

# Jenny Nelson

## List of Publications by Year in descending order

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377  
papers

43,704  
citations

1793

106  
h-index

2896

196  
g-index

386  
all docs

386  
docs citations

386  
times ranked

32899  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emissive Charge-Transfer States at Hybrid Inorganic/Organic Heterojunctions Enable Low Non-Radiative Recombination and High-Performance Photodetectors. <i>Advanced Materials</i> , 2022, 34, e2104654.	11.1	13
2	Highly Selective High-Speed Circularly Polarized Photodiodes Based on $\pi$ -Conjugated Polymers. <i>Advanced Optical Materials</i> , 2022, 10, 2101044.	3.6	27
3	Reconciling models of interfacial state kinetics and device performance in organic solar cells: impact of the energy offsets on the power conversion efficiency. <i>Energy and Environmental Science</i> , 2022, 15, 1256-1270.	15.6	21
4	Driftfusion: an open source code for simulating ordered semiconductor devices with mixed ionic-electronic conducting materials in one dimension. <i>Journal of Computational Electronics</i> , 2022, 21, 960-991.	1.3	16
5	Relationship between molecular properties and degradation mechanisms of organic solar cells based on bis-adducts of phenyl-C <sub>61</sub> butyric acid methyl ester. <i>Journal of Materials Chemistry C</i> , 2022, 10, 7875-7885.	2.7	2
6	The Role of Long-Alkyl-Group Spacers in Glycolated Copolymers for High-Performance Organic Electrochemical Transistors. <i>Advanced Materials</i> , 2022, 34, e2202574.	11.1	21
7	Single-junction organic solar cells with over 19% efficiency enabled by a refined double-fibril network morphology. <i>Nature Materials</i> , 2022, 21, 656-663.	13.3	1,214
8	High Power Irradiance Dependence of Charge Species Dynamics in Hybrid Perovskites and Kinetic Evidence for Transient Vibrational Stark Effect in Formamidinium. <i>Nanomaterials</i> , 2022, 12, 1616.	1.9	0
9	Identifying structure-absorption relationships and predicting absorption strength of non-fullerene acceptors for organic photovoltaics. <i>Energy and Environmental Science</i> , 2022, 15, 2958-2973.	15.6	22
10	Best practices in the measurement of circularly polarised photodetectors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 10452-10463.	2.7	9
11	Device Performance of Emerging Photovoltaic Materials (Version 1). <i>Advanced Energy Materials</i> , 2021, 11, 2002774.	10.2	93
12	A History and Perspective of Non-Fullerene Electron Acceptors for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2003570.	10.2	323
13	Influence of static disorder of charge transfer state on voltage loss in organic photovoltaics. <i>Nature Communications</i> , 2021, 12, 3642.	5.8	41
14	A Family of Superhelicenes: Easily Tunable, Chiral Nanographenes by Merging Helicity with Planar $\pi$ Systems. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18073-18081.	7.2	48
15	A Family of Superhelicenes: Easily Tunable, Chiral Nanographenes by Merging Helicity with Planar $\pi$ Systems. <i>Angewandte Chemie</i> , 2021, 133, 18221-18229.	1.6	15
16	Computational Screening of Chiral Organic Semiconductors: Exploring Side-Group Functionalization and Assembly to Optimize Charge Transport. <i>Crystal Growth and Design</i> , 2021, 21, 5036-5049.	1.4	11
17	Reversible Electrochemical Charging of n-Type Conjugated Polymer Electrodes in Aqueous Electrolytes. <i>Journal of the American Chemical Society</i> , 2021, 143, 14795-14805.	6.6	62
18	Recent Progress and Challenges toward Highly Stable Nonfullerene Acceptor-Based Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2003002.	10.2	146

