Chu-Chen Chueh

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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.

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#	Paper	IF	Citations
258	Additive enhanced crystallization of solution-processed perovskite for highly efficient planar-heterojunction solar cells. <i>Advanced Materials</i> , 2014 , 26, 3748-54	24	1242
257	Nonfullerene Acceptor Molecules for Bulk Heterojunction Organic Solar Cells. <i>Chemical Reviews</i> , 2018 , 118, 3447-3507	68.1	1051
256	High-performance and environmentally stable planar heterojunction perovskite solar cells based on a solution-processed copper-doped nickel oxide hole-transporting layer. <i>Advanced Materials</i> , 2015 , 27, 695-701	24	655
255	Recent progress and perspective in solution-processed Interfacial materials for efficient and stable polymer and organometal perovskite solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 1160-1189	35.4	637
254	Efficiency enhancement of perovskite solar cells through fast electron extraction: the role of graphene quantum dots. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3760-3	16.4	590
253	Fluoro-Substituted n-Type Conjugated Polymers for Additive-Free All-Polymer Bulk Heterojunction Solar Cells with High Power Conversion Efficiency of 6.71. <i>Advanced Materials</i> , 2015 , 27, 3310-7	24	400
252	Enhanced Efficiency and Stability of Inverted Perovskite Solar Cells Using Highly Crystalline SnO2 Nanocrystals as the Robust Electron-Transporting Layer. <i>Advanced Materials</i> , 2016 , 28, 6478-84	24	382
251	Integrated molecular, interfacial, and device engineering towards high-performance non-fullerene based organic solar cells. <i>Advanced Materials</i> , 2014 , 26, 5708-14	24	366
250	A Low-Temperature, Solution-Processable, Cu-Doped Nickel Oxide Hole-Transporting Layer via the Combustion Method for High-Performance Thin-Film Perovskite Solar Cells. <i>Advanced Materials</i> , 2015 , 27, 7874-80	24	348
249	Role of chloride in the morphological evolution of organo-lead halide perovskite thin films. <i>ACS Nano</i> , 2014 , 8, 10640-54	16.7	328
248	Improved charge transport and absorption coefficient in indacenodithieno[3,2-b]thiophene-based ladder-type polymer leading to highly efficient polymer solar cells. <i>Advanced Materials</i> , 2012 , 24, 6356-0	6 1 4	319
247	Enhanced Environmental Stability of Planar Heterojunction Perovskite Solar Cells Based on Blade-Coating. <i>Advanced Energy Materials</i> , 2015 , 5, 1401229	21.8	278
246	Interface Engineering for All-Inorganic CsPbI Br Perovskite Solar Cells with Efficiency over 14. <i>Advanced Materials</i> , 2018 , 30, e1802509	24	269
245	Binary-metal perovskites toward high-performance planar-heterojunction hybrid solar cells. <i>Advanced Materials</i> , 2014 , 26, 6454-60	24	259
244	High-Performance Fully Printable Perovskite Solar Cells via Blade-Coating Technique under the Ambient Condition. <i>Advanced Energy Materials</i> , 2015 , 5, 1500328	21.8	257
243	Roles of Fullerene-Based Interlayers in Enhancing the Performance of Organometal Perovskite Thin-Film Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1402321	21.8	255
242	Stable Low-Bandgap Pb-Sn Binary Perovskites for Tandem Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 899	9 0 -β99	7 254

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241	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. <i>Advanced Functional Materials</i> , 2016 , 26, 2950-2958	15.6	239
240	Mixed Cation FAxPEA1NPb13 with Enhanced Phase and Ambient Stability toward High-Performance Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1601307	21.8	237
239	Defect Passivation of OrganicIhorganic Hybrid Perovskites by Diammonium Iodide toward High-Performance Photovoltaic Devices. <i>ACS Energy Letters</i> , 2016 , 1, 757-763	20.1	237
238	Rigidifying Nonplanar Perylene Diimides by Ring Fusion Toward Geometry-Tunable Acceptors for High-Performance Fullerene-Free Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 951-8	24	222
237	Doping of fullerenes via anion-induced electron transfer and its implication for surfactant facilitated high performance polymer solar cells. <i>Advanced Materials</i> , 2013 , 25, 4425-30	24	220
236	Highly efficient all-inorganic perovskite solar cells with suppressed non-radiative recombination by a Lewis base. <i>Nature Communications</i> , 2020 , 11, 177	17.4	200
235	Suppressed charge recombination in inverted organic photovoltaics via enhanced charge extraction by using a conductive fullerene electron transport layer. <i>Advanced Materials</i> , 2014 , 26, 6262-7	24	198
234	Regulating Surface Termination for Efficient Inverted Perovskite Solar Cells with Greater Than 23% Efficiency. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20134-20142	16.4	185
233	Harnessing MOF materials in photovoltaic devices: recent advances, challenges, and perspectives. Journal of Materials Chemistry A, 2019 , 7, 17079-17095	13	182
232	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. <i>Advanced Energy Materials</i> , 2015 , 5, 1500486	21.8	181
231	Current Challenges and Prospective Research for Upscaling Hybrid Perovskite Photovoltaics. Journal of Physical Chemistry Letters, 2016 , 7, 811-9	6.4	165
230	High performance inverted structure perovskite solar cells based on a PCBM:polystyrene blend electron transport layer. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9098-9102	13	160
229	Non-halogenated solvents for environmentally friendly processing of high-performance bulk-heterojunction polymer solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 3241	35.4	160
228	High-Performance Hole-Extraction Layer of Sol G el-Processed NiO Nanocrystals for Inverted Planar Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2014 , 126, 12779-12783	3.6	158
227	Stabilized Wide Bandgap Perovskite Solar Cells by Tin Substitution. <i>Nano Letters</i> , 2016 , 16, 7739-7747	11.5	155
226	Inorganic CsPb1⊠SnxIBr2 for Efficient Wide-Bandgap Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1800525	21.8	154
225	Effects of formamidinium and bromide ion substitution in methylammonium lead triiodide toward high-performance perovskite solar cells. <i>Nano Energy</i> , 2016 , 22, 328-337	17.1	152
224	Realizing Efficient Lead-Free Formamidinium Tin Triiodide Perovskite Solar Cells via a Sequential Deposition Route. <i>Advanced Materials</i> , 2018 , 30, 1703800	24	151

