Alex Jen

List of Publications by Year
in descending order

804	71,906	369 135	1190 228
papers	citations	h-index	g-index

819	819	819	38110
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Non-fullerene acceptors for organic solar cells. Nature Reviews Materials, 2018, 3, .	48.7	2,163
2	Molecular biomimetics: nanotechnology through biology. Nature Materials, 2003, 2, 577-585.	27.5	1,498
3	Additive Enhanced Crystallization of Solutionâ€Processed Perovskite for Highly Efficient Planarâ€Heterojunction Solar Cells. Advanced Materials, 2014, 26, 3748-3754.	21.0	1,344
4	Polymer-Based Optical Waveguides: Materials, Processing, and Devices. Advanced Materials, 2002, 14, 1339-1365.	21.0	1,248
5	Design and synthesis of chromophores and polymers for electro-optic and photorefractive applications. Nature, 1997, 388, 845-851.	27.8	1,016
6	Recent advances in solution-processed interfacial materials for efficient and stable polymer solar cells. Energy and Environmental Science, 2012, 5, 5994.	30.8	993
7	Interface Engineering for Organic Electronics. Advanced Functional Materials, 2010, 20, 1371-1388.	14.9	859
8	Air-stable inverted flexible polymer solar cells using zinc oxide nanoparticles as an electron selective layer. Applied Physics Letters, 2008, 92, .	3.3	790
9	Highâ€Performance and Environmentally Stable Planar Heterojunction Perovskite Solar Cells Based on a Solutionâ€Processed Copperâ€Doped Nickel Oxide Holeâ€Transporting Layer. Advanced Materials, 2015, 27, 695-701.	21.0	751
10	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.	30.8	725
11	Heterojunction Modification for Highly Efficient Organicâ€“Inorganic Perovskite Solar Cells. ACS Nano, 2014, 8, 12701-12709.	14.6	614
12	High-Performance Perovskite-Polymer Hybrid Solar Cells via Electronic Coupling with Fullerene Monolayers. Nano Letters, 2013, 13, 3124-3128.	9.1	602
13	Polymer Solar Cells That Use Selfâ€Assembledâ€Monolayerâ€•Modified ZnO/Metals as Cathodes. Advanced Materials, 2008, 20, 2376-2382.	21.0	511
14	Efficient CdSe/CdS Quantum Dot Light-Emitting Diodes Using a Thermally Polymerized Hole Transport Layer. Nano Letters, 2006, 6, 463-467.	9.1	502
15	Synthesis and Processing of Improved Organic Second-Order Nonlinear Optical Materials for Applications in Photonics. Chemistry of Materials, 1995, 7, 1060-1081.	6.7	484
16	Functional fullerenes for organic photovoltaics. Journal of Materials Chemistry, 2012, 22, 4161.	6.7	478
17	Pinhole-Free and Surface-Nanostructured NiO_x Film by Room-Temperature Solution Process for High-Performance Flexible Perovskite Solar Cells with Good Stability and Reproducibility. ACS Nano, 2016, 10, 1503-1511.	14.6	477
18	The role of spin in the kinetic control of recombination in organic photovoltaics. Nature, 2013, 500, 435-439.	27.8	460

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19	Enhanced Efficiency and Stability of Inverted Perovskite Solar Cells Using Highly Crystalline SnO₂ Nanocrystals as the Robust Electronâ€Transporting Layer. Advanced Materials, 2016, 28, 6478-6484.	21.0	447
20	Dopant-Free Hole-Transporting Material with a C₃h</sub> Symmetrical Truxene Core for Highly Efficient Perovskite Solar Cells. Journal of the American Chemical Society, 2016, 138, 2528-2531.	13.7	446
21	Fluoroâ€Substituted nâ€Type Conjugated Polymers for Additiveâ€Free Allâ€Polymer Bulk Heterojunction Solar Cells with High Power Conversion Efficiency of 6.71%. Advanced Materials, 2015, 27, 3310-3317.	21.0	421
22	Regulating Surface Termination for Efficient Inverted Perovskite Solar Cells with Greater Than 23% Efficiency. Journal of the American Chemical Society, 2020, 142, 20134-20142.	13.7	414
23	A Lowâ€Temperature, Solutionâ€Processable, Cuâ€Doped Nickel Oxide Holeâ€Transporting Layer via the Combustion Method for Highâ€Performance Thinâ€Film Perovskite Solar Cells. Advanced Materials, 2015, 27, 7874-7880.	21.0	405
