 9, 5145-5154	4.9	19
126	Interlayer Modification Using Eco-friendly Glucose-Based Natural Polymers in Polymer Solar Cells. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 14621-14630	8.3	29
125	5,14-Diaryldiindeno[2,1- f:1R,2R-j]picene: A New Stable [7]Helicene with a Partial Biradical Character. *Journal of the American Chemical Society*, **2018**, 140, 14357-14366	16.4	50
124	Influence of polymeric electrets on the performance of derived hybrid perovskite-based photo-memory devices. *Nanoscale*, **2018**, 10, 18869-18877	7.7	40
123	Possible interfacial ion/charge accumulation in thin-film perovskite/fullerene surfactant planar heterojunction solar cells. *Journal Physics D: Applied Physics*, **2018**, 51, 504001	3	3
122	Electrospun Nanofibers: Uniform Luminous Perovskite Nanofibers with Color-Tunability and Improved Stability Prepared by One-Step Core/Shell Electrospinning (Small 22/2018). *Small*, **2018**, 14, 1870103	11	2
121	High-performance ternary polymer solar cells using wide-bandgap biaxially extended octithiophene-based conjugated polymers. *Journal of Materials Chemistry C*, **2018**, 6, 6920-6928	7.1	15
120	Interface Engineering for All-Inorganic CsPbI Br Perovskite Solar Cells with Efficiency over 14. *Advanced Materials*, **2018**, 30, e1802509	24	269
119	Ascorbic acid as an effective antioxidant additive to enhance the efficiency and stability of Pb/Sn-based binary perovskite solar cells. *Nano Energy*, **2017**, 34, 392-398	17.1	120
118	SrCl Derived Perovskite Facilitating a High Efficiency of 16% in Hole-Conductor-Free Fully Printable Mesoscopic Perovskite Solar Cells. *Advanced Materials*, **2017**, 29, 1606608	24	119
117	Low-temperature electrodeposited crystalline SnO2 as an efficient electron-transporting layer for conventional perovskite solar cells. *Solar Energy Materials and Solar Cells*, **2017**, 164, 47-55	6.4	57
116	High-Performance Near-IR Photodetector Using Low-Bandgap MA0.5FA0.5Pb0.5Sn0.5I3 Perovskite. *Advanced Functional Materials*, **2017**, 27, 1701053	15.6	77

115	Realizing a new class of hybrid organic–inorganic multifunctional perovskite. *Journal of Materials Chemistry A*, **2017**, 5, 10640-10650	13	23
114	A regioregular conjugated polymer for high performance thick-film organic solar cells without processing additive. *Journal of Materials Chemistry A*, **2017**, 5, 10517-10525	13	38
113	Nonvolatile Perovskite-Based Photomemory with a Multilevel Memory Behavior. *Advanced Materials*, **2017**, 29, 1702217	24	87
112	Spiro-Phenylpyrazole-9,9?-Thioxanthene Analogues as Hole-Transporting Materials for Efficient Planar Perovskite Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1700823	21.8	58
111	Doping Versatile n-Type Organic Semiconductors via Room Temperature Solution-Processable Anionic Dopants. *ACS Applied Materials & Interfaces*, **2017**, 9, 1136-1144	9.5	28
110	A Redox-Based Resistive Switching Memory Device Consisting of Organic–Inorganic Hybrid Perovskite/Polymer Composite Thin Film. *Advanced Electronic Materials*, **2017**, 3, 1700344	6.4	52
109	Defect Passivation via a Graded Fullerene Heterojunction in Low-Bandgap Pb–Sn Binary Perovskite Photovoltaics. *ACS Energy Letters*, **2017**, 2, 2531-2539	20.1	90
108	Effects of Self-Assembled Monolayer Modification of Nickel Oxide Nanoparticles Layer on the Performance and Application of Inverted Perovskite Solar Cells. *ChemSusChem*, **2017**, 10, 3794-3803	8.3	116
107	Enhanced Moisture Stability of Cesium-Containing Compositional Perovskites by a Feasible Interfacial Engineering. *Advanced Materials Interfaces*, **2017**, 4, 1700598	4.6	49
106	Boosting performance of inverted organic solar cells by using a planar coronene based electron-transporting layer. *Nano Energy*, **2017**, 39, 454-460	17.1	33
105	4-Tert-butylpyridine Free Organic Hole Transporting Materials for Stable and Efficient Planar Perovskite Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1700683	21.8	91
