

Thuc-Quyen Nguyen

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193
papers

14,221
citations

65
h-index

116
g-index

212
ext. papers

15,745
ext. citations

14.6
avg, IF

6.85
L-index

#	Paper	IF	Citations
193	Nanoscale Phase Separation and High Photovoltaic Efficiency in Solution-Processed, Small-Molecule Bulk Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2009 , 19, 3063-3069	15.6	841
192	Conjugated polymer aggregates in solution: Control of interchain interactions. <i>Journal of Chemical Physics</i> , 1999 , 110, 4068-4078	3.9	654
191	Non-basic high-performance molecules for solution-processed organic solar cells. <i>Advanced Materials</i> , 2012 , 24, 3646-9	24	554
190	Improved light harvesting and improved efficiency by insertion of an optical spacer (ZnO) in solution-processed small-molecule solar cells. <i>Nano Letters</i> , 2013 , 13, 3796-801	11.5	504
189	Exciton diffusion in organic semiconductors. <i>Energy and Environmental Science</i> , 2015 , 8, 1867-1888	35.4	497
188	Charge carrier recombination in organic solar cells. <i>Progress in Polymer Science</i> , 2013 , 38, 1941-1960	29.6	445
187	Polymer homo-tandem solar cells with best efficiency of 11.3%. <i>Advanced Materials</i> , 2015 , 27, 1767-73	24	386
186	A Low Band Gap, Solution Processable Oligothiophene with a Diketopyrrolopyrrole Core for Use in Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11545-11551	3.8	341
185	Recent Applications of Conjugated Polyelectrolytes in Optoelectronic Devices. <i>Advanced Materials</i> , 2008 , 20, 3793-3810	24	336
184	Small is Powerful: Recent Progress in Solution-Processed Small Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1602242	21.8	323
183	Nongeminate Recombination and Charge Transport Limitations in Diketopyrrolopyrrole-Based Solution-Processed Small Molecule Solar Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 3584-3594	15.6	235
182	High open circuit voltage in regioregular narrow band gap polymer solar cells. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12576-9	16.4	200
181	Design, Synthesis, and Self-assembly of Oligothiophene Derivatives with a Diketopyrrolopyrrole Core. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15543-15552	3.8	196
180	Quantification of geminate and non-geminate recombination losses within a solution-processed small-molecule bulk heterojunction solar cell. <i>Advanced Materials</i> , 2012 , 24, 2135-41	24	192
179	Regioregular pyridal[2,1,3]thiadiazole E-conjugated copolymers. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18538-41	16.4	191
178	Effects of Solvent Additives on Morphology, Charge Generation, Transport, and Recombination in Solution-Processed Small-Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1301469	21.8	180
177	Film Morphology of High Efficiency Solution-Processed Small-Molecule Solar Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 5019-5026	15.6	180

176	Harvesting the Full Potential of Photons with Organic Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 1482-8	24	177
175	Conductive conjugated polyelectrolyte as hole-transporting layer for organic bulk heterojunction solar cells. <i>Advanced Materials</i> , 2014 , 26, 780-5	24	174
174	Mobility guidelines for high fill factor solution-processed small molecule solar cells. <i>Advanced Materials</i> , 2014 , 26, 5957-61	24	172
173	Improving the performance of conjugated polymer-based devices by control of interchain interactions and polymer film morphology. <i>Applied Physics Letters</i> , 2000 , 76, 2454-2456	3-4	171
172	Effect of leakage current and shunt resistance on the light intensity dependence of organic solar cells. <i>Applied Physics Letters</i> , 2015 , 106, 083301	3-4	167
171	Impact of interfacial molecular orientation on radiative recombination and charge generation efficiency. <i>Nature Communications</i> , 2017 , 8, 79	17.4	160
170	Effects of Heteroatom Substitutions on the Crystal Structure, Film Formation, and Optoelectronic Properties of Diketopyrrolopyrrole-Based Materials. <i>Advanced Functional Materials</i> , 2013 , 23, 47-56	15.6	160
169	Understanding the High Performance of over 15% Efficiency in Single-Junction Bulk Heterojunction Organic Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1903868	24	149
168	A Systematic Approach to Solvent Selection Based on Cohesive Energy Densities in a Molecular Bulk Heterojunction System. <i>Advanced Energy Materials</i> , 2011 , 1, 221-229	21.8	148
167	Solvent additive effects on small molecule crystallization in bulk heterojunction solar cells probed during spin casting. <i>Advanced Materials</i> , 2013 , 25, 6380-4	24	144
166	Effect of Charge Recombination on the Fill Factor of Small Molecule Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 610-617	21.8	143
165	A High-Performance Solution-Processed Organic Photodetector for Near-Infrared Sensing. <i>Advanced Materials</i> , 2020 , 32, e1906027	24	138
164	Silaindacenodithiophene-based molecular donor: morphological features and use in the fabrication of compositionally tolerant, high-efficiency bulk heterojunction solar cells. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3597-606	16.4	128
163	Electron injection into organic semiconductor devices from high work function cathodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 12730-5	11.5	123
162	Systematic study of exciton diffusion length in organic semiconductors by six experimental methods. <i>Materials Horizons</i> , 2014 , 1, 280-285	14.4	121
161	Competitive Absorption and Inefficient Exciton Harvesting: Lessons Learned from Bulk Heterojunction Organic Photovoltaics Utilizing the Polymer Acceptor P(NDI2OD-T2). <i>Advanced Functional Materials</i> , 2014 , 24, 6989-6998	15.6	120
160	Solution-Processed Semitransparent Organic Photovoltaics: From Molecular Design to Device Performance. <i>Advanced Materials</i> , 2019 , 31, e1900904	24	117
159	Significance of Average Domain Purity and Mixed Domains on the Photovoltaic Performance of High-Efficiency Solution-Processed Small-Molecule BHJ Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1500877	21.8	116

