

Thuc-Quyen Nguyen

List of Publications by Year in Descending Order

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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.

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	Structural insights into Lewis acid- and F4TCNQ-doped conjugated polymers by solid-state magnetic resonance spectroscopy.. <i>Materials Horizons</i> , 2022 ,	14.4	5
192	Efficient Fabrication of Organic Electrochemical Transistors via Wet Chemical Processing.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	2
191	Solution-Processed CsPbBr Quantum Dots/Organic Semiconductor Planar Heterojunctions for High-Performance Photodetectors.. <i>Advanced Science</i> , 2022 , e2105856	13.6	4
190	Dual-mode organic electrochemical transistors based on self-doped conjugated polyelectrolytes for reconfigurable electronics.. <i>Advanced Materials</i> , 2022 , e2200274	24	1
189	Ionic Tunability of Conjugated Polyelectrolyte Solutions. <i>Macromolecules</i> , 2022 , 55, 3437-3448	5.5	2
188	Understanding the p-doping of spiroOMeTAD by tris(pentafluorophenyl)borane. <i>Electrochimica Acta</i> , 2022 , 424, 140602	6.7	2
187	Efficiency of Thermally Activated Delayed Fluorescence Sensitized Triplet Upconversion Doubled in Three-Component System. <i>Advanced Materials</i> , 2021 , e2103976	24	5
186	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
185	Electrolyte-gated transistors for enhanced performance bioelectronics.. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		42
184	Current Progress of Interfacing Organic Semiconducting Materials with Bacteria. <i>Chemical Reviews</i> , 2021 ,	68.1	7
183	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
182	Data driven discovery of conjugated polyelectrolytes for optoelectronic and photocatalytic applications. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	3
181	Optical Expediency of Back Electrode Materials for Organic Near-Infrared Photodiodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 27217-27226	9.5	4
180	Morphology Inversion of a Non-Fullerene Acceptor Via Adhesion Controlled Decal-Coating for Efficient Conversion and Detection in Organic Electronics. <i>Advanced Functional Materials</i> , 2021 , 31, 2103705	15.6	2
179	Insights into Bulk-Heterojunction Organic Solar Cells Processed from Green Solvent. <i>Solar Rrl</i> , 2021 , 5, 2100213	7.1	11
178	On Optoelectronic Processes in Organic Solar Cells: From Opaque to Transparent. <i>Advanced Optical Materials</i> , 2021 , 9, 2001484	8.1	5
177	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

176	Temperature and Light Modulated Open-Circuit Voltage in Nonfullerene Organic Solar Cells with Different Effective Bandgaps. <i>Advanced Energy Materials</i> , 2021 , 11, 2003091	21.8	8
175	The Path to 20% Power Conversion Efficiencies in Nonfullerene Acceptor Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2003441	21.8	53
174	Understanding how Lewis acids dope organic semiconductors: a "complex" story. <i>Chemical Science</i> , 2021 , 12, 7012-7022	9.4	11
173	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	10
172	The role of charge recombination to triplet excitons in organic solar cells. <i>Nature</i> , 2021 , 597, 666-671	50.4	48
171	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
170	Robust Unipolar Electron Conduction Using an Ambipolar Polymer Semiconductor with Solution-Processable Blends. <i>Chemistry of Materials</i> , 2020 , 32, 6831-6837	9.6	2
169	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
168	What is the role of planarity and torsional freedom for aggregation in a π -conjugated donor-acceptor model oligomer?. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4944-4955	7.1	3
167	Bandgap Tailored Nonfullerene Acceptors for Low-Energy-Loss Near-Infrared Organic Photovoltaics 2020 , 2, 395-402		23
166	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
165	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
164	Organic Electrochemical Transistors Based on the Conjugated Polyelectrolyte PCPDTBT-SO ₃ K (CPE-K). <i>Advanced Materials</i> , 2020 , 32, e1908120	24	27
163	Transient grating spectroscopy of photocarrier dynamics in semiconducting polymer thin films. <i>Applied Physics Letters</i> , 2020 , 117, 253302	3.4	2
162	A High-Performance Solution-Processed Organic Photodetector for Near-Infrared Sensing. <i>Advanced Materials</i> , 2020 , 32, e1906027	24	138
161	Excited State Dynamics of a Self-Doped Conjugated Polyelectrolyte. <i>Advanced Functional Materials</i> , 2020 , 30, 1906148	15.6	12
160	Orbital-Energy Modulation of Tetrabenzoporphyrin-Derived Non-Fullerene Acceptors for Improved Open-Circuit Voltage in Organic Solar Cells. <i>Journal of Organic Chemistry</i> , 2020 , 85, 168-178	4.2	5
159	Large-gain low-voltage and wideband organic photodetectors via unbalanced charge transport. <i>Materials Horizons</i> , 2020 , 7, 3234-3241	14.4	17