24	Integrated Molecular, Interfacial, and Device Engineering towards Highâ€Performance Nonâ€Fullerene Based Organic Solar Cells. Advanced Materials, 2014, 26, 5708-5714.	21.0	400
25	From molecules to opto-chips: organic electro-optic materials. Journal of Materials Chemistry, 1999, 9, 1905-1920.	6.7	388
26	Dithienopicenocarbazole-Based Acceptors for Efficient Organic Solar Cells with Optoelectronic Response Over 1000 nm and an Extremely Low Energy Loss. Journal of the American Chemical Society, 2018, 140, 2054-2057.	13.7	369
27	Highly efficient all-inorganic perovskite solar cells with suppressed non-radiative recombination by a Lewis base. Nature Communications, 2020, 11, 177.	12.8	360
28	Role of Chloride in the Morphological Evolution of Organo-Lead Halide Perovskite Thin Films. ACS Nano, 2014, 8, 10640-10654.	14.6	353
29	Efficient Polymer Solar Cells Based on the Copolymers of Benzodithiophene and Thienopyrroledione. Chemistry of Materials, 2010, 22, 2696-2698.	6.7	346
30	Improved Charge Transport and Absorption Coefficient in Indacenodithieno[3,2â€b]thiopheneâ€based Ladderâ€Type Polymer Leading to Highly Efficient Polymer Solar Cells. Advanced Materials, 2012, 24, 6356-6361.	21.0	343
31	Broadband terahertz characterization of the refractive index and absorption of some important polymeric and organic electro-optic materials. Journal of Applied Physics, 2011, 109, 043505-043505-5.	2.5	342
32	Interfacial modification to improve inverted polymer solar cells. Journal of Materials Chemistry, 2008, 18, 5113.	6.7	339
33	Development of New Conjugated Polymers with Donorâ€Ï€-Bridgeâ€Acceptor Side Chains for High Performance Solar Cells. Journal of the American Chemical Society, 2009, 131, 13886-13887.	13.7	335
34	Toward Perovskite Solar Cell Commercialization: A Perspective and Research Roadmap Based on Interfacial Engineering. Advanced Materials, 2018, 30, e1800455.	21.0	332
35	Hybrid polymer/solâ€“gel waveguide modulators with exceptionally large electroâ€“optic coefficients. Nature Photonics, 2007, 1, 180-185.	31.4	331
36	C₆₀ as an Efficient n-Type Compact Layer in Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 2399-2405.	4.6	324

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37	Semi-transparent polymer solar cells with 6% PCE, 25% average visible transmittance and a color rendering index close to 100 for power generating window applications. Energy and Environmental Science, 2012, 5, 9551.	30.8	323
38	Indacenodithiophene and Quinoxaline-Based Conjugated Polymers for Highly Efficient Polymer Solar Cells. Chemistry of Materials, 2011, 23, 2289-2291.	6.7	318
39	Defect Passivation of Organicâ€“Inorganic Hybrid Perovskites by Diammonium Iodide toward High-Performance Photovoltaic Devices. ACS Energy Letters, 2016, 1, 757-763.	17.4	317
40	Enhanced Environmental Stability of Planar Heterojunction Perovskite Solar Cells Based on Bladeâ€Coating. Advanced Energy Materials, 2015, 5, 1401229.	19.5	303
41	Stable Lowâ€Bandgap Pbâ€“Sn Binary Perovskites for Tandem Solar Cells. Advanced Materials, 2016, 28, 8990-8997.	21.0	302
42	Ultralarge and Thermally Stable Electro-Optic Activities from Supramolecular Self-Assembled Molecular Glasses. Journal of the American Chemical Society, 2007, 129, 488-489.	13.7	300
43	Mixed Cation FA_xPEA_{1â€“}_xPbI₃ with Enhanced Phase and Ambient Stability toward Highâ€Performance Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1601307.	19.5	298
44	High performance ambient processed inverted polymer solar cells through interfacial modification with a fullerene self-assembled monolayer. Applied Physics Letters, 2008, 93, .	3.3	295
45	Binaryâ€Metal Perovskites Toward Highâ€Performance Planarâ€Heterojunction Hybrid Solar Cells. Advanced Materials, 2014, 26, 6454-6460.	21.0	295