#	ARTICLE	IF	CITATIONS
19	Device Performance of Emerging Photovoltaic Materials (Version 2). <i>Advanced Energy Materials</i> , 2021, 11, .	10.2	66
20	Tunable Control of the Hydrophilicity and Wettability of Conjugated Polymers by a Postpolymerization Modification Approach. <i>Macromolecular Bioscience</i> , 2020, 20, e2000087.	2.1	15
21	Ring fusion in tetrathienylethene cored perylene diimide tetramers affords acceptors with strong and broad absorption in the near-UV to visible region. <i>Journal of Materials Chemistry C</i> , 2020, 8, 17237-17244.	2.7	13
22	Relationship between Fill Factor and Light Intensity in Solar Cells Based on Organic Disordered Semiconductors: The Role of Tail States. <i>Physical Review Applied</i> , 2020, 14, .	1.5	27
23	Structure Dependence of Kinetic and Thermodynamic Parameters in Singlet Fission Processes. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9557-9565.	2.1	6
24	Correlating the Phase Behavior with the Device Performance in Binary Poly-3-hexylthiophene: Nonfullerene Acceptor Blend Using Optical Probes of the Microstructure. <i>Chemistry of Materials</i> , 2020, 32, 8294-8305.	3.2	21
25	Side-chain tuning in conjugated polymer photocatalysts for improved hydrogen production from water. <i>Energy and Environmental Science</i> , 2020, 13, 1843-1855.	15.6	92
26	The Effect of the Dielectric Environment on Electron Transfer Reactions at the Interfaces of Molecular Sensitized Semiconductors in Electrolytes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6979-6992.	1.5	8
27	Overcoming the Limitations of Transient Photovoltage Measurements for Studying Recombination in Organic Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900581.	3.1	38
28	Assessing the feasibility of carbon dioxide mitigation options in terms of energy usage. <i>Nature Energy</i> , 2020, 5, 720-728.	19.8	54
29	Energetic Control of Redox-Active Polymers toward Safe Organic Bioelectronic Materials. <i>Advanced Materials</i> , 2020, 32, e1908047.	11.1	124
30	Influence of Polymer Aggregation and Liquid Immiscibility on Morphology Tuning by Varying Composition in PffBT4T-2DT/Nonfullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1903248.	10.2	23
31	How solar cell efficiency is governed by the $\frac{1}{4}$ product. <i>Physical Review Research</i> , 2020, 2, .	1.3	17
32	Influence of Polymer Aggregation and Liquid Immiscibility on Morphology Tuning by Varying Composition in PffBT4T-2DT/Non-Fullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, .	10.2	0
33	The 2019 materials by design roadmap. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 013001.	1.3	236
34	Impact of Marginal Exciton-Charge-Transfer State Offset on Charge Generation and Recombination in Polymer:Fullerene Solar Cells. <i>ACS Energy Letters</i> , 2019, 4, 2096-2103.	8.8	24
35	Symmetry based molecular design for triplet excitation and optical spin injection. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19521-19528.	1.3	3
36	Energy materials for a low carbon future. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20190219.	1.6	1

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37	Mapping Microstructural Dynamics up to the Nanosecond of the Conjugated Polymer P3HT in the Solid State. <i>Chemistry of Materials</i> , 2019, 31, 9635-9651.	3.2	10
38	Relating Chain Conformation to the Density of States and Charge Transport in Conjugated Polymers: The Role of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mi}>I^2</\text{mml:mi}>\langle \text{mml:math}>$ -phase in Poly(9,9-dioctylfluorene). <i>Physical Review X</i> , 2019, 9, .	2.8	11
39	The Importance of Microstructure in Determining Polaron Generation Yield in Poly(9,9-dioctylfluorene). <i>Chemistry of Materials</i> , 2019, 31, 6787-6797.	3.2	16
40	Analysis of the Voltage Losses in CZTSSe Solar Cells of Varying Sn Content. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2829-2835.	2.1	38
41	Hybridization of Local Exciton and Charge-Transfer States Reduces Nonradiative Voltage Losses in Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2019, 141, 6362-6374.	6.6	307
42	Factors Controlling Open-Circuit Voltage Losses in Organic Solar Cells. <i>Trends in Chemistry</i> , 2019, 1, 49-62.	4.4	117
43	Ionic-to-electronic current amplification in hybrid perovskite solar cells: ionically gated transistor-interface circuit model explains hysteresis and impedance of mixed conducting devices. <i>Energy and Environmental Science</i> , 2019, 12, 1296-1308.	15.6	146
44	Tuning the ambipolar behaviour of organic field effect transistors via band engineering. <i>AIP Advances</i> , 2019, 9, .	0.6	20
45	Design and evaluation of conjugated polymers with polar side chains as electrode materials for electrochemical energy storage in aqueous electrolytes. <i>Energy and Environmental Science</i> , 2019, 12, 1349-1357.	15.6	136
46	Identifying Dominant Recombination Mechanisms in Perovskite Solar Cells by Measuring the Transient Ideality Factor. <i>Physical Review Applied</i> , 2019, 11, .	1.5	107
47	The influence of nitrogen position on charge carrier mobility in enantiopure aza[6]helicene crystals. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5059-5067.	1.3	12
48	Spectroscopic Investigation of the Effect of Microstructure and Energetic Offset on the Nature of Interfacial Charge Transfer States in Polymer: Fullerene Blends. <i>Journal of the American Chemical Society</i> , 2019, 141, 4634-4643.	6.6	34
49	Controlling energy levels and Fermi level en route to fully tailored energetics in organic semiconductors. <i>Nature Communications</i> , 2019, 10, 5538.	5.8	38
50	The Role of the Side Chain on the Performance of N-type Conjugated Polymers in Aqueous Electrolytes. <i>Chemistry of Materials</i> , 2018, 30, 2945-2953.	3.2	199
51	Charge Transport in Spiro-OMeTAD Investigated through Space-Charge-Limited Current Measurements. <i>Physical Review Applied</i> , 2018, 9, .	1.5	42
52	Exploring the validity and limitations of the Mott-Gurney law for charge-carrier mobility determination of semiconducting thin-films. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 105901.	0.7	102
53	A computational exploration of the crystal energy and charge-carrier mobility landscapes of the chiral [6]helicene molecule. <i>Nanoscale</i> , 2018, 10, 1865-1876.	2.8	48
54	An Alkylated Indacenodithieno[3,2-b]thiophene-Based Nonfullerene Acceptor with High Crystallinity Exhibiting Single Junction Solar Cell Efficiencies Greater than 13% with Low Voltage Losses. <i>Advanced Materials</i> , 2018, 30, 1705209.	11.1	474