104	Intrinsically Stretchable Nanostructured Silver Electrodes for Realizing Efficient Strain Sensors and Stretchable Organic Photovoltaics. *ACS Applied Materials & Interfaces*, **2017**, 9, 27853-27862	9.5	24
103	Highly Efficient Porphyrin-Based OPV/Perovskite Hybrid Solar Cells with Extended Photoresponse and High Fill Factor. *Advanced Materials*, **2017**, 29, 1703980	24	148
102	Multi-state memristive behavior in a light-emitting electrochemical cell. *Journal of Materials Chemistry C*, **2017**, 5, 11421-11428	7.1	4
101	Mixed Cation FAxPEA1−xPbI3 with Enhanced Phase and Ambient Stability toward High-Performance Perovskite Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1601307	21.8	237
100	A stable, efficient textile-based flexible perovskite solar cell with improved washable and deployable capabilities for wearable device applications. *RSC Advances*, **2017**, 7, 54361-54368	3.7	35
99	Highly crystalline Zn2SnO4 nanoparticles as efficient electron-transporting layers toward stable inverted and flexible conventional perovskite solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 15294-15301	13	70
98	Stable Low-Bandgap Pb-Sn Binary Perovskites for Tandem Solar Cells. *Advanced Materials*, **2016**, 28, 8990-8997	21	254

97	Rational Design of Dipolar Chromophore as an Efficient Dopant-Free Hole-Transporting Material for Perovskite Solar Cells. *Journal of the American Chemical Society*, **2016**, 138, 11833-9	16.4	150
96	Improved Ambient-Stable Perovskite Solar Cells Enabled by a Hybrid Polymeric Electron-Transporting Layer. *ChemSusChem*, **2016**, 9, 2586-2591	8.3	24
95	Hierarchical Dual-Scaffolds Enhance Charge Separation and Collection for High Efficiency Semitransparent Perovskite Solar Cells. *Advanced Materials Interfaces*, **2016**, 3, 1600484	4.6	34
94	Stabilized Wide Bandgap Perovskite Solar Cells by Tin Substitution. *Nano Letters*, **2016**, 16, 7739-7747	11.5	155
93	A Low-Temperature, Solution-Processable Organic Electron-Transporting Layer Based on Planar Coronene for High-performance Conventional Perovskite Solar Cells. *Advanced Materials*, **2016**, 28, 10786-10793	24	91
92	Modulation of PEDOT:PSS pH for Efficient Inverted Perovskite Solar Cells with Reduced Potential Loss and Enhanced Stability. *ACS Applied Materials & Interfaces*, **2016**, 8, 32068-32076	9.5	132
91	Fluoroalkyl-substituted fullerene/perovskite heterojunction for efficient and ambient stable perovskite solar cells. *Nano Energy*, **2016**, 30, 417-425	17.1	61
90	Improved efficiency and stability of Pb‐Sn binary perovskite solar cells by Cs substitution. *Journal of Materials Chemistry A*, **2016**, 4, 17939-17945	13	115
89	Rigidifying Nonplanar Perylene Diimides by Ring Fusion Toward Geometry-Tunable Acceptors for High-Performance Fullerene-Free Solar Cells. *Advanced Materials*, **2016**, 28, 951-8	24	222
88	A Low-Temperature, Solution Processable Tin Oxide Electron-Transporting Layer Prepared by the Dual-Fuel Combustion Method for Efficient Perovskite Solar Cells. *Advanced Materials Interfaces*, **2016**, 3, 1600122	4.6	94
87	Manipulation of optical field distribution in ITO-free micro-cavity polymer tandem solar cells via the out-of-cell capping layer for high photovoltaic performance. *Journal of Materials Chemistry A*, **2016**, 4, 961-968	13	14
86	Current Challenges and Prospective Research for Upscaling Hybrid Perovskite Photovoltaics. *Journal of Physical Chemistry Letters*, **2016**, 7, 811-9	6.4	165
85	Effects of formamidinium and bromide ion substitution in methylammonium lead triiodide toward high-performance perovskite solar cells. *Nano Energy*, **2016**, 22, 328-337	17.1	152
84	Abnormal Current-Voltage Hysteresis Induced by Reverse Bias in Organic-Inorganic Hybrid Perovskite Photovoltaics. *Journal of Physical Chemistry Letters*, **2016**, 7, 995-1003	6.4	32