46	Highâ€Performance Fully Printable Perovskite Solar Cells via Bladeâ€Coating Technique under the Ambient Condition. Advanced Energy Materials, 2015, 5, 1500328.	19.5	294
47	A Review on the Development of the Inverted Polymer Solar Cell Architecture. Polymer Reviews, 2010, 50, 474-510.	10.9	293
48	Roles of Fullereneâ€Based Interlayers in Enhancing the Performance of Organometal Perovskite Thinâ€Film Solar Cells. Advanced Energy Materials, 2015, 5, 1402321.	19.5	289
49	CuGaO₂: A Promising Inorganic Holeâ€Transporting Material for Highly Efficient and Stable Perovskite Solar Cells. Advanced Materials, 2017, 29, 1604984.	21.0	282
50	The Important Role of Heteroaromatics in the Design of Efficient Second-Order Nonlinear Optical Molecules:Â Theoretical Investigation on Pushâ^'Pull Heteroaromatic Stilbenes. Journal of the American Chemical Society, 1996, 118, 12443-12448.	13.7	280
51	Optical modulation and detection in slotted Silicon waveguides. Optics Express, 2005, 13, 5216.	3.4	279
52	Highly Efficient Perovskiteâ€“Perovskite Tandem Solar Cells Reaching 80% of the Theoretical Limit in Photovoltage. Advanced Materials, 2017, 29, 1702140.	21.0	278
53	Terahertz all-optical modulation in a siliconâ€“polymer hybrid system. Nature Materials, 2006, 5, 703-709.	27.5	276
54	Metal grid/conducting polymer hybrid transparent electrode for inverted polymer solar cells. Applied Physics Letters, 2010, 96, .	3.3	273

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55	Over 12% Efficiency Nonfullerene Allâ€Smallâ€Molecule Organic Solar Cells with Sequentially Evolved Multilength Scale Morphologies. Advanced Materials, 2019, 31, e1807842.	21.0	272
56	Rational Design of Advanced Thermoelectric Materials. Advanced Energy Materials, 2013, 3, 549-565.	19.5	264
57	2D metalâ€“organic framework for stable perovskite solar cells with minimized lead leakage. Nature Nanotechnology, 2020, 15, 934-940.	31.5	258
58	A Non-fullerene Acceptor with Enhanced Intermolecular Ï€-Core Interaction for High-Performance Organic Solar Cells. Journal of the American Chemical Society, 2020, 142, 15246-15251.	13.7	257
59	Highly Efficient Organic Solar Cells with Improved Vertical Donorâ€“Acceptor Compositional Gradient Via an Inverted Offâ€Center Spinning Method. Advanced Materials, 2016, 28, 967-974.	21.0	256
60	Indium tin oxide-free semi-transparent inverted polymer solar cells using conducting polymer as both bottom and top electrodes. Organic Electronics, 2009, 10, 1401-1407.	2.6	255
61	Highly Efficient Blue-Light-Emitting Diodes from Polyfluorene Containing Bipolar Pendant Groups. Macromolecules, 2003, 36, 6698-6703.	4.8	247
62	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.	13.7	245
63	The molecular and supramolecular engineering of polymeric electro-optic materials. Chemical Physics, 1999, 245, 35-50.	1.9	244
64	Doping of Fullerenes via Anionâ€Induced Electron Transfer and Its Implication for Surfactant Facilitated High Performance Polymer Solar Cells. Advanced Materials, 2013, 25, 4425-4430.	21.0	244
65	CsPbBr₃ Perovskite Quantum Dot Vertical Cavity Lasers with Low Threshold and High Stability. ACS Photonics, 2017, 4, 2281-2289.	6.6	243
66	Increased open circuit voltage in fluorinated benzothiadiazole-based alternating conjugated polymers. Chemical Communications, 2011, 47, 11026.	4.1	241
67	Rigidifying Nonplanar Perylene Diimides by Ring Fusion Toward Geometryâ€Tunable Acceptors for Highâ€Performance Fullereneâ€Free Solar Cells. Advanced Materials, 2016, 28, 951-958.	21.0	238
68	Highly Efficient Fluorene- and Benzothiadiazole-Based Conjugated Copolymers for Polymer Light-Emitting Diodes. Macromolecules, 2002, 35, 6094-6100.	4.8	228
69	Highly Efficient and Thermally Stable Nonlinear Optical Dendrimer for Electrooptics. Journal of the American Chemical Society, 2001, 123, 986-987.	13.7	226