158	Visualization of Charge Transfer from Bacteria to a Self-Doped Conjugated Polymer Electrode Surface Using Conductive Atomic Force Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40778-40785	9.5	3
157	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
156	Conductive Polymer Work Function Changes due to Residual Water: Impact of Temperature-Dependent Dielectric Constant. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000408	6.4	3
155	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
154	Towards understanding the doping mechanism of organic semiconductors by Lewis acids. <i>Nature Materials</i> , 2019 , 18, 1327-1334	27	85
153	Fullerene derivative induced morphology of bulk heterojunction blends: PIPCP:PCBM.. <i>RSC Advances</i> , 2019 , 9, 4106-4112	3.7	7
152	Solution-Processed Semitransparent Organic Photovoltaics: From Molecular Design to Device Performance. <i>Advanced Materials</i> , 2019 , 31, e1900904	24	117
151	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
150	Charge Recombination Dynamics in Organic Photovoltaic Systems with Enhanced Dielectric Constant. <i>Advanced Functional Materials</i> , 2019 , 29, 1901269	15.6	22
149	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
148	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
147	Unifying Energetic Disorder from Charge Transport and Band Bending in Organic Semiconductors. <i>Advanced Functional Materials</i> , 2019 , 29, 1901109	15.6	51
146	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
145	Photoluminescence Quenching Probes Spin Conversion and Exciton Dynamics in Thermally Activated Delayed Fluorescence Materials. <i>Advanced Materials</i> , 2019 , 31, e1804490	24	25
144	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
143	Quantifying the Nongeminate Recombination Dynamics in Nonfullerene Bulk Heterojunction Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1901438	21.8	71
142	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
141	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

140	Tuning the Potential of Electron Extraction from Microbes with Ferrocene-Containing Conjugated Oligoelectrolytes. <i>Advanced Biology</i> , 2019 , 3, e1800303	3.5	4
139	Complexation of a Conjugated Polyelectrolyte and Impact on Optoelectronic Properties. <i>ACS Macro Letters</i> , 2019 , 8, 88-94	6.6	19
138	n-Type Ionic-Organic Electronic Ratchets for Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1081-1087	9.5	3
137	Electrical Double-Slope Nonideality in Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2018 , 28, 1707221	15.6	45
136	Miniature Soft Electromagnetic Actuators for Robotic Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1800244	15.6	86
135	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
134	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
133	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
132	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
131	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
130	Charge Generation and Recombination in an Organic Solar Cell with Low Energetic Offsets. <i>Advanced Energy Materials</i> , 2018 , 8, 1701073	21.8	49
129	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
128	Design of Nonfullerene Acceptors with Near-Infrared Light Absorption Capabilities. <i>Advanced Energy Materials</i> , 2018 , 8, 1801209	21.8	79
127	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
126	Determining the Dielectric Constants of Organic Photovoltaic Materials Using Impedance Spectroscopy. <i>Advanced Functional Materials</i> , 2018 , 28, 1801542	15.6	52
125	Mesomorphic Behavior in Silver(I) -(4-Pyridyl) Benzamide with Aromatic π -Stacking Counterions. <i>Materials</i> , 2018 , 11,	3.5	1
124	Elucidating Aggregation Pathways in the Donor-Acceptor Type Molecules p-DTS(FBTTh) and p-SIDT(FBTTh). <i>Journal of Physical Chemistry B</i> , 2018 , 122, 9191-9201	3.4	5
123	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