158	Trap-limited exciton diffusion in organic semiconductors. <i>Advanced Materials</i> , 2014 , 26, 1912-7	24	111
157	Oligothiophene Derivatives Functionalized with a Diketopyrrolopyrrole Core for Solution-Processed Field Effect Transistors: Effect of Alkyl Substituents and Thermal Annealing. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17402-17407	3.8	111
156	Optimization of energy levels by molecular design: evaluation of bis-diketopyrrolopyrrole molecular donor materials for bulk heterojunction solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 952	35.4	109
155	Facile doping of anionic narrow-band-gap conjugated polyelectrolytes during dialysis. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12874-8	16.4	108
154	Side-Chain Engineering of Nonfullerene Acceptors for Near-Infrared Organic Photodetectors and Photovoltaics. <i>ACS Energy Letters</i> , 2019 , 4, 1401-1409	20.1	106
153	Improved injection in n-type organic transistors with conjugated polyelectrolytes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 18220-1	16.4	106
152	Influence of Structural Variation on the Solid-State Properties of Diketopyrrolopyrrole-Based Oligophenyleneethiophenes: Single-Crystal Structures, Thermal Properties, Optical Bandgaps, Energy Levels, Film Morphology, and Hole Mobility. <i>Chemistry of Materials</i> , 2012 , 24, 1699-1709	9.6	104
151	Color tuning in polymer light-emitting diodes with Lewis acids. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7495-8	16.4	99
150	Solution-Processed Ambipolar Field-Effect Transistor Based on Diketopyrrolopyrrole Functionalized with Benzothiadiazole. <i>Advanced Functional Materials</i> , 2012 , 22, 97-105	15.6	98
149	Nanostructure and Optoelectronic Characterization of Small Molecule Bulk Heterojunction Solar Cells by Photoconductive Atomic Force Microscopy. <i>Advanced Functional Materials</i> , 2010 , 20, 3314-3321	15.6	94
148	The Effect of Solvent Additive on the Charge Generation and Photovoltaic Performance of a Solution-Processed Small Molecule:Perylene Diimide Bulk Heterojunction Solar Cell. <i>Chemistry of Materials</i> , 2014 , 26, 4109-4118	9.6	93
147	Molecular solubility and hansen solubility parameters for the analysis of phase separation in bulk heterojunctions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 1405-1413	2.6	90
146	Order enables efficient electron-hole separation at an organic heterojunction with a small energy loss. <i>Nature Communications</i> , 2018 , 9, 277	17.4	87
145	Miniature Soft Electromagnetic Actuators for Robotic Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1800244	15.6	86
144	Bandgap Narrowing in Non-Fullerene Acceptors: Single Atom Substitution Leads to High Optoelectronic Response Beyond 1000 nm. <i>Advanced Energy Materials</i> , 2018 , 8, 1801212	21.8	86
143	Towards understanding the doping mechanism of organic semiconductors by Lewis acids. <i>Nature Materials</i> , 2019 , 18, 1327-1334	27	85
142	Thermally stable, highly efficient, ultraflexible organic photovoltaics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4589-4594	11.5	80
141	Design of Nonfullerene Acceptors with Near-Infrared Light Absorption Capabilities. <i>Advanced Energy Materials</i> , 2018 , 8, 1801209	21.8	79