83	Design rules for the broad application of fast (. *RSC Advances*, **2016**, 6, 27475-27484	3.7	35
82	Hexaazatrinaphthylene Derivatives: Efficient Electron-Transporting Materials with Tunable Energy Levels for Inverted Perovskite Solar Cells. *Angewandte Chemie*, **2016**, 128, 9145-9149	3.6	14
81	Effects of a Molecular Monolayer Modification of NiO Nanocrystal Layer Surfaces on Perovskite Crystallization and Interface Contact toward Faster Hole Extraction and Higher Photovoltaic Performance. *Advanced Functional Materials*, **2016**, 26, 2950-2958	15.6	239
80	Enhanced Efficiency and Stability of Inverted Perovskite Solar Cells Using Highly Crystalline SnO2 Nanocrystals as the Robust Electron-Transporting Layer. *Advanced Materials*, **2016**, 28, 6478-84	24	382

79	Hexaazatrinaphthylene Derivatives: Efficient Electron-Transporting Materials with Tunable Energy Levels for Inverted Perovskite Solar Cells. *Angewandte Chemie - International Edition*, **2016**, 55, 8999-9003	16.4	94
78	Optical Enhancement via Electrode Designs for High-Performance Polymer Solar Cells. *Advanced Functional Materials*, **2016**, 26, 321-340	15.6	44
77	Large Grained Perovskite Solar Cells Derived from Single-Crystal Perovskite Powders with Enhanced Ambient Stability. *ACS Applied Materials & Interfaces*, **2016**, 8, 14513-20	9.5	54
76	Defect Passivation of Organic□Inorganic Hybrid Perovskites by Diammonium Iodide toward High-Performance Photovoltaic Devices. *ACS Energy Letters*, **2016**, 1, 757-763	20.1	237
75	A Room-Temperature Processable PDI-Based Electron-Transporting Layer for Enhanced Performance in PDI-Based Non-Fullerene Solar Cells. *Advanced Materials Interfaces*, **2016**, 3, 1600476	4.6	25
74	Facile Thiol-Ene Thermal Crosslinking Reaction Facilitated Hole-Transporting Layer for Highly Efficient and Stable Perovskite Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1601165	21.8	50
73	A PCBM Electron Transport Layer Containing Small Amounts of Dual Polymer Additives that Enables Enhanced Perovskite Solar Cell Performance. *Advanced Science*, **2016**, 3, 1500353	13.6	52
72	Enhanced Ambient Stability of Efficient Perovskite Solar Cells by Employing a Modified Fullerene Cathode Interlayer. *Advanced Science*, **2016**, 3, 1600027	13.6	74
71	Roles of Fullerene-Based Interlayers in Enhancing the Performance of Organometal Perovskite Thin-Film Solar Cells. *Advanced Energy Materials*, **2015**, 5, 1402321	21.8	255
70	Navigating Organo-Lead Halide Perovskite Phase Space via Nucleation Kinetics toward a Deeper Understanding of Perovskite Phase Transformations and Structure-Property Relationships. *Small*, **2015**, 11, 3088-96	11	47
69	Photovoltaic performance of ladder-type indacenodithieno[3,2-b]thiophene-based polymers with alkoxyphenyl side chains. *RSC Advances*, **2015**, 5, 26680-26685	3.7	7
68	High-Performance Fully Printable Perovskite Solar Cells via Blade-Coating Technique under the Ambient Condition. *Advanced Energy Materials*, **2015**, 5, 1500328	21.8	257
67	Fluoro-Substituted n-Type Conjugated Polymers for Additive-Free All-Polymer Bulk Heterojunction Solar Cells with High Power Conversion Efficiency of 6.71. *Advanced Materials*, **2015**, 27, 3310-7	24	400
66	High-performance hole-transporting layer-free conventional perovskite/fullerene heterojunction thin-film solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 9128-9132	13	48
65	Design of a versatile interconnecting layer for highly efficient series-connected polymer tandem solar cells. *Energy and Environmental Science*, **2015**, 8, 1712-1718	35.4	97
64	A conductive liquid crystal via facile doping of an n-type benzodifurandione derivative. *Journal of Materials Chemistry A*, **2015**, 3, 6929-6934	13	14
63	Room-temperature, solution-processable organic electron extraction layer for high-performance planar heterojunction perovskite solar cells. *Nanoscale*, **2015**, 7, 17343-9	7.7	62