223	Rational Design of Dipolar Chromophore as an Efficient Dopant-Free Hole-Transporting Material for Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11833-9	16.4	150
222	Polyfluorene Derivatives are High-Performance Organic Hole-Transporting Materials for Inorganic Drganic Hybrid Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2014 , 24, 7357-7365	15.6	150
221	10.4% Power Conversion Efficiency of ITO-Free Organic Photovoltaics Through Enhanced Light Trapping Configuration. <i>Advanced Energy Materials</i> , 2015 , 5, 1500406	21.8	150
220	Effective interfacial layer to enhance efficiency of polymer solar cells via solution-processed fullerene-surfactants. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8574		149
219	Highly Efficient Porphyrin-Based OPV/Perovskite Hybrid Solar Cells with Extended Photoresponse and High Fill Factor. <i>Advanced Materials</i> , 2017 , 29, 1703980	24	148
218	High Performance Volatile Polymeric Memory Devices Based on Novel Triphenylamine-based Polyimides Containing Mono- or Dual-Mediated Phenoxy Linkages. <i>Macromolecules</i> , 2010 , 43, 1236-1244	₄ 5.5	145
217	Modulation of Defects and Interfaces through Alkylammonium Interlayer for Efficient Inverted Perovskite Solar Cells. <i>Joule</i> , 2020 , 4, 1248-1262	27.8	143
216	Synthesis and Memory Device Characteristics of New Sulfur Donor Containing Polyimides. <i>Macromolecules</i> , 2009 , 42, 4456-4463	5.5	142
215	A Non-fullerene Acceptor with Enhanced Intermolecular ECore Interaction for High-Performance Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15246-15251	16.4	138
214	The roles of alkyl halide additives in enhancing perovskite solar cell performance. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9058-9062	13	135
213	Modulation of PEDOT:PSS pH for Efficient Inverted Perovskite Solar Cells with Reduced Potential Loss and Enhanced Stability. <i>ACS Applied Materials & District Science</i> , 2016 , 8, 32068-32076	9.5	132
212	Toward High-Performance Semi-Transparent Polymer Solar Cells: Optimization of Ultra-Thin Light Absorbing Layer and Transparent Cathode Architecture. <i>Advanced Energy Materials</i> , 2013 , 3, 417-423	21.8	123
211	High-performance hole-extraction layer of sol-gel-processed NiO nanocrystals for inverted planar perovskite solar cells. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12571-5	16.4	121
210	Ascorbic acid as an effective antioxidant additive to enhance the efficiency and stability of Pb/Sn-based binary perovskite solar cells. <i>Nano Energy</i> , 2017 , 34, 392-398	17.1	120
209	Dopant-Free Organic Hole-Transporting Material for Efficient and Stable Inverted All-Inorganic and Hybrid Perovskite Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e1908011	24	120
208	Highly Efficient Inverted Organic Solar Cells Through Material and Interfacial Engineering of Indacenodithieno[3,2-b]thiophene-Based Polymers and Devices. <i>Advanced Functional Materials</i> , 2014 , 24, 1465-1473	15.6	120
207	SrCl Derived Perovskite Facilitating a High Efficiency of 16% in Hole-Conductor-Free Fully Printable Mesoscopic Perovskite Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1606608	24	119
206	2D metal-organic framework for stable perovskite solar cells with minimized lead leakage. <i>Nature Nanotechnology</i> , 2020 , 15, 934-940	28.7	119

205	Effects of Self-Assembled Monolayer Modification of Nickel Oxide Nanoparticles Layer on the Performance and Application of Inverted Perovskite Solar Cells. <i>ChemSusChem</i> , 2017 , 10, 3794-3803	8.3	116
204	Improved efficiency and stability of PbBn binary perovskite solar cells by Cs substitution. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17939-17945	13	115
203	Optical design of transparent thin metal electrodes to enhance in-coupling and trapping of light in flexible polymer solar cells. <i>Advanced Materials</i> , 2012 , 24, 6362-7	24	115
202	Solution-processible highly conducting fullerenes. <i>Advanced Materials</i> , 2013 , 25, 2457-61	24	113
201	Synthesis of New Indolocarbazole-Acceptor Alternating Conjugated Copolymers and Their Applications to Thin Film Transistors and Photovoltaic Cells. <i>Macromolecules</i> , 2009 , 42, 1897-1905	5.5	113
200	High Efficiency (15.8%) All-Polymer Solar Cells Enabled by a Regioregular Narrow Bandgap Polymer Acceptor. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2665-2670	16.4	112
199	High-Efficiency Polymer Solar Cells Achieved by Doping Plasmonic Metallic Nanoparticles into Dual Charge Selecting Interfacial Layers to Enhance Light Trapping. <i>Advanced Energy Materials</i> , 2013 , 3, 666-6	6 73 8	109
198	High-Performance Planar-Heterojunction Solar Cells Based on Ternary Halide Large-Band-Gap Perovskites. <i>Advanced Energy Materials</i> , 2015 , 5, 1400960	21.8	108
197	A General Route to Enhance Polymer Solar Cell Performance using Plasmonic Nanoprisms. <i>Advanced Energy Materials</i> , 2014 , 4, 1400206	21.8	106
196	Influence of Molecular Geometry of Perylene Diimide Dimers and Polymers on Bulk Heterojunction Morphology Toward High-Performance Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 5326-5332	15.6	106
195	Enhancing Efficiency and Stability of Photovoltaic Cells by Using Perovskite/Zr-MOF Heterojunction Including Bilayer and Hybrid Structures. <i>Advanced Science</i> , 2019 , 6, 1801715	13.6	104
194	Low-Temperature Solution-Processed CuCrO2 Hole-Transporting Layer for Efficient and Photostable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1702762	21.8	100
193	Design of a versatile interconnecting layer for highly efficient series-connected polymer tandem solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 1712-1718	35.4	97
192	A Low-Temperature, Solution Processable Tin Oxide Electron-Transporting Layer Prepared by the Dual-Fuel Combustion Method for Efficient Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600122	4.6	94
191	Hexaazatrinaphthylene Derivatives: Efficient Electron-Transporting Materials with Tunable Energy Levels for Inverted Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8999-900	0 ^{16.4}	94
190	A Low-Temperature, Solution-Processable Organic Electron-Transporting Layer Based on Planar Coronene for High-performance Conventional Perovskite Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 1078	8 ² 6107	793 ¹
189	4-Tert-butylpyridine Free Organic Hole Transporting Materials for Stable and Efficient Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700683	21.8	91
188	Defect Passivation via a Graded Fullerene Heterojunction in Low-Bandgap Pb\(\bar{B} \)n Binary Perovskite Photovoltaics. ACS Energy Letters, 2017, 2, 2531-2539	20.1	90