140	Unraveling the cooperative synergy of zero-dimensional graphene quantum dots and metal nanocrystals enabled by layer-by-layer assembly. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1700-1713	13	77
139	Direct observation of doping sites in temperature-controlled, p-doped P3HT thin films by conducting atomic force microscopy. <i>Advanced Materials</i> , 2014 , 26, 6069-73	24	77
138	Synthesis and properties of two cationic narrow band gap conjugated polyelectrolytes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4163-6	16.4	77
137	Influence of alkyl substituents and thermal annealing on the film morphology and performance of solution processed, diketopyrrolopyrrole-based bulk heterojunction solar cells. <i>Energy and Environmental Science</i> , 2009 , 2, 1180	35.4	75
136	Quantifying the Nongeminate Recombination Dynamics in Nonfullerene Bulk Heterojunction Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1901438	21.8	71
135	Structure-function relationships of conjugated polyelectrolyte electron injection layers in polymer light emitting diodes. <i>Applied Physics Letters</i> , 2007 , 91, 153502	3.4	70
134	Overcoming Geminate Recombination and Enhancing Extraction in Solution-Processed Small Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400230	21.8	69
133	The role of bulk and interfacial morphology in charge generation, recombination, and extraction in non-fullerene acceptor organic solar cells. <i>Energy and Environmental Science</i> , 2020 , 13, 3679-3692	35.4	68
132	High Mobility Organic Field-Effect Transistors from Majority Insulator Blends. <i>Chemistry of Materials</i> , 2016 , 28, 1256-1260	9.6	66
131	Ionomeric control of interchain interactions, morphology, and the electronic properties of conjugated polymer solutions and films. <i>Journal of Chemical Physics</i> , 2002 , 116, 8198-8208	3.9	66
130	Capacitance Spectroscopy for Quantifying Recombination Losses in Nonfullerene Small-Molecule Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1502250	21.8	66
129	Electrical Instability Induced by Electron Trapping in Low-Bandgap Donor-Acceptor Polymer Field-Effect Transistors. <i>Advanced Materials</i> , 2015 , 27, 7004-9	24	65
128	Understanding Open-Circuit Voltage Loss through the Density of States in Organic Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1501721	21.8	65
127	Limits for Recombination in a Low Energy Loss Organic Heterojunction. <i>ACS Nano</i> , 2016 , 10, 10736-10744	46.7	64
126	Solution-processed pH-neutral conjugated polyelectrolyte improves interfacial contact in organic solar cells. <i>ACS Nano</i> , 2015 , 9, 371-7	16.7	63
125	Organic solar cells from water-soluble poly(thiophene)/fullerene heterojunction. <i>Applied Physics Letters</i> , 2007 , 90, 103514	3.4	59
124	Self-assembly of 1-D organic semiconductor nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1515-32	3.6	58
123	Triisopropylsilylethynyl-functionalized dibenzo[def,mno]chrysene: a solution-processed small molecule for bulk heterojunction solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4266-4268		57