122	Acceptor Percolation Determines How Electron-Accepting Additives Modify Transport of Ambipolar Polymer Organic Field-Effect Transistors. <i>ACS Nano</i> , 2018 , 12, 7134-7140	16.7	7
121	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
120	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
119	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
118	Small is Powerful: Recent Progress in Solution-Processed Small Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1602242	21.8	323
117	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
116	Observing Ion Motion in Conjugated Polyelectrolytes with Kelvin Probe Force Microscopy. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700005	6.4	18
115	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
114	Understanding the Device Physics in Polymer-Based Ionic-Organic Ratchets. <i>Advanced Materials</i> , 2017 , 29, 1606464	24	11
113	A Ferrocene-Based Conjugated Oligoelectrolyte Catalyzes Bacterial Electrode Respiration. <i>Chem</i> , 2017 , 2, 240-257	16.2	21
112	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
111	Impact of interfacial molecular orientation on radiative recombination and charge generation efficiency. <i>Nature Communications</i> , 2017 , 8, 79	17.4	160
110	Structural variations to a donor polymer with low energy losses. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18618-18626	13	11
109	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
108	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
107	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
106	Semiconductor Blends: Fullerene Additives Convert Ambipolar Transport to p-Type Transport while Improving the Operational Stability of Organic Thin Film Transistors (Adv. Funct. Mater. 25/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 4616-4616	15.6	
105	Limits for Recombination in a Low Energy Loss Organic Heterojunction. <i>ACS Nano</i> , 2016 , 10, 10736-10744	16.7	64

104	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
103	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
102	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
101	High Mobility Organic Field-Effect Transistors from Majority Insulator Blends. <i>Chemistry of Materials</i> , 2016 , 28, 1256-1260	9.6	66
100	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
99	Twisted olefinic building blocks for low bandgap polymers in solar cells and ambipolar field-effect transistors. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 889-899	2.5	6
98	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
97	Fabricating Low-Cost Ionic-Organic Electronic Ratchets with Graphite Pencil and Adhesive Tape. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500344	6.4	14
96	Harvesting the Full Potential of Photons with Organic Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 1482-8	24	177
95	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
94	Towards a Unified Macroscopic Description of Exciton Diffusion in Organic Semiconductors. <i>Communications in Computational Physics</i> , 2016 , 20, 754-772	2.4	4
93	The effect of intermolecular interaction on excited states in p-DTS(FBTTh2)2. <i>Journal of Chemical Physics</i> , 2016 , 144, 074904	3.9	14
92	Mechanical Properties of Solution-Processed Small-Molecule Semiconductor Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11649-57	9.5	46
91	Polymer homo-tandem solar cells with best efficiency of 11.3%. <i>Advanced Materials</i> , 2015 , 27, 1767-73	24	386
90	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
89	Role of crystallinity of non-fullerene acceptors in bulk heterojunctions. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9989-9998	13	17
88	Solution-processed pH-neutral conjugated polyelectrolyte improves interfacial contact in organic solar cells. <i>ACS Nano</i> , 2015 , 9, 371-7	16.7	63
87	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