187	Side-Chain Effect on Cyclopentadithiophene/Fluorobenzothiadiazole-Based Low Band Gap Polymers and Their Applications for Polymer Solar Cells. <i>Macromolecules</i> , 2013 , 46, 5497-5503	5.5	89
186	Nonvolatile Perovskite-Based Photomemory with a Multilevel Memory Behavior. <i>Advanced Materials</i> , 2017 , 29, 1702217	24	87
185	Fluoranthene-based dopant-free hole transporting materials for efficient perovskite solar cells. <i>Chemical Science</i> , 2018 , 9, 2698-2704	9.4	87
184	Facile synthesis of a 56Eelectron 1,2-dihydromethano-[60]PCBM and its application for thermally stable polymer solar cells. <i>Chemical Communications</i> , 2011 , 47, 10082-4	5.8	86
183	Efficient large guanidinium mixed perovskite solar cells with enhanced photovoltage and low energy losses. <i>Chemical Communications</i> , 2019 , 55, 4315-4318	5.8	85
182	Highly Efficient and Stable Perovskite Solar Cells Enabled by All-Crosslinked Charge-Transporting Layers. <i>Joule</i> , 2018 , 2, 168-183	27.8	84
181	Dopant-Free Squaraine-Based Polymeric Hole-Transporting Materials with Comprehensive Passivation Effects for Efficient All-Inorganic Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17724-17730	16.4	83
180	Recent advances in molecular design of functional conjugated polymers for high-performance polymer solar cells. <i>Progress in Polymer Science</i> , 2019 , 99, 101175	29.6	83
179	Microcavity-enhanced light-trapping for highly efficient organic parallel tandem solar cells. <i>Advanced Materials</i> , 2014 , 26, 6778-84	24	81
178	Organometallic-functionalized interfaces for highly efficient inverted perovskite solar cells <i>Science</i> , 2022 , 376, 416-420	33.3	81
177	Over 17% Efficiency Binary Organic Solar Cells with Photoresponses Reaching 1000 nm Enabled by Selenophene-Fused Nonfullerene Acceptors. <i>ACS Energy Letters</i> , 2021 , 6, 9-15	20.1	79
176	High-Performance Near-IR Photodetector Using Low-Bandgap MA0.5FA0.5Pb0.5Sn0.5I3 Perovskite. <i>Advanced Functional Materials</i> , 2017 , 27, 1701053	15.6	77
175	A 0D/3D Heterostructured All-Inorganic Halide Perovskite Solar Cell with High Performance and Enhanced Phase Stability. <i>Advanced Materials</i> , 2019 , 31, e1904735	24	77
174	Mesoporous SnOßingle crystals as an effective electron collector for perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 18265-8	3.6	74
173	Enhanced Ambient Stability of Efficient Perovskite Solar Cells by Employing a Modified Fullerene Cathode Interlayer. <i>Advanced Science</i> , 2016 , 3, 1600027	13.6	74
172	A Nonfullerene Semitransparent Tandem Organic Solar Cell with 10.5% Power Conversion Efficiency. <i>Advanced Energy Materials</i> , 2018 , 8, 1800529	21.8	71
171	Highly crystalline Zn2SnO4 nanoparticles as efficient electron-transporting layers toward stable inverted and flexible conventional perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1529	94 ⁻ 1530	07°
170	Uniform Luminous Perovskite Nanofibers with Color-Tunability and Improved Stability Prepared by One-Step Core/Shell Electrospinning. <i>Small</i> , 2018 , 14, e1704379	11	68