122	Increased mobility induced by addition of a Lewis acid to a Lewis basic conjugated polymer. <i>Advanced Materials</i> , 2014 , 26, 724-7	24	56
121	The Nature of Interchain Excitations in Conjugated Polymers: Spatially-Varying Interfacial Solvatochromism of Annealed MEH-PPV Films Studied by Near-Field Scanning Optical Microscopy (NSOM). <i>Journal of Physical Chemistry B</i> , 2002 , 106, 9496-9506	3-4	53
120	The Path to 20% Power Conversion Efficiencies in Nonfullerene Acceptor Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2003441	21.8	53
119	Linear Conjugated Polymer Backbones Improve Alignment in Nanogroove-Assisted Organic Field-Effect Transistors. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17624-17631	16.4	52
118	Determining the Dielectric Constants of Organic Photovoltaic Materials Using Impedance Spectroscopy. <i>Advanced Functional Materials</i> , 2018 , 28, 1801542	15.6	52
117	Unifying Energetic Disorder from Charge Transport and Band Bending in Organic Semiconductors. <i>Advanced Functional Materials</i> , 2019 , 29, 1901109	15.6	51
116	Charge Generation and Recombination in an Organic Solar Cell with Low Energetic Offsets. <i>Advanced Energy Materials</i> , 2018 , 8, 1701073	21.8	49
115	Fluorine substitution influence on benzo[2,1,3]thiadiazole based polymers for field-effect transistor applications. <i>Chemical Communications</i> , 2016 , 52, 3207-10	5.8	48
114	The role of charge recombination to triplet excitons in organic solar cells. <i>Nature</i> , 2021 , 597, 666-671	50.4	48
113	Quantifying and Understanding Voltage Losses Due to Nonradiative Recombination in Bulk Heterojunction Organic Solar Cells with Low Energetic Offsets. <i>Advanced Energy Materials</i> , 2019 , 9, 1901077	21.8	47
112	Unifying Charge Generation, Recombination, and Extraction in Low-Offset Non-Fullerene Acceptor Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2001203	21.8	46
111	Mechanical Properties of Solution-Processed Small-Molecule Semiconductor Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11649-57	9.5	46
110	Electrical Double-Slope Nonideality in Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2018 , 28, 1707221	15.6	45
109	Measuring the competition between bimolecular charge recombination and charge transport in organic solar cells under operating conditions. <i>Energy and Environmental Science</i> , 2018 , 11, 3019-3032	35.4	45
108	Morphology control of solution processable small molecule bulk heterojunction solar cells via solvent additives. <i>RSC Advances</i> , 2012 , 2, 2232	3.7	45
107	Interplay of solvent additive concentration and active layer thickness on the performance of small molecule solar cells. <i>Advanced Materials</i> , 2014 , 26, 7308-16	24	44
106	Nanosopic interchain aggregate domain formation in conjugated polymer films studied by third harmonic generation near-field scanning optical microscopy. <i>Journal of Chemical Physics</i> , 2002 , 117, 6688-6698	3.8	43
105	Electrolyte-gated transistors for enhanced performance bioelectronics.. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		42

104	Donor-Acceptor-Collector Ternary Crystalline Films for Efficient Solid-State Photon Upconversion. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8788-8796	16.4	42
103	Hole Mobility and Electron Injection Properties of D-A Conjugated Copolymers with Fluorinated Phenylene Acceptor Units. <i>Advanced Materials</i> , 2017 , 29, 1603830	24	40
102	Doping Polymer Semiconductors by Organic Salts: Toward High-Performance Solution-Processed Organic Field-Effect Transistors. <i>ACS Nano</i> , 2018 , 12, 3938-3946	16.7	40
101	Use of a commercially available nucleating agent to control the morphological development of solution-processed small molecule bulk heterojunction organic solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15717-15721	13	40
100	Monomolecular and Bimolecular Recombination of Electron-Hole Pairs at the Interface of a Bilayer Organic Solar Cell. <i>Advanced Functional Materials</i> , 2017 , 27, 1604906	15.6	40
99	Effects of impurities on operational mechanism of organic bulk heterojunction solar cells. <i>Advanced Materials</i> , 2013 , 25, 1706-12	24	40
98	Cationic Conjugated Polyelectrolyte Electron Injection Layers: Effect of Halide Counterions. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2950-2954	3.8	38
97	Effects of Processing Conditions on the Recombination Reduction in Small Molecule Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400438	21.8	37
96	Temperature dependence of exciton diffusion in a small-molecule organic semiconductor processed with and without additive. <i>Advanced Materials</i> , 2015 , 27, 2528-32	24	35
95	Biofilm as a redox conductor: a systematic study of the moisture and temperature dependence of its electrical properties. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 17815-21	3.6	35
94	High open-circuit voltage small-molecule p-DTS(FBTTh2)2:ICBA bulk heterojunction solar cells □ morphology, excited-state dynamics, and photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1530-1539	13	33
93	Color Tuning in Polymer Light-Emitting Diodes with Lewis Acids. <i>Angewandte Chemie</i> , 2012 , 124, 7613-7616	16	32
92	Fullerene Additives Convert Ambipolar Transport to p-Type Transport while Improving the Operational Stability of Organic Thin Film Transistors. <i>Advanced Functional Materials</i> , 2016 , 26, 4472-4480	15.6	31
91	Direct measurement of electric field screening in light emitting diodes with conjugated polyelectrolyte electron injecting/transport layers. <i>Applied Physics Letters</i> , 2009 , 94, 033301	3.4	29
90	Understanding Charge Transport in Molecular Blend Films in Terms of Structural Order and Connectivity of Conductive Pathways. <i>Advanced Energy Materials</i> , 2016 , 6, 1502285	21.8	29
89	Effect of Aggregation on the Optical and Charge Transport Properties of an Anionic Conjugated Polyelectrolyte. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7054-7061	3.8	28
88	Organic Electrochemical Transistors Based on the Conjugated Polyelectrolyte PCPDTBT-SO K (CPE-K). <i>Advanced Materials</i> , 2020 , 32, e1908120	24	27
87	Interfaces in organic devices studied with resonant soft x-ray reflectivity. <i>Journal of Applied Physics</i> , 2011 , 110, 102220	2.5	27