70	Two-Dimensional Perovskite Solar Cells with 14.1% Power Conversion Efficiency and 0.68% External Radiative Efficiency. ACS Energy Letters, 2018, 3, 2086-2093.	17.4	224
71	Tailor-Making Low-Cost Spiro[fluorene-9,9â€²-xanthene]-Based 3D Oligomers for Perovskite Solar Cells. CheM, 2017, 2, 676-687.	11.7	222
72	Enhancement of Aggregationâ€Induced Emission in Dyeâ€Encapsulating Polymeric Micelles for Bioimaging. Advanced Functional Materials, 2010, 20, 1413-1423.	14.9	221

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73	Highâ€Performance Semitransparent Perovskite Solar Cells with 10% Power Conversion Efficiency and 25% Average Visible Transmittance Based on Transparent CuSCN as the Holeâ€Transporting Material. Advanced Energy Materials, 2015, 5, 1500486.	19.5	221
74	Divalent Osmium Complexes:Â Synthesis, Characterization, Strong Red Phosphorescence, and Electrophosphorescence. Journal of the American Chemical Society, 2002, 124, 14162-14172.	13.7	218
75	Highly Efficient and Thermally Stable Electro-Optical Dendrimers for Photonics. Advanced Functional Materials, 2002, 12, 565-574.	14.9	209
76	Suppressed Charge Recombination in Inverted Organic Photovoltaics via Enhanced Charge Extraction by Using a Conductive Fullerene Electron Transport Layer. Advanced Materials, 2014, 26, 6262-6267.	21.0	206
77	Surface Doping of Conjugated Polymers by Graphene Oxide and Its Application for Organic Electronic Devices. Advanced Materials, 2011, 23, 1903-1908.	21.0	204
78	Electrophosphorescence from a Conjugated Copolymer Doped with an Iridium Complex: High Brightness and Improved Operational Stability. Advanced Materials, 2003, 15, 45-49.	21.0	202
79	Realizing Efficient Leadâ€Free Formamidinium Tin Triiodide Perovskite Solar Cells via a Sequential Deposition Route. Advanced Materials, 2018, 30, 1703800.	21.0	198
80	Nonlinear polymer-clad silicon slot waveguide modulator with a half wave voltage of 0.25V. Applied Physics Letters, 2008, 92, 163303.	3.3	195
81	Molecular Engineered Holeâ€Extraction Materials to Enable Dopantâ€Free, Efficient pâ€iâ€n Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700012.	19.5	195
82	Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. Chemistry of Materials, 2018, 30, 5429-5434.	6.7	194
83	Stabilized Wide Bandgap Perovskite Solar Cells by Tin Substitution. Nano Letters, 2016, 16, 7739-7747.	9.1	193
84	Inorganic CsPb_{1â^'}_xSn_xIBr₂ for Efficient Wideâ€Bandgap Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1800525.	19.5	192
85	A Simple and Effective Way of Achieving Highly Efficient and Thermally Stable Bulk-Heterojunction Polymer Solar Cells Using Amorphous Fullerene Derivatives as Electron Acceptor. Chemistry of Materials, 2009, 21, 2598-2600.	6.7	191
86	Current Challenges and Prospective Research for Upscaling Hybrid Perovskite Photovoltaics. Journal of Physical Chemistry Letters, 2016, 7, 811-819.	4.6	188
87	Adding a Third Component with Reduced Miscibility and Higher LUMO Level Enables Efficient Ternary Organic Solar Cells. ACS Energy Letters, 2020, 5, 2711-2720.	17.4	188
88	Significant Improved Performance of Photovoltaic Cells Made from a Partially Fluorinated Cyclopentadithiophene/Benzothiadiazole Conjugated Polymer. Macromolecules, 2012, 45, 5427-5435.	4.8	186
89	Enhanced Openâ€Circuit Voltage in High Performance Polymer/Fullerene Bulkâ€Heterojunction Solar Cells by Cathode Modification with a C₆₀ Surfactant. Advanced Energy Materials, 2012, 2, 82-86.	19.5	185
90	Effects of Selfâ€Assembled Monolayer Modification of Nickel Oxide Nanoparticles Layer on the Performance and Application of Inverted Perovskite Solar Cells. ChemSusChem, 2017, 10, 3794-3803.	6.8	185