62	Open-Circuit Voltage Losses in Selenium-Substituted Organic Photovoltaic Devices from Increased Density of Charge-Transfer States. *Chemistry of Materials*, **2015**, 27, 6583-6591	9.6	37

61	High performance inverted structure perovskite solar cells based on a PCBM:polystyrene blend electron transport layer. *Journal of Materials Chemistry A*, **2015**, 3, 9098-9102	13	160
60	Enhanced Light-Harvesting by Integrating Synergetic Microcavity and Plasmonic Effects for High-Performance ITO-Free Flexible Polymer Solar Cells. *Advanced Functional Materials*, **2015**, 25, 567-574	15.6	43
59	High-performance and environmentally stable planar heterojunction perovskite solar cells based on a solution-processed copper-doped nickel oxide hole-transporting layer. *Advanced Materials*, **2015**, 27, 695-701	24	655
58	Enhanced Environmental Stability of Planar Heterojunction Perovskite Solar Cells Based on Blade-Coating. *Advanced Energy Materials*, **2015**, 5, 1401229	21.8	278
57	The roles of alkyl halide additives in enhancing perovskite solar cell performance. *Journal of Materials Chemistry A*, **2015**, 3, 9058-9062	13	135
56	High-Performance Planar-Heterojunction Solar Cells Based on Ternary Halide Large-Band-Gap Perovskites. *Advanced Energy Materials*, **2015**, 5, 1400960	21.8	108
55	Interface and Nanostructural Engineering of Low-cost, Efficient and Stable Perovskite Solar Cells. *Materials Research Society Symposia Proceedings*, **2015**, 1771, 171-179		0
54	Perovskites: Navigating Organo-Lead Halide Perovskite Phase Space via Nucleation Kinetics toward a Deeper Understanding of Perovskite Phase Transformations and Structure□Property Relationships (Small 26/2015). *Small*, **2015**, 11, 3087-3087	11	4
53	Influence of Molecular Geometry of Perylene Diimide Dimers and Polymers on Bulk Heterojunction Morphology Toward High-Performance Nonfullerene Polymer Solar Cells. *Advanced Functional Materials*, **2015**, 25, 5326-5332	15.6	106
52	High-Performance Semitransparent Perovskite Solar Cells with 10% Power Conversion Efficiency and 25% Average Visible Transmittance Based on Transparent CuSCN as the Hole-Transporting Material. *Advanced Energy Materials*, **2015**, 5, 1500486	21.8	181
51	A Low-Temperature, Solution-Processable, Cu-Doped Nickel Oxide Hole-Transporting Layer via the Combustion Method for High-Performance Thin-Film Perovskite Solar Cells. *Advanced Materials*, **2015**, 27, 7874-80	24	348
50	10.4% Power Conversion Efficiency of ITO-Free Organic Photovoltaics Through Enhanced Light Trapping Configuration. *Advanced Energy Materials*, **2015**, 5, 1500406	21.8	150
49	Mesoporous SnO_2 single crystals as an effective electron collector for perovskite solar cells. *Physical Chemistry Chemical Physics*, **2015**, 17, 18265-8	3.6	74
48	Recent progress and perspective in solution-processed Interfacial materials for efficient and stable polymer and organometal perovskite solar cells. *Energy and Environmental Science*, **2015**, 8, 1160-1189	35.4	637
47	High performance nonvolatile transistor memories of pentacene using the electrets of star-branched p-type polymers and their donor□cceptor blends. *Journal of Materials Chemistry C*, **2014**, 2, 1436	7.1	38
46	Highly Efficient Inverted Organic Solar Cells Through Material and Interfacial Engineering of Indacenodithieno[3,2-b]thiophene-Based Polymers and Devices. *Advanced Functional Materials*, **2014**, 24, 1465-1473	15.6	120
45	A General Route to Enhance Polymer Solar Cell Performance using Plasmonic Nanoprisms. *Advanced Energy Materials*, **2014**, 4, 1400206	21.8	106
44	Additive enhanced crystallization of solution-processed perovskite for highly efficient planar-heterojunction solar cells. *Advanced Materials*, **2014**, 26, 3748-54	24	1242

43	Tetrathienodibenzocarbazole Based Donor–Acceptor Type Wide Band-Gap Copolymers for Polymer Solar Cell Applications. *Macromolecules*, **2014**, 47, 7407-7415	5.5	17