86	Photoluminescence Quenching Probes Spin Conversion and Exciton Dynamics in Thermally Activated Delayed Fluorescence Materials. <i>Advanced Materials</i> , 2019 , 31, e1804490	24	25
85	Towards environmentally friendly processing of molecular semiconductors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11117	13	25
84	Electrochromic devices and thin film transistors from a new family of ethylenedioxythiophene based conjugated polymers. <i>New Journal of Chemistry</i> , 2011 , 35, 1327	3.6	24
83	Atomic-Level Insight into the Postsynthesis Band Gap Engineering of a Lewis Base Polymer Using Lewis Acid Tris(pentafluorophenyl)borane. <i>Chemistry of Materials</i> , 2019 , 31, 6715-6725	9.6	23
82	Bandgap Tailored Nonfullerene Acceptors for Low-Energy-Loss Near-Infrared Organic Photovoltaics 2020 , 2, 395-402		23
81	In Situ Conjugated Polyelectrolyte Formation. <i>Macromolecules</i> , 2008 , 41, 9146-9155	5.5	23
80	Charge Recombination Dynamics in Organic Photovoltaic Systems with Enhanced Dielectric Constant. <i>Advanced Functional Materials</i> , 2019 , 29, 1901269	15.6	22
79	A Ferrocene-Based Conjugated Oligoelectrolyte Catalyzes Bacterial Electrode Respiration. <i>Chem</i> , 2017 , 2, 240-257	16.2	21
78	Operational mechanism of conjugated polyelectrolytes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8500-3	16.4	20
77	Hole Transport in Diketopyrrolopyrrole (DPP) Small Molecules: A Joint Theoretical and Experimental Study. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6730-6740	3.8	20
76	Improving Electrical Stability and Ideality in Organic Field-Effect Transistors by the Addition of Fullerenes: Understanding the Working Mechanism. <i>Advanced Functional Materials</i> , 2017 , 27, 1701358	15.6	20
75	Photocurrent hysteresis by ion motion within conjugated polyelectrolyte electron transporting layers. <i>Journal of Materials Chemistry</i> , 2009 , 19, 211-214		20
74	High-k Fluoropolymer Gate Dielectric in Electrically Stable Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15821-15828	9.5	19
73	Design of narrow bandgap non-fullerene acceptors for photovoltaic applications and investigation of non-geminate recombination dynamics. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15175-15182	7.1	19
72	Rectifying electrical noise with an ionic-organic ratchet. <i>Advanced Materials</i> , 2015 , 27, 2007-12	24	19
71	PCBM Disperse-Red Ester with Strong Visible-Light Absorption: Implication of Molecular Design and Morphological Control for Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1313-1321	3.8	19
70	Complexation of a Conjugated Polyelectrolyte and Impact on Optoelectronic Properties. <i>ACS Macro Letters</i> , 2019 , 8, 88-94	6.6	19
69	Observing Ion Motion in Conjugated Polyelectrolytes with Kelvin Probe Force Microscopy. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700005	6.4	18