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169	Advances and challenges of green materials for electronics and energy storage applications: from design to end-of-life recovery. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20546-20563	13	65
168	Tunable Band Gap and Long Carrier Recombination Lifetime of Stable Mixed CH3NH3PbxSn1⊠Br3 Single Crystals. <i>Chemistry of Materials</i> , 2018 , 30, 1556-1565	9.6	63
167	Room-temperature, solution-processable organic electron extraction layer for high-performance planar heterojunction perovskite solar cells. <i>Nanoscale</i> , 2015 , 7, 17343-9	7.7	62
166	Boosting Photovoltaic Performance for Lead Halide Perovskites Solar Cells with BF4[Anion Substitutions. <i>Advanced Functional Materials</i> , 2019 , 29, 1808833	15.6	62
165	Fluoroalkyl-substituted fullerene/perovskite heterojunction for efficient and ambient stable perovskite solar cells. <i>Nano Energy</i> , 2016 , 30, 417-425	17.1	61
164	Strong photocurrent enhancements in highly efficient flexible organic solar cells by adopting a microcavity configuration. <i>Advanced Materials</i> , 2014 , 26, 3349-54	24	61
163	Asymmetric Acceptors Enabling Organic Solar Cells to Achieve an over 17% Efficiency: Conformation Effects on Regulating Molecular Properties and Suppressing Nonradiative Energy Loss. <i>Advanced Energy Materials</i> , 2021 , 11, 2003177	21.8	61
162	Spiro-Phenylpyrazole-9,9?-Thioxanthene Analogues as Hole-Transporting Materials for Efficient Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700823	21.8	58
161	Exploitation of two-dimensional conjugated covalent organic frameworks based on tetraphenylethylene with bicarbazole and pyrene units and applications in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11448-11459	13	58
160	Low-temperature electrodeposited crystalline SnO2 as an efficient electron-transporting layer for conventional perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 164, 47-55	6.4	57
159	High-Performance Inverted Polymer Solar Cells: Device Characterization, Optical Modeling, and Hole-Transporting Modifications. <i>Advanced Functional Materials</i> , 2012 , 22, 2804-2811	15.6	56
158	A Generally Applicable Approach Using Sequential Deposition to Enable Highly Efficient Organic Solar Cells. <i>Small Methods</i> , 2020 , 4, 2000687	12.8	56
157	Multi-Selenophene-Containing Narrow Bandgap Polymer Acceptors for All-Polymer Solar Cells with over 15 % Efficiency and High Reproducibility. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 159	35-159	94 ⁵ 3 ⁴
156	Large Grained Perovskite Solar Cells Derived from Single-Crystal Perovskite Powders with Enhanced Ambient Stability. <i>ACS Applied Materials & Amp; Interfaces</i> , 2016 , 8, 14513-20	9.5	54
155	A Redox-Based Resistive Switching Memory Device Consisting of Organic Ihorganic Hybrid Perovskite/Polymer Composite Thin Film. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700344	6.4	52
154	A Dopant-Free Polymeric Hole-Transporting Material Enabled High Fill Factor Over 81% for Highly Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1902600	21.8	52
153	Effects of Acceptors on the Electronic and Optoelectronic Properties of Fluorene-Based Donor Acceptor Donor Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2007 , 208, 1919-1927	2.6	52
152	Vertical Orientated Dion l acobson Quasi-2D Perovskite Film with Improved Photovoltaic Performance and Stability. <i>Small Methods</i> , 2020 , 4, 1900831	12.8	52

151	A PCBM Electron Transport Layer Containing Small Amounts of Dual Polymer Additives that Enables Enhanced Perovskite Solar Cell Performance. <i>Advanced Science</i> , 2016 , 3, 1500353	13.6	52
150	Facile Thiol-Ene Thermal Crosslinking Reaction Facilitated Hole-Transporting Layer for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1601165	21.8	50
149	5,14-Diaryldiindeno[2,1- f:1R2Rj]picene: A New Stable [7]Helicene with a Partial Biradical Character. Journal of the American Chemical Society, 2018 , 140, 14357-14366	16.4	50
148	Enhanced Moisture Stability of Cesium-Containing Compositional Perovskites by a Feasible Interfacial Engineering. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700598	4.6	49
147	High-performance hole-transporting layer-free conventional perovskite/fullerene heterojunction thin-film solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9128-9132	13	48
146	Improved Efficiency and Stability of Pb/Sn Binary Perovskite Solar Cells Fabricated by Galvanic Displacement Reaction. <i>Advanced Energy Materials</i> , 2019 , 9, 1802774	21.8	48
145	Navigating Organo-Lead Halide Perovskite Phase Space via Nucleation Kinetics toward a Deeper Understanding of Perovskite Phase Transformations and Structure-Property Relationships. <i>Small</i> , 2015 , 11, 3088-96	11	47
144	All-conjugated diblock copolymer of poly(3-hexylthiophene) for field-effect transistor and photovoltaic applications. <i>Organic Electronics</i> , 2009 , 10, 1541-1548	3.5	44
143	Optical Enhancement via Electrode Designs for High-Performance Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2016 , 26, 321-340	15.6	44
142	Enhanced Light-Harvesting by Integrating Synergetic Microcavity and Plasmonic Effects for High-Performance ITO-Free Flexible Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 567-5	574 ^{5.6}	43
141	Composition Engineering of All-Inorganic Perovskite Film for Efficient and Operationally Stable Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2001764	15.6	42
140	Evaluation of structureproperty relationships of solution-processible fullerene acceptors and their n-channel field-effect transistor performance. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14976		42
139	Indacenodithieno[3,2-b]thiophene-based broad bandgap polymers for high efficiency polymer solar cells. <i>Polymer Chemistry</i> , 2013 , 4, 5220	4.9	42
138	Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridine-Based Dopant-Free Polymer Semiconductor. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7227-7233	16.4	42
137	Synthesis and properties of new dialkoxyphenylene quinoxaline-based donor-acceptor conjugated polymers and their applications on thin film transistors and solar cells. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 973-985	2.5	40
136	Influence of polymeric electrets on the performance of derived hybrid perovskite-based photo-memory devices. <i>Nanoscale</i> , 2018 , 10, 18869-18877	7.7	40
135	A regioregular conjugated polymer for high performance thick-film organic solar cells without processing additive. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10517-10525	13	38
134	High performance nonvolatile transistor memories of pentacene using the electrets of star-branched p-type polymers and their donoracceptor blends. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1436	7.1	38