86	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
85	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
84	Rectifying electrical noise with an ionic-organic ratchet. <i>Advanced Materials</i> , 2015 , 27, 2007-12	24	19
83	Exciton diffusion in organic semiconductors. <i>Energy and Environmental Science</i> , 2015 , 8, 1867-1888	35.4	497
82	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
81	Organic Semiconductors: Rectifying Electrical Noise with an Ionic-Organic Ratchet (Adv. Mater. 12/2015). <i>Advanced Materials</i> , 2015 , 27, 1970-1970	24	
80	Conductive conjugated polyelectrolyte as hole-transporting layer for organic bulk heterojunction solar cells. <i>Advanced Materials</i> , 2014 , 26, 780-5	24	174
79	Overcoming Geminate Recombination and Enhancing Extraction in Solution-Processed Small Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400230	21.8	69
78	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
77	Trap-limited exciton diffusion in organic semiconductors. <i>Advanced Materials</i> , 2014 , 26, 1912-7	24	111
76	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
75	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
74	Operational mechanism of conjugated polyelectrolytes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8500-3	16.4	20
73	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
72	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
71	Effect of structural variation on photovoltaic characteristics of phenyl substituted diketopyrrolopyrroles. <i>RSC Advances</i> , 2014 , 4, 14101-14108	3.7	14
70	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
69	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

68	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
67	Mobility guidelines for high fill factor solution-processed small molecule solar cells. <i>Advanced Materials</i> , 2014 , 26, 5957-61	24	172
66	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
65	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
64	Systematic study of exciton diffusion length in organic semiconductors by six experimental methods. <i>Materials Horizons</i> , 2014 , 1, 280-285	14.4	121
63	Structural and optoelectronic properties of hybrid bulk-heterojunction materials based on conjugated small molecules and mesostructured TiO ₂ . <i>Applied Physics Letters</i> , 2014 , 104, 233305	3.4	3
62	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
61	Charge-Carrier Recombination: Effects of Processing Conditions on the Recombination Reduction in Small Molecule Bulk Heterojunction Solar Cells (Adv. Energy Mater. 14/2014). <i>Advanced Energy Materials</i> , 2014 , 4,	21.8	1
60	Towards environmentally friendly processing of molecular semiconductors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11117	13	25
59	Charge carrier recombination in organic solar cells. <i>Progress in Polymer Science</i> , 2013 , 38, 1941-1960	29.6	445
58	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
57	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
56	Film Morphology of High Efficiency Solution-Processed Small-Molecule Solar Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 5019-5026	15.6	180
55	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
54	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
53	Charge Injection Mechanism in PLEDs and Charge Transport in Conjugated Polyelectrolytes 2013 , 315-344		2
52	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
51	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

50	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
49	High light intensity effects on nanoscale open-circuit voltage for three common donor materials in bulk heterojunction solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 1766	35.4	8
48	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
47	Facile doping of anionic narrow-band-gap conjugated polyelectrolytes during dialysis. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12874-8	16.4	108
46	Effects of impurities on operational mechanism of organic bulk heterojunction solar cells. <i>Advanced Materials</i> , 2013 , 25, 1706-12	24	40
45	ORGANIC SOLAR CELL MATERIALS AND DEVICES CHARACTERIZED BY CONDUCTIVE AND PHOTOCONDUCTIVE ATOMIC FORCE MICROSCOPY. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2013 , 73-113	0.1	1
44	StructureProperty Relationships: Effects of Heteroatom Substitutions on the Crystal Structure, Film Formation, and Optoelectronic Properties of Diketopyrrolopyrrole-Based Materials (Adv. Funct. Mater. 1/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 2-2	15.6	1
43	Crystallization: Effects of Stereoisomerism on the Crystallization Behavior and Optoelectrical Properties of Conjugated Molecules (Adv. Mater. 27/2013). <i>Advanced Materials</i> , 2013 , 25, 3618-3618	24	
42	Solution-Processed Ambipolar Field-Effect Transistor Based on Diketopyrrolopyrrole Functionalized with Benzothiadiazole. <i>Advanced Functional Materials</i> , 2012 , 22, 97-105	15.6	98
41	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
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