68	Hall of Fame Article: Solution-Processed Semitransparent Organic Photovoltaics: From Molecular Design to Device Performance (Adv. Mater. 30/2019). <i>Advanced Materials</i> , 2019 , 31, 1970219	24	18
67	Role of crystallinity of non-fullerene acceptors in bulk heterojunctions. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9989-9998	13	17
66	Aggregation-free sensitizer dispersion in rigid ionic crystals for efficient solid-state photon upconversion and demonstration of defect effects. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5609-5615	7.1	17
65	Effect of copper metalation of tetrabenzoporphyrin donor material on organic solar cell performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7890	13	17
64	Large-gain low-voltage and wideband organic photodetectors via unbalanced charge transport. <i>Materials Horizons</i> , 2020 , 7, 3234-3241	14.4	17
63	The importance of sulfonate to the self-doping mechanism of the water-soluble conjugated polyelectrolyte PCPDTBT-SO ₃ K. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 3556-3566	7.8	16
62	Single Crystal Microwires of p-DTS(FBTTh ₂) ₂ and Their Use in the Fabrication of Field-Effect Transistors and Photodetectors. <i>Advanced Functional Materials</i> , 2018 , 28, 1702073	15.6	16
61	Understanding and Countering Illumination-Sensitive Dark Current: Toward Organic Photodetectors with Reliable High Detectivity. <i>ACS Nano</i> , 2021 , 15, 1753-1763	16.7	16
60	Balance Between Light Absorption and Recombination Losses in Solution-Processed Small Molecule Solar Cells with Normal or Inverted Structures. <i>Advanced Energy Materials</i> , 2018 , 8, 1801807	21.8	15
59	Effect of structural variation on photovoltaic characteristics of phenyl substituted diketopyrrolopyrroles. <i>RSC Advances</i> , 2014 , 4, 14101-14108	3.7	14
58	Fabricating Low-Cost Ionic-Organic Electronic Ratchets with Graphite Pencil and Adhesive Tape. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500344	6.4	14
57	The effect of intermolecular interaction on excited states in p-DTS(FBTTh ₂) ₂ . <i>Journal of Chemical Physics</i> , 2016 , 144, 074904	3.9	14
56	A Simple Approach for Unraveling Optoelectronic Processes in Organic Solar Cells under Short-Circuit Conditions. <i>Advanced Energy Materials</i> , 2021 , 11, 2002760	21.8	14
55	Effect of Alkyl-Chain Length on Charge Transport Properties of Organic Semiconductors and Organic Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800175	6.4	14
54	Electron Transport and Nanomorphology in Solution-Processed Polymeric Semiconductor n-Doped with an Air-Stable Organometallic Dimer. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600546	6.4	13
53	Carrier-Selective Traps: A New Approach for Fabricating Circuit Elements with Ambipolar Organic Semiconductors. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600537	6.4	12
52	Excited State Dynamics of a Self-Doped Conjugated Polyelectrolyte. <i>Advanced Functional Materials</i> , 2020 , 30, 1906148	15.6	12
51	Understanding the Device Physics in Polymer-Based Ionic-Organic Ratchets. <i>Advanced Materials</i> , 2017 , 29, 1606464	24	11

50	Charge carrier mobility in a two-phase disordered organic system in the low-carrier concentration regime. <i>Physical Review B</i> , 2013 , 88,	3.3	11
49	Structural variations to a donor polymer with low energy losses. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18618-18626	13	11
48	Resolving Atomic-Scale Interactions in Non-Fullerene Acceptor Organic Solar Cells with Solid-State NMR Spectroscopy, Crystallographic Modelling, and Molecular Dynamics Simulations. <i>Advanced Materials</i> , 2021 , e2105943	24	11
47	Insights into Bulk-Heterojunction Organic Solar Cells Processed from Green Solvent. <i>Solar Rrl</i> , 2021 , 5, 2100213	7.1	11
46	Understanding how Lewis acids dope organic semiconductors: a "complex" story. <i>Chemical Science</i> , 2021 , 12, 7012-7022	9.4	11
45	Tuning <i>Geobacter sulfurreducens</i> biofilm with conjugated polyelectrolyte for increased performance in bioelectrochemical system. <i>Biosensors and Bioelectronics</i> , 2019 , 144, 111630	11.8	10
44	Low-Cost Nucleophilic Organic Bases as n-Dopants for Organic Field-Effect Transistors and Thermoelectric Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 2102768	15.6	10
43	Effect of Palladium-Tetrakis(Triphenylphosphine) Catalyst Traces on Charge Recombination and Extraction in Non-Fullerene-based Organic Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2009363 ^{15.6}	15.6	10
42	Tuning Optical Properties of Conjugated Molecules by Lewis Acids: Insights from Electronic Structure Modeling. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4632-4638	6.4	8
41	First-Principles Study of Electron Mobility in Cationic and Anionic Conjugated Polyelectrolytes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1205-1210	3.8	8
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