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133	Stretchable and Ambient Stable Perovskite/Polymer Luminous Hybrid Nanofibers of Multicolor Fiber Mats and Their White LED Applications. <i>ACS Applied Materials & Company Interfaces</i> , 2019 , 11, 23605-2	3 6 :75	37	
132	Open-Circuit Voltage Losses in Selenium-Substituted Organic Photovoltaic Devices from Increased Density of Charge-Transfer States. <i>Chemistry of Materials</i> , 2015 , 27, 6583-6591	9.6	37	
131	Hybrid Perovskite-Organic Flexible Tandem Solar Cell Enabling Highly Efficient Electrocatalysis Overall Water Splitting. <i>Advanced Energy Materials</i> , 2020 , 10, 2000361	21.8	37	
130	Boosting the Performance of Environmentally Friendly Quantum Dot-Sensitized Solar Cells over 13% Efficiency by Dual Sensitizers with Cascade Energy Structure. <i>Advanced Materials</i> , 2019 , 31, e1903	6 98	37	
129	Realization of Intrinsically Stretchable Organic Solar Cells Enabled by Charge-Extraction Layer and Photoactive Material Engineering. <i>ACS Applied Materials & amp; Interfaces</i> , 2018 , 10, 21712-21720	9.5	36	
128	Efficient and UV-stable perovskite solar cells enabled by side chain-engineered polymeric hole-transporting layers. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12999-13004	13	36	
127	Close-Packed Colloidal SiO2as a Nanoreactor: Generalized Synthesis of Metal Oxide Mesoporous Single Crystals and Mesocrystals. <i>Chemistry of Materials</i> , 2014 , 26, 5700-5709	9.6	36	
126	Design rules for the broad application of fast (. RSC Advances, 2016, 6, 27475-27484	3.7	35	
125	Asymmetric Side-Chain Engineering of Isoindigo-Based Polymers for Improved Stretchability and Applications in Field-Effect Transistors. <i>ACS Applied Materials & Description of Stretchability and Applications in Field-Effect Transistors.</i>	9.5	35	
124	New thiophene-phenylene-thiophene acceptor random conjugated copolymers for optoelectronic applications. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 2351-2360	2.5	35	
123	A stable, efficient textile-based flexible perovskite solar cell with improved washable and deployable capabilities for wearable device applications. <i>RSC Advances</i> , 2017 , 7, 54361-54368	3.7	35	
122	Dopant-free dicyanofluoranthene-based hole transporting material with low cost enables efficient flexible perovskite solar cells. <i>Nano Energy</i> , 2021 , 82, 105701	17.1	35	
121	Hierarchical Dual-Scaffolds Enhance Charge Separation and Collection for High Efficiency Semitransparent Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600484	4.6	34	
120	Boosting performance of inverted organic solar cells by using a planar coronene based electron-transporting layer. <i>Nano Energy</i> , 2017 , 39, 454-460	17.1	33	
119	Syntheses of New 3,6-Carbazole-Based Donor/Acceptor Conjugated Copolymers for Optoelectronic Device Applications. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 2017-2025	2.6	33	
118	Abnormal Current-Voltage Hysteresis Induced by Reverse Bias in Organic-Inorganic Hybrid Perovskite Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 995-1003	6.4	32	
117	Minimized surface deficiency on wide-bandgap perovskite for efficient indoor photovoltaics. <i>Nano Energy</i> , 2020 , 78, 105377	17.1	32	
116	Study on Intrinsic Stretchability of Diketopyrrolopyrrole-Based EConjugated Copolymers with Poly(acryl amide) Side Chains for Organic Field-Effect Transistors. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 33014-33027	9.5	31	

115	Enhancing efficiency of perovskite solar cells by reducing defects through imidazolium cation incorporation. <i>Materials Today Energy</i> , 2018 , 7, 161-168	7	31
114	Improving Performance of Perovskite Solar Cells Using [7]Helicenes with Stable Partial Biradical Characters as the Hole-Extraction Layers. <i>Advanced Functional Materials</i> , 2019 , 29, 1808625	15.6	29
113	Dopant-Free Crossconjugated Hole-Transporting Polymers for Highly Efficient Perovskite Solar Cells. <i>Advanced Science</i> , 2020 , 7, 1903331	13.6	29
112	Bio-Based Transparent Conductive Film Consisting of Polyethylene Furanoate and Silver Nanowires for Flexible Optoelectronic Devices. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800271	4.8	29
111	Synthesis, properties, and field effect transistor characteristics of new thiophene-[1,2,5]thiadiazolo[3,4-g]quinoxaline-thiophene-based conjugated polymers. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 6305-6316	2.5	29
110	Interlayer Modification Using Eco-friendly Glucose-Based Natural Polymers in Polymer Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 14621-14630	8.3	29
109	Doping Versatile n-Type Organic Semiconductors via Room Temperature Solution-Processable Anionic Dopants. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 1136-1144	9.5	28
108	Multilevel nonvolatile flexible organic field-effect transistor memories employing polyimide electrets with different charge-transfer effects. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 1039-	-45 ⁸	28
107	Low-Bandgap Organic Bulk-Heterojunction Enabled Efficient and Flexible Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2105539	24	27
106	High Mobility Preservation of Near Amorphous Conjugated Polymers in the Stretched States Enabled by Biaxially-Extended Conjugated Side-Chain Design. <i>Chemistry of Materials</i> , 2020 , 32, 7370-73	8 ^{2.6}	27
105	Mechanically robust, stretchable organic solar cells via buckle-on-elastomer strategy. <i>Organic Electronics</i> , 2018 , 53, 339-345	3.5	25
104	Trihydrazine Dihydriodide-Assisted Fabrication of Efficient Formamidinium Tin Iodide Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900285	7.1	25
103	A Room-Temperature Processable PDI-Based Electron-Transporting Layer for Enhanced Performance in PDI-Based Non-Fullerene Solar Cells. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600476	4.6	25
102	Improved Ambient-Stable Perovskite Solar Cells Enabled by a Hybrid Polymeric Electron-Transporting Layer. <i>ChemSusChem</i> , 2016 , 9, 2586-2591	8.3	24
101	Intrinsically Stretchable Nanostructured Silver Electrodes for Realizing Efficient Strain Sensors and Stretchable Organic Photovoltaics. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 27853-27862	9.5	24
100	Improving performance of Cs-based perovskite light-emitting diodes by dual additives consisting of polar polymer and n-type small molecule. <i>Organic Electronics</i> , 2019 , 67, 294-301	3.5	24
99	Modifying Surface Termination of CsPbI3 Grain Boundaries by 2D Perovskite Layer for Efficient and Stable Photovoltaics. <i>Advanced Functional Materials</i> , 2021 , 31, 2009515	15.6	24
98	Realizing a new class of hybrid organicIhorganic multifunctional perovskite. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10640-10650	13	23