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91	High Performance Amorphous Metallated Ï€-Conjugated Polymers for Field-Effect Transistors and Polymer Solar Cells. Chemistry of Materials, 2008, 20, 5734-5736.	6.7	182
92	Low-temperature processed high-performance flexible perovskite solar cells via rationally optimized solvent washing treatments. RSC Advances, 2014, 4, 62971-62977.	3.6	182
93	Effects of formamidinium and bromide ion substitution in methylammonium lead triiodide toward high-performance perovskite solar cells. Nano Energy, 2016, 22, 328-337.	16.0	180
94	Design of a Highly Crystalline Low-Band Gap Fused-Ring Electron Acceptor for High-Efficiency Solar Cells with Low Energy Loss. Chemistry of Materials, 2017, 29, 8369-8376.	6.7	180
95	Synthesis and Optoelectronic Properties of Starlike Polyfluorenes with a Silsesquioxane Core. Macromolecules, 2004, 37, 2335-2341.	4.8	178
96	Interfacial Engineering of Ultrathin Metal Film Transparent Electrode for Flexible Organic Photovoltaic Cells. Advanced Materials, 2014, 26, 3618-3623.	21.0	178
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, 11833-11839.	13.7	178
98	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.	8.0	178
99	Toward All Roomâ€Temperature, Solutionâ€Processed, Highâ€Performance Planar Perovskite Solar Cells: A New Scheme of Pyridineâ€Promoted Perovskite Formation. Advanced Materials, 2017, 29, 1604695.	21.0	178
100	Highly Efficient Porphyrinâ€Based OPV/Perovskite Hybrid Solar Cells with Extended Photoresponse and High Fill Factor. Advanced Materials, 2017, 29, 1703980.	21.0	176
101	Novel Oxadiazole-Containing Polyfluorene with Efficient Blue Electroluminescence. Chemistry of Materials, 2003, 15, 269-274.	6.7	173
102	Crosslinkable Hole-Transport Layer on Conducting Polymer for High-Efficiency White Polymer Light-Emitting Diodes. Advanced Materials, 2007, 19, 300-304.	21.0	170
103	Systematic Study of the Structureâ^'Property Relationship of a Series of Ferrocenyl Nonlinear Optical Chromophores. Journal of the American Chemical Society, 2005, 127, 2758-2766.	13.7	168
104	Non-halogenated solvents for environmentally friendly processing of high-performance bulk-heterojunction polymer solar cells. Energy and Environmental Science, 2013, 6, 3241.	30.8	168
105	Self-assembled monolayer modified ZnO/metal bilayer cathodes for polymer/fullerene bulk-heterojunction solar cells. Applied Physics Letters, 2008, 92, .	3.3	167
106	Effect of Chemical Modification of Fullerene-Based Self-Assembled Monolayers on the Performance of Inverted Polymer Solar Cells. ACS Applied Materials & Interfaces, 2010, 2, 1892-1902.	8.0	166
107	Large Electro-optic Activity and Enhanced Thermal Stability from Diarylaminophenyl-Containing High-Î² Nonlinear Optical Chromophores. Chemistry of Materials, 2007, 19, 1154-1163.	6.7	164
108	Novel push-pull thiophenes for second order nonlinear optical applications. Tetrahedron Letters, 1993, 34, 1747-1750.	1.4	162

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109	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.	16.0	162
110	Current-Induced Phase Segregation in Mixed Halide Hybrid Perovskites and its Impact on Two-Terminal Tandem Solar Cell Design. ACS Energy Letters, 2017, 2, 1841-1847.	17.4	161
111	Functionalized thiophenes: second-order nonlinear optical materials. Journal of the Chemical Society Chemical Communications, 1993, , 90.	2.0	160
112	Nanoscale Architectural Control and Macromolecular Engineering of Nonlinear Optical Dendrimers and Polymers for Electro-Opticsâ€. Journal of Physical Chemistry B, 2004, 108, 8523-8530.	2.6	160
113	Highly Efficient Polymer Whiteâ€Lightâ€Emitting Diodes Based on Lithium Salts Doped Electron Transporting Layer. Advanced Materials, 2009, 21, 361-365.	21.0	160
114	Effective interfacial layer to enhance efficiency of polymer solar cells via solution-processed fullerene-surfactants. Journal of Materials Chemistry, 2012, 22, 8574.	6.7	159