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55	The role of fullerenes in the environmental stability of polymer:fullerene solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 417-428.	15.6	117
56	Understanding structure-activity relationships in linear polymer photocatalysts for hydrogen evolution. <i>Nature Communications</i> , 2018, 9, 4968.	5.8	244
57	Impact of Molecular Order on Polaron Formation in Conjugated Polymers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 29129-29140.	1.5	36
58	Polaron States in Fullerene Adducts Modeled by Coarse-Grained Molecular Dynamics and Tight Binding. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6616-6623.	2.1	10
59	Nonradiative Energy Losses in Bulk-Heterojunction Organic Photovoltaics. <i>Physical Review X</i> , 2018, 8, .	2.8	52
60	Progress in Poly (3-hexylthiophene) Organic Solar Cells and the Influence of Its Molecular Weight on Device Performance. <i>Advanced Energy Materials</i> , 2018, 8, 1801001.	10.2	95
61	Organic Solar Cells. , 2018, , 567-597.		10
62	P-type semiconductor surfactant modified zinc oxide nanorods for hybrid bulk heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 608-616.	3.0	15
63	Simultaneous topographical, electrical and optical microscopy of optoelectronic devices at the nanoscale. <i>Nanoscale</i> , 2017, 9, 2723-2731.	2.8	25
64	Influence of orientation mismatch on charge transport across grain boundaries in tri-isopropylsilylethynyl (TIPS) pentacene thin films. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10854-10862.	1.3	27
65	Photovoltaic limitations of BODIPY:fullerene based bulk heterojunction solar cells. <i>Synthetic Metals</i> , 2017, 226, 25-30.	2.1	14
66	Controlling recombination kinetics of hybrid poly-3-hexylthiophene (P3HT)/titanium dioxide solar cells by self-assembled monolayers. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 4732-4737.	1.1	12
67	Transient Optoelectronic Analysis of the Impact of Material Energetics and Recombination Kinetics on the Open-Circuit Voltage of Hybrid Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13496-13506.	1.5	76
68	Impact of Aggregation on the Photochemistry of Fullerene Films: Correlating Stability to Triplet Exciton Kinetics. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22739-22747.	4.0	27
69	Influence of the Hole Transporting Layer on the Thermal Stability of Inverted Organic Photovoltaics Using Accelerated-Heat Lifetime Protocols. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 14136-14144.	4.0	43
70	On the correct interpretation of the low voltage regime in intrinsic single-carrier devices. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 205901.	0.7	33
71	Enhancement of hole mobility in hybrid titanium dioxide/poly(3-hexylthiophene) nanocomposites by employing an oligothiophene dye as an interface modifier. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11758-11762.	2.7	12
72	Quantitative Analysis of the Molecular Dynamics of P3HT:PCBM Bulk Heterojunction. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9073-9080.	1.2	24