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97	Designs from single junctions, heterojunctions to multijunctions for high-performance perovskite solar cells. <i>Chemical Society Reviews</i> , 2021 , 50, 13090-13128	58.5	23
96	Interfacial Modification through a Multifunctional Molecule for Inorganic Perovskite Solar Cells with over 18% Efficiency. <i>Solar Rrl</i> , 2020 , 4, 2000205	7.1	22
95	New P-type of poly(4-methoxy-triphenylamine)s derived by coupling reactions: Synthesis, electrochromic behaviors, and hole mobility. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 4037-4050	2.5	22
94	Improving Photovoltaic Performance Using Perovskite/Surface-Modified Graphitic Carbon Nitride Heterojunction. <i>Solar Rrl</i> , 2020 , 4, 1900413	7.1	22
93	Two-Dimensional CsPb(SCN)Br-Based Photomemory Devices Showing a Photoinduced Recovery Behavior and an Unusual Fully Optically Driven Memory Behavior. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36398-36408	9.5	22
92	Over 15% Efficiency in Ternary Organic Solar Cells by Enhanced Charge Transport and Reduced Energy Loss. <i>ACS Applied Materials & Energy Loss</i> , 2020, 12, 21633-21640	9.5	22
91	Synthesis of New Fluorene-Indolocarbazole Alternating Copolymers for Light-Emitting Diodes and Field Effect Transistors. <i>Polymer Journal</i> , 2008 , 40, 249-255	2.7	21
90	Facile Fabrication of Stretchable Touch-Responsive Perovskite Light-Emitting Diodes Using Robust Stretchable Composite Electrodes. <i>ACS Applied Materials & Empty Interfaces</i> , 2020 , 12, 14408-14415	9.5	20
89	Electrospinning-induced elastomeric properties of conjugated polymers for extremely stretchable nanofibers and rubbery optoelectronics. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 873-882	7.1	20
88	Backbone Engineering of Diketopyrrolopyrrole-Based Conjugated Polymers through Random Terpolymerization for Improved Mobility-Stretchability Property. <i>ACS Applied Materials & amp; Interfaces</i> , 2020 , 12, 50648-50659	9.5	20
87	Intrinsically stretchable, solution-processable functional poly(siloxane-imide)s for stretchable resistive memory applications. <i>Polymer Chemistry</i> , 2018 , 9, 5145-5154	4.9	19
86	Solution-Processable Anion-doped Conjugated Polymer for Nonvolatile Organic Transistor Memory with Synaptic Behaviors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33968-33978	9.5	18
85	Enabling High Efficiency of Hydrocarbon-Solvent Processed Organic Solar Cells through Balanced Charge Generation and Non-Radiative Loss. <i>Advanced Energy Materials</i> , 2021 , 11, 2101768	21.8	18
84	Technical Challenges and Perspectives for the Commercialization of Solution-Processable Solar Cells. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000960	6.8	18
83	Tetrathienodibenzocarbazole Based Donor Acceptor Type Wide Band-Gap Copolymers for Polymer Solar Cell Applications. <i>Macromolecules</i> , 2014 , 47, 7407-7415	5.5	17
82	Stable blue perovskite light-emitting diodes achieved by optimization of crystal dimension through zinc bromide addition. <i>Chemical Engineering Journal</i> , 2021 , 414, 128774	14.7	17
81	Enhanced Near-Infrared Photoresponse of Inverted Perovskite Solar Cells Through Rational Design of Bulk-Heterojunction Electron-Transporting Layers. <i>Advanced Science</i> , 2019 , 6, 1901714	13.6	16
80	Fabricating efficient flexible organic photovoltaics using an eco-friendly cellulose nanofibers/silver nanowires conductive substrate. <i>Chemical Engineering Journal</i> , 2021 , 405, 126996	14.7	16

79	Enhancing Long-Term Thermal Stability of Non-Fullerene Organic Solar Cells Using Self-Assembly Amphiphilic Dendritic Block Copolymer Interlayers. <i>Advanced Functional Materials</i> , 2021 , 31, 2005753	15.6	16
78	Investigation of the MobilityBtretchability Relationship of Ester-Substituted Polythiophene Derivatives. <i>Macromolecules</i> , 2020 , 53, 4968-4981	5.5	15
77	Development of Block Copolymers with Poly(3-hexylthiophene) Segments as Compatibilizers in Non-Fullerene Organic Solar Cells. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 12083-12092	9.5	15
76	An effective and economical encapsulation method for trapping lead leakage in rigid and flexible perovskite photovoltaics. <i>Nano Energy</i> , 2022 , 93, 106853	17.1	15
75	Selenium-Containing Organic Photovoltaic Materials. <i>Accounts of Chemical Research</i> , 2021 , 54, 3906-397	1 6 4.3	15
74	Asymmetric Isomer Effects in Benzo[c][1,2,5]thiadiazole-Fused Nonacyclic Acceptors: Dielectric Constant and Molecular Crystallinity Control for Significant Photovoltaic Performance Enhancement. <i>Advanced Functional Materials</i> , 2021 , 31, 2104369	15.6	15
73	XPS spectra as a tool for studying photochemical and thermal degradation in APbX3 hybrid halide perovskites. <i>Nano Energy</i> , 2021 , 79, 105421	17.1	15
72	High-performance ternary polymer solar cells using wide-bandgap biaxially extended octithiophene-based conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6920-6928	7.1	15
71	A conductive liquid crystal via facile doping of an n-type benzodifurandione derivative. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6929-6934	13	14
70	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. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 961-968	13	14
69	Semi-conjugated acceptor-based polyimides as electrets for nonvolatile transistor memory devices. <i>Polymer Chemistry</i> , 2014 , 5, 6834-6846	4.9	14
68	Syntheses, properties, and field-effect transistors of small band gap quinoxaline- and thienopyrazine-vinylene/ethynylene conjugated polymers. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 74-81	2.5	14
67	Improving Performance of Nonvolatile Perovskite-Based Photomemory by Size Restrain of Perovskites Nanocrystals in the Hybrid Floating Gate. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000458	6.4	14
66	Hexaazatrinaphthylene Derivatives: Efficient Electron-Transporting Materials with Tunable Energy Levels for Inverted Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2016 , 128, 9145-9149	3.6	14
65	Feasibility study of atmospheric-pressure dielectric barrier discharge treatment on CH3NH3PbI3 films for inverted planar perovskite solar cells. <i>Electrochimica Acta</i> , 2019 , 293, 1-7	6.7	14
64	Improving the Performance and Stability of Perovskite Light-Emitting Diodes by a Polymeric Nanothick Interlayer-Assisted Grain Control Process. <i>ACS Omega</i> , 2020 , 5, 8972-8981	3.9	13
63	A Simple Dithieno[3,2-b:2R3Rd]pyrrol-Rhodanine Molecular Third Component Enables Over 16.7% Efficiency and Stable Organic Solar Cells. <i>Small</i> , 2021 , 17, e2007746	11	13
62	Stable, color-tunable 2D SCN-based perovskites: revealing the critical influence of an asymmetric pseudo-halide on constituent ions. <i>Nanoscale</i> , 2019 , 11, 2608-2616	7.7	13