115	Crosslinkable hole-transporting materials for solution processed polymer light-emitting diodes. Journal of Materials Chemistry, 2008, 18, 4495.	6.7	157
116	Donorâ^'Acceptor Thiolated Polyenic Chromophores Exhibiting Large Optical Nonlinearity and Excellent Photostability. Chemistry of Materials, 2008, 20, 5047-5054.	6.7	156
117	Flexible and twistable non-volatile memory cell array with all-organic one diodeâ€“one resistor architecture. Nature Communications, 2013, 4, 2707.	12.8	156
118	Molecular Weight Effect on the Absorption, Charge Carrier Mobility, and Photovoltaic Performance of an Indacenodiselenophene-Based Ladder-Type Polymer. Chemistry of Materials, 2013, 25, 3188-3195.	6.7	155
119	10.4% Power Conversion Efficiency of ITOâ€Free Organic Photovoltaics Through Enhanced Light Trapping Configuration. Advanced Energy Materials, 2015, 5, 1500406.	19.5	154
120	Functional Dendrimers for Nonlinear Optics. Advanced Materials, 2001, 13, 1201-1205.	21.0	152
121	Improved efficiency and stability of Pbâ€“Sn binary perovskite solar cells by Cs substitution. Journal of Materials Chemistry A, 2016, 4, 17939-17945.	10.3	151
122	Theory-Guided Design and Synthesis of Multichromophore Dendrimers:â€‰ An Analysis of the Electro-optic Effect. Journal of the American Chemical Society, 2007, 129, 7523-7530.	13.7	149
123	Ag-Incorporated Organicâ€“Inorganic Perovskite Films and Planar Heterojunction Solar Cells. Nano Letters, 2017, 17, 3231-3237.	9.1	149
124	The roles of alkyl halide additives in enhancing perovskite solar cell performance. Journal of Materials Chemistry A, 2015, 3, 9058-9062.	10.3	147
125	A copper-doped nickel oxide bilayer for enhancing efficiency and stability of hysteresis-free inverted mesoporous perovskite solar cells. Nano Energy, 2017, 40, 155-162.	16.0	147
126	Tailoring the Functionality of Organic Spacer Cations for Efficient and Stable Quasiâ€2D Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1900221.	14.9	144

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127	Ternary non-fullerene polymer solar cells with 13.51% efficiency and a record-high fill factor of 78.13%. Energy and Environmental Science, 2018, 11, 3392-3399.	30.8	143
128	Lowâ€Bandgap Porphyrins for Highly Efficient Organic Solar Cells: Materials, Morphology, and Applications. Advanced Materials, 2020, 32, e1906129.	21.0	143
129	Two-Step Synthesis of Side-Chain Aromatic Polyimides for Second-Order Nonlinear Optics. Macromolecules, 1996, 29, 535-539.	4.8	142
130	Focused Microwave-Assisted Synthesis of 2,5-Dihydrofuran Derivatives as Electron Acceptors for Highly Efficient Nonlinear Optical Chromophores. Advanced Materials, 2003, 15, 603-607.	21.0	142
131	Ï€â€Ïƒâ€Phosphonic Acid Organic Monolayer/Solâ€“Gel Hafnium Oxide Hybrid Dielectrics for Lowâ€Voltage Organic Transistors. Advanced Materials, 2008, 20, 3697-3701.	21.0	142
132	Approaching 16% Efficiency in All-Small-Molecule Organic Solar Cells Based on Ternary Strategy with a Highly Crystalline Acceptor. Joule, 2020, 4, 2223-2236.	24.0	142
133	Toward Highâ€Performance Semiâ€Transparent Polymer Solar Cells: Optimization of Ultraâ€Thin Light Absorbing Layer and Transparent Cathode Architecture. Advanced Energy Materials, 2013, 3, 417-423.	19.5	141
134	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.	17.4	141
135	Facile Approach to Nonlinear Optical Side-Chain Aromatic Polyimides with Large Second-Order Nonlinearity and Thermal Stability. Journal of the American Chemical Society, 1995, 117, 7295-7296.	13.7	140
136	Recent advances in molecular design of functional conjugated polymers for high-performance polymer solar cells. Progress in Polymer Science, 2019, 99, 101175.	24.7	140
137	The coupling and competition of crystallization and phase separation, correlating thermodynamics and kinetics in OPV morphology and performances. Nature Communications, 2021, 12, 332.	12.8	140