42	Polyfluorene Derivatives are High-Performance Organic Hole-Transporting Materials for Inorganic–Organic Hybrid Perovskite Solar Cells. *Advanced Functional Materials*, **2014**, 24, 7357-7365	15.6	150
41	Role of chloride in the morphological evolution of organo-lead halide perovskite thin films. *ACS Nano*, **2014**, 8, 10640-54	16.7	328
40	Microcavity-enhanced light-trapping for highly efficient organic parallel tandem solar cells. *Advanced Materials*, **2014**, 26, 6778-84	24	81
39	High-Performance Hole-Extraction Layer of Sol–Gel-Processed NiO Nanocrystals for Inverted Planar Perovskite Solar Cells. *Angewandte Chemie*, **2014**, 126, 12779-12783	3.6	158
38	Binary-metal perovskites toward high-performance planar-heterojunction hybrid solar cells. *Advanced Materials*, **2014**, 26, 6454-60	24	259
37	Suppressed charge recombination in inverted organic photovoltaics via enhanced charge extraction by using a conductive fullerene electron transport layer. *Advanced Materials*, **2014**, 26, 6262-7	24	198
36	High-performance hole-extraction layer of sol-gel-processed NiO nanocrystals for inverted planar perovskite solar cells. *Angewandte Chemie - International Edition*, **2014**, 53, 12571-5	16.4	121
35	Multilevel nonvolatile flexible organic field-effect transistor memories employing polyimide electrets with different charge-transfer effects. *Macromolecular Rapid Communications*, **2014**, 35, 1039-45	4.8	28
34	Efficiency enhancement of perovskite solar cells through fast electron extraction: the role of graphene quantum dots. *Journal of the American Chemical Society*, **2014**, 136, 3760-3	16.4	590
33	Integrated molecular, interfacial, and device engineering towards high-performance non-fullerene based organic solar cells. *Advanced Materials*, **2014**, 26, 5708-14	24	366
32	Close-Packed Colloidal SiO2as a Nanoreactor: Generalized Synthesis of Metal Oxide Mesoporous Single Crystals and Mesocrystals. *Chemistry of Materials*, **2014**, 26, 5700-5709	9.6	36
31	Semi-conjugated acceptor-based polyimides as electrets for nonvolatile transistor memory devices. *Polymer Chemistry*, **2014**, 5, 6834-6846	4.9	14
30	Strong photocurrent enhancements in highly efficient flexible organic solar cells by adopting a microcavity configuration. *Advanced Materials*, **2014**, 26, 3349-54	24	61
29	Side-Chain Effect on Cyclopentadithiophene/Fluorobenzothiadiazole-Based Low Band Gap Polymers and Their Applications for Polymer Solar Cells. *Macromolecules*, **2013**, 46, 5497-5503	5.5	89
28	Non-halogenated solvents for environmentally friendly processing of high-performance bulk-heterojunction polymer solar cells. *Energy and Environmental Science*, **2013**, 6, 3241	35.4	160
27	Toward High-Performance Semi-Transparent Polymer Solar Cells: Optimization of Ultra-Thin Light Absorbing Layer and Transparent Cathode Architecture. *Advanced Energy Materials*, **2013**, 3, 417-423	21.8	123
26	Doping of fullerenes via anion-induced electron transfer and its implication for surfactant facilitated high performance polymer solar cells. *Advanced Materials*, **2013**, 25, 4425-30	24	220

25	Indacenodithieno[3,2-b]thiophene-based broad bandgap polymers for high efficiency polymer solar cells. *Polymer Chemistry*, **2013**, 4, 5220	4.9	42
24	Solution-processible highly conducting fullerenes. *Advanced Materials*, **2013**, 25, 2457-61	24	113
23	High-Efficiency Polymer Solar Cells Achieved by Doping Plasmonic Metallic Nanoparticles into Dual Charge Selecting Interfacial Layers to Enhance Light Trapping. *Advanced Energy Materials*, **2013**, 3, 666-673	21.8	109
22	Evaluation of structure□roperty relationships of solution-processible fullerene acceptors and their n-channel field-effect transistor performance. *Journal of Materials Chemistry*, **2012**, 22, 14976		42