61	Intrinsically stretchable polymer semiconductors: molecular design, processing and device applications. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2660-2684	7.1	13
60	Improved stability and efficiency of perovskite/organic tandem solar cells with an all-inorganic perovskite layer. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19778-19787	13	13
59	Synergistical Dipole-Dipole Interaction Induced Self-Assembly of Phenoxazine-Based Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20437-20442	16.4	13
58	Engineering of perovskite light-emitting diodes based on quasi-2D perovskites formed by diamine cations. <i>Organic Electronics</i> , 2019 , 75, 105400	3.5	12
57	Recent progress of anion-based 2D perovskites with different halide substitutions. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4294-4302	7.1	11
56	Dopant-Free Hole-Transporting Material with Enhanced Intermolecular Interaction for Efficient and Stable n-i-p Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2100967	21.8	11
55	Biaxially-extended side-chain engineering of benzodithiophene-based conjugated polymers and their applications in polymer solar cells. <i>Organic Electronics</i> , 2020 , 79, 105630	3.5	10
54	Interfacial Engineering of Wide-Bandgap Perovskites for Efficient Perovskite/CZTSSe Tandem Solar Cells. <i>Advanced Functional Materials</i> ,2107359	15.6	10
53	XPS evidence of degradation mechanism in CHNHPbI hybrid perovskite. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 095501	1.8	10
52	Low-Temperature Processed Carbon Electrode-Based Inorganic Perovskite Solar Cells with Enhanced Photovoltaic Performance and Stability. <i>Energy and Environmental Materials</i> , 2021 , 4, 95-102	13	10
51	Investigation of the MobilityBtretchability Properties of Naphthalenediimide-Based Conjugated Random Terpolymers with a Functionalized Conjugation Break Spacer. <i>Macromolecules</i> , 2021 , 54, 7388-	7 3 99	10
50	StructureMobility Relationship of Benzodithiophene-Based Conjugated Polymers with Varied Biaxially Extended Conjugated Side Chains. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 9105-9115	3.9	9
49	Enhanced crystallization and performance of formamidinium lead triiodide perovskite solar cells through PbI2-SrCl2 modulation. <i>Materials Today Energy</i> , 2018 , 7, 239-245	7	9
48	Comprehensive Non-volatile Photo-programming Transistor Memory via a Dual-Functional Perovskite-Based Floating Gate. <i>ACS Applied Materials & Description of Materials & Description of</i>	9.5	9
47	Realizing Nonvolatile Photomemories with Multilevel Memory Behaviors Using Water-Processable Polymer Dots-Based Hybrid Floating Gates. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1708-1718	4	8
46	Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridine-Based Dopant-Free Polymer Semiconductor. <i>Angewandte Chemie</i> , 2021 , 133, 7303-7309	3.6	8
45	Alcohol-Soluble Cross-Linked Poly(nBA) - b-Poly(NVTri) Block Copolymer and Its Applications in Organic Photovoltaic Cells for Improved Stability. <i>ACS Applied Materials & Discourt Applications</i> 10, 4474	49:-5447	 50
44	Highly efficient and stable perovskite solar cells enabled by a fluoro-functionalized TiO2 inorganic interlayer. <i>Matter</i> , 2021 ,	12.7	8

43	Photovoltaic performance of ladder-type indacenodithieno[3,2-b]thiophene-based polymers with alkoxyphenyl side chains. <i>RSC Advances</i> , 2015 , 5, 26680-26685	3.7	7
42	Photon-Induced Reshaping in Perovskite Material Yields of Nanocrystals with Accurate Control of Size and Morphology. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4149-4156	6.4	7
41	Realizing Stable High-Performance and Low-Energy-Loss Ternary Photovoltaics through Judicious Selection of the Third Component. <i>Solar Rrl</i> , 2021 , 5, 2100450	7.1	7
40	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). <i>Advanced Science</i> , 2019 , 6, 1970030	13.6	6
39	Infrared proximity sensor using organic light-emitting diode with quantum dots converter. <i>Organic Electronics</i> , 2012 , 13, 2312-2318	3.5	6
3 8	Improving MobilityBtretchability Properties of Polythiophene Derivatives through Ester-Substituted, Biaxially Extended Conjugated Side Chains. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1628-1637	4.3	6
37	Efficient thick film non-fullerene organic solar cells enabled by using a strong temperature-dependent aggregative wide bandgap polymer. <i>Chemical Engineering Journal</i> , 2021 , 405, 127033	14.7	6
36	Inorganic-Cation Pseudo-Halide Two-dimensional Cs Pb(SCN) Br Perovskite Single Crystal. <i>Advanced Materials</i> , 2021 , e2104782	24	6
35	High hole mobility from thiophene-thienopyrazine copolymer based thin film transistors. <i>Journal of Polymer Research</i> , 2009 , 16, 239-244	2.7	5
34	Low-Energy-Consumption and Electret-Free Photosynaptic Transistor Utilizing Poly(3-hexylthiophene)-Based Conjugated Block Copolymers <i>Advanced Science</i> , 2022 , e2105190	13.6	5
33	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
32	Interface Engineering for All-Inorganic CsPbIBr2 Perovskite Solar Cells with Enhanced Power Conversion Efficiency over 11%. <i>Energy Technology</i> ,2100562	3.5	5
31	Multi-state memristive behavior in a light-emitting electrochemical cell. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 11421-11428	7.1	4
30	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
29	An Efficient and Reversible Battery Anode Electrode Derived from a Lead-Based Metal Drganic Framework. <i>Energy & Description</i> 2021, 35, 9669-9682	4.1	4
28	An asymmetric 2,3-fluoranthene imide building block for regioregular semiconductors with aggregation-induced emission properties <i>Chemical Science</i> , 2022 , 13, 996-1002	9.4	3
27	Intrinsically stretchable naphthalenediimideBithiophene conjugated statistical terpolymers using branched conjugation break spacers for fieldBffect transistors. <i>Polymer Chemistry</i> , 2021 , 12, 6167-6178	4.9	3
26	Exploitation of Thermoresponsive Switching Organic Field-Effect Transistors. ACS Omega, 2019, 4, 2208	- 3 <u>3</u> . <u>3</u> 20	88