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73	A map to find winners. <i>Nature Materials</i> , 2017, 16, 969-970.	13.3	1
74	Emergent Properties of an Organic Semiconductor Driven by its Molecular Chirality. <i>ACS Nano</i> , 2017, 11, 8329-8338.	7.3	136
75	Quantifying local thickness and composition in thin films of organic photovoltaic blends by Raman scattering. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7270-7282.	2.7	22
76	Single Crystal, Luminescent Carbon Nitride Nanosheets Formed by Spontaneous Dissolution. <i>Nano Letters</i> , 2017, 17, 5891-5896.	4.5	76
77	The impact of chemical structure and molecular packing on the electronic polarisation of fullerene arrays. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18709-18720.	1.3	5
78	Reducing the efficiency–stability–cost gap of organic photovoltaics with highly efficient and stable small molecule acceptor ternary solar cells. <i>Nature Materials</i> , 2017, 16, 363-369.	13.3	921
79	What does CPV need to achieve in order to succeed?. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	16
80	Evidence for ion migration in hybrid perovskite solar cells with minimal hysteresis. <i>Nature Communications</i> , 2016, 7, 13831.	5.8	616
81	Exploring the origin of high optical absorption in conjugated polymers. <i>Nature Materials</i> , 2016, 15, 746-753.	13.3	314
82	New Insights into the Molecular Dynamics of P3HT:PCBM Bulk Heterojunction: A Time-of-Flight Quasi-Elastic Neutron Scattering Study. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2252-2257.	2.1	19
83	Interdye Hole Transport Accelerates Recombination in Dye Sensitized Mesoporous Films. <i>Journal of the American Chemical Society</i> , 2016, 138, 13197-13206.	6.6	35
84	Ultrafast decoherence dynamics govern photocarrier generation efficiencies in polymer solar cells. <i>Scientific Reports</i> , 2016, 6, 29437.	1.6	52
85	The environmental impact of lightweight HCPV modules: efficient design and effective deployment. <i>Progress in Photovoltaics: Research and Applications</i> , 2016, 24, 1458-1472.	4.4	12
86	Reciprocity between Charge Injection and Extraction and Its Influence on the Interpretation of Electroluminescence Spectra in Organic Solar Cells. <i>Physical Review Applied</i> , 2016, 5, .	1.5	36
87	Indolo-naphthyridine-6,13-dione Thiophene Building Block for Conjugated Polymer Electronics: Molecular Origin of Ultrahigh n-Type Mobility. <i>Chemistry of Materials</i> , 2016, 28, 8366-8378.	3.2	52
88	How mobile are dye adsorbates and acetonitrile molecules on the surface of TiO <sub>2</sub> nanoparticles? A quasi-elastic neutron scattering study. <i>Scientific Reports</i> , 2016, 6, 39253.	1.6	6
89	Low Open-Circuit Voltage Loss in Solution-Processed Small-Molecule Organic Solar Cells. <i>ACS Energy Letters</i> , 2016, 1, 302-308.	8.8	59
90	In-situ, long-term operational stability of organic photovoltaics for off-grid applications in Africa. <i>Solar Energy Materials and Solar Cells</i> , 2016, 149, 284-293.	3.0	51

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91	Experimental and theoretical optical properties of methylammonium lead halide perovskites. <i>Nanoscale</i> , 2016, 8, 6317-6327.	2.8	385
92	Quantifying Losses in Open-Circuit Voltage in Solution-Processable Solar Cells. <i>Physical Review Applied</i> , 2015, 4, .	1.5	500
93	Understanding the Effect of Unintentional Doping on Transport Optimization and Analysis in Efficient Organic Bulk-Heterojunction Solar Cells. <i>Physical Review X</i> , 2015, 5, .	2.8	18
94	The dynamics of methylammonium ions in hybrid organic-inorganic perovskite solar cells. <i>Nature Communications</i> , 2015, 6, 7124.	5.8	517
95	Influence of Surface Recombination on Charge-Carrier Kinetics in Organic Bulk Heterojunction Solar Cells with Nickel Oxide Interlayers. <i>Physical Review Applied</i> , 2015, 4, .	1.5	87
96	Influence of a nearby substrate on the reorganization energy of hole exchange between dye molecules. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7345-7354.	1.3	12
97	Fullerene oxidation and clustering in solution induced by light. <i>Journal of Colloid and Interface Science</i> , 2015, 446, 24-30.	5.0	43
98	Distinguishing the influence of structural and energetic disorder on electron transport in fullerene multi-adducts. <i>Materials Horizons</i> , 2015, 2, 113-119.	6.4	49
99	Organic photovoltaic greenhouses: a unique application for semi-transparent PV?. <i>Energy and Environmental Science</i> , 2015, 8, 1317-1328.	15.6	222
100	4H-1,2,6-Thiadiazin-4-one-containing small molecule