21	Effective interfacial layer to enhance efficiency of polymer solar cells via solution-processed fullerene-surfactants. *Journal of Materials Chemistry*, **2012**, 22, 8574		149
20	Optical design of transparent thin metal electrodes to enhance in-coupling and trapping of light in flexible polymer solar cells. *Advanced Materials*, **2012**, 24, 6362-7	24	115
19	Improved charge transport and absorption coefficient in indacenodithieno[3,2-b]thiophene-based ladder-type polymer leading to highly efficient polymer solar cells. *Advanced Materials*, **2012**, 24, 6356-61	24	319
18	Infrared proximity sensor using organic light-emitting diode with quantum dots converter. *Organic Electronics*, **2012**, 13, 2312-2318	3.5	6
17	High-Performance Inverted Polymer Solar Cells: Device Characterization, Optical Modeling, and Hole-Transporting Modifications. *Advanced Functional Materials*, **2012**, 22, 2804-2811	15.6	56
16	Facile synthesis of a 56□electron 1,2-dihydromethano-[60]PCBM and its application for thermally stable polymer solar cells. *Chemical Communications*, **2011**, 47, 10082-4	5.8	86
15	High Performance Volatile Polymeric Memory Devices Based on Novel Triphenylamine-based Polyimides Containing Mono- or Dual-Mediated Phenoxy Linkages. *Macromolecules*, **2010**, 43, 1236-1244	5.5	145
14	Syntheses of New 3,6-Carbazole-Based Donor/Acceptor Conjugated Copolymers for Optoelectronic Device Applications. *Macromolecular Chemistry and Physics*, **2010**, 211, 2017-2025	2.6	33
13	Syntheses, properties, and field-effect transistors of small band gap quinoxaline- and thienopyrazine-vinylene/ethynylene conjugated polymers. *Journal of Polymer Science Part A*, **2010**, 48, 74-81	2.5	14
12	New thiophene-phenylene-thiophene acceptor random conjugated copolymers for optoelectronic applications. *Journal of Polymer Science Part A*, **2010**, 48, 2351-2360	2.5	35
11	High hole mobility from thiophene-thienopyrazine copolymer based thin film transistors. *Journal of Polymer Research*, **2009**, 16, 239-244	2.7	5
10	Synthesis and properties of new dialkoxyphenylene quinoxaline-based donor-acceptor conjugated polymers and their applications on thin film transistors and solar cells. *Journal of Polymer Science Part A*, **2009**, 47, 973-985	2.5	40
9	New P-type of poly(4-methoxy-triphenylamine)s derived by coupling reactions: Synthesis, electrochromic behaviors, and hole mobility. *Journal of Polymer Science Part A*, **2009**, 47, 4037-4050	2.5	22
8	All-conjugated diblock copolymer of poly(3-hexylthiophene)-block-poly(3-phenoxymethylthiophene) for field-effect transistor and photovoltaic applications. *Organic Electronics*, **2009**, 10, 1541-1548	3.5	44

7	Synthesis and Memory Device Characteristics of New Sulfur Donor Containing Polyimides. *Macromolecules*, **2009**, 42, 4456-4463	5.5	142
6	Synthesis of New Indolocarbazole-Acceptor Alternating Conjugated Copolymers and Their Applications to Thin Film Transistors and Photovoltaic Cells. *Macromolecules*, **2009**, 42, 1897-1905	5.5	113
5	Synthesis, properties, and field effect transistor characteristics of new thiophene-[1,2,5]thiadiazolo[3,4-g]quinoxaline-thiophene-based conjugated polymers. *Journal of Polymer Science Part A*, **2008**, 46, 6305-6316	2.5	29
4	Synthesis of New Fluorene-Indolocarbazole Alternating Copolymers for Light-Emitting Diodes and Field Effect Transistors. *Polymer Journal*, **2008**, 40, 249-255	2.7	21
3	Effects of Acceptors on the Electronic and Optoelectronic Properties of Fluorene-Based DonorAcceptorDonor Copolymers. *Macromolecular Chemistry and Physics*, **2007**, 208, 1919-1927	2.6	52
2	Interfacial Engineering of Wide-Bandgap Perovskites for Efficient Perovskite/CZTSSe Tandem Solar Cells. *Advanced Functional Materials*,2107359	15.6	10
1	Interface Engineering for All-Inorganic CsPbIBr2 Perovskite Solar Cells with Enhanced Power Conversion Efficiency over 11%. *Energy Technology*,2100562	3.5	5