25	Possible interfacial ion/charge accumulation in thin-film perovskite/fullerene surfactant planar heterojunction solar cells. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 504001	3	3
24	A highly responsive hybrid photodetector based on all-inorganic 2D heterojunction consisting of Cs2Pb(SCN)2Br2 and MoS2. <i>Chemical Engineering Journal</i> , 2021 , 422, 130112	14.7	3
23	Naphthalene-diimide-based all-conjugated block copolymer as an effective compatibilizer to improve the performance and thermal stability of all-polymer solar cells. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 7216-7227	7.8	3
22	Solution-Processable, Transparent Polyimide for High-Performance High-k Nanocomposite: Synthesis, Characterization, and Dielectric Applications in Transistors. <i>Asian Journal of Organic</i> <i>Chemistry</i> , 2018 , 7, 2263-2270	3	2
21	Surface engineered CoP/CoO heterojunction for high-performance bi-functional water splitting electro-catalysis. <i>Nanoscale</i> , 2021 ,	7.7	2
20	Recent advance in renewable materials and green processes for optoelectronic applications. <i>Materials Today Sustainability</i> , 2020 , 11-12, 100057	5	2
19	Investigating the backbone conformation and configuration effects for donor conjugated polymers with ladder-type structures synthesized through Aldol polycondensation. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 9473-9483	7.1	2
18	Electrospun Nanofibers: Uniform Luminous Perovskite Nanofibers with Color-Tunability and Improved Stability Prepared by One-Step Core/Shell Electrospinning (Small 22/2018). <i>Small</i> , 2018 , 14, 1870103	11	2
17	Conjugated polysquaraines synthesized by polycondensation: Physical, optical, and charge transport properties. <i>Dyes and Pigments</i> , 2020 , 175, 108162	4.6	1
16	Pyrene-Incorporated Side Chain in EConjugated Polymers for Non-Volatile Transistor-Type Memory Devices with Improved Stretchability. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 2109-2119	4.3	1
15	Cross-Linking of Poly(arylenebutadiynylene)s and Its Effect on Charge Carrier Mobilities in Thin-Film Transistors. <i>Macromolecules</i> , 2021 , 54, 4351-4362	5.5	1
14	Low-Cost Hole-Transporting Materials Based on Carbohelicene for High-Performance Perovskite Solar Cells. <i>ACS Applied Materials & Districted</i> , 13, 20051-20059	9.5	1
13	Synergistical DipoleDipole Interaction Induced Self-Assembly of Phenoxazine-Based Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2021 , 133, 20600-20605	3.6	1
12	Improving Thermal and Photostability of Polymer Solar Cells by Robust Interface Engineering <i>Small</i> , 2022 , e2107834	11	1
11	Interface and Nanostructural Engineering of Low-cost, Efficient and Stable Perovskite Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1771, 171-179		0
10	CoilFodFoil triblock copolymers synthesized by macromolecular clicking and their compatibilizer effects in all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2021 , 10, 346-359	7.1	O
9	Biaxially Extended Side-Chain Conjugation of Benzodithiophene-Based Polymer Dots for Superior Photocatalytic Stability under Visible-Light Irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 10, 106927	6.8	0
8	Reducing the side-chain influences of isoindigo-based polymer donors by backbone fluorination in photovoltaic applications. <i>Dyes and Pigments</i> , 2022 , 199, 110038	4.6	O

7	Multi-Selenophene-Containing Narrow Bandgap Polymer Acceptors for All-Polymer Solar Cells with over 15 % Efficiency and High Reproducibility. <i>Angewandte Chemie</i> , 2021 , 133, 16071-16079	3.6	О
6	Exploring the effect of the spacer structure in the heterocyclic ring-fused isoindigo-based conjugated polymer on the charge-transporting property. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	O
5	Improving the performance of all-inorganic perovskite light-emitting diodes through using polymeric interlayers with a pendant design. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 7199-7207	7.8	О
4	Thiol-end-functionalized Regioregular Poly(3-hexylthiophene) for PbS Quantum Dot Dispersions. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 4450-4459	4.3	O
3	Influence of Oxygen Ion Migration from Substrates on Photochemical Degradation of CH3NH3PbI3 Hybrid Perovskite. <i>Energies</i> , 2021 , 14, 5062	3.1	О
2	Polymer synaptic transistors from memory to neuromorphic computing. <i>Materials Chemistry and Physics</i> , 2022 , 126263	4.4	0
1	Inorganic-Cation Pseudohalide 2D Cs 2 Pb(SCN) 2 Br 2 Perovskite Single Crystal (Adv. Mater. 7/2022). <i>Advanced Materials</i> , 2022 , 34, 2270054	24	