138	Effect of Cyano Substituents on Electron Affinity and Electron-Transporting Properties of Conjugated Polymers. Macromolecules, 2002, 35, 3532-3538.	4.8	138
139	Reducing Surface Recombination Velocities at the Electrical Contacts Will Improve Perovskite Photovoltaics. ACS Energy Letters, 2019, 4, 222-227.	17.4	138
140	Multifunctional phosphonic acid self-assembled monolayers on metal oxides as dielectrics, interface modification layers and semiconductors for low-voltage high-performance organic field-effect transistors. Physical Chemistry Chemical Physics, 2012, 14, 14110.	2.8	137
141	Lowâ€Temperature Solutionâ€Processed CuCrO₂ Holeâ€Transporting Layer for Efficient and Photostable Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1702762.	19.5	137
142	Pseudo-bilayer architecture enables high-performance organic solar cells with enhanced exciton diffusion length. Nature Communications, 2021, 12, 468.	12.8	137
143	Triarylamine-Containing Poly(perfluorocyclobutane) as Hole-Transporting Material for Polymer Light-Emitting Diodes. Macromolecules, 2000, 33, 3514-3517.	4.8	135
144	SrCl₂ Derived Perovskite Facilitating a High Efficiency of 16% in Holeâ€Conductorâ€Free Fully Printable Mesoscopic Perovskite Solar Cells. Advanced Materials, 2017, 29, 1606608.	21.0	135

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145	A Conjugated, Neutral Surfactant as Electron-Injection Material for High-Efficiency Polymer Light-Emitting Diodes. Advanced Materials, 2007, 19, 2010-2014.	21.0	134
146	Rational molecular design and supramolecular assembly of highly efficient organic electro-optic materials. Journal of Materials Chemistry, 2009, 19, 7410.	6.7	134
147	Ideal Bandgap Organicâ€“Inorganic Hybrid Perovskite Solar Cells. Advanced Materials, 2017, 29, 1704418.	21.0	133
148	Dramatically enhanced second-order nonlinear optical susceptibilities in tricyanovinylthiophene derivatives. Journal of the Chemical Society Chemical Communications, 1993, , 1118.	2.0	132
149	Synthesis and characterization of highly efficient and thermally stable diphenylamino-substituted thiophene stilbene chromophores for nonlinear optical applications. Advanced Materials, 1997, 9, 132-135.	21.0	132
150	Highly Efficient Inverted Organic Solar Cells Through Material and Interfacial Engineering of Indacenodithieno[3,2â€b]thiopheneâ€Based Polymers and Devices. Advanced Functional Materials, 2014, 24, 1465-1473.	14.9	132
151	Improved Performance from Multilayer Quantum Dot Lightâ€Emitting Diodes via Thermal Annealing of the Quantum Dot Layer. Advanced Materials, 2007, 19, 3371-3376.	21.0	130
152	Solutionâ€Processible Highly Conducting Fullerenes. Advanced Materials, 2013, 25, 2457-2461.	21.0	130
153	Systematic Nanoengineering of Soft Matter Organic Electro-optic Materials. Chemistry of Materials, 2011, 23, 430-445.	6.7	129
154	pH-dependent, thermosensitive polymeric nanocarriers for drug delivery to solid tumors. Biomaterials, 2013, 34, 4501-4509.	11.4	128
155	Effective in-device r_33 of 735 pm/V on electro-optic polymer infiltrated silicon photonic crystal slot waveguides. Optics Letters, 2011, 36, 882.	3.3	126
156	Dielsâ€'Alder â€œClick Chemistryâ€• for Highly Efficient Electrooptic Polymers. Macromolecules, 2006, 39, 1676-1680.	4.8	125
157	Optical Design of Transparent Thin Metal Electrodes to Enhance Inâ€Coupling and Trapping of Light in Flexible Polymer Solar Cells. Advanced Materials, 2012, 24, 6362-6367.	21.0	125
158	Multiâ€Selenopheneâ€Containing Narrow Bandgap Polymer Acceptors for Allâ€Polymer Solar Cells with over 15â€‰% Efficiency and High Reproducibility. Angewandte Chemie - International Edition, 2021, 60, 15935-15943.	13.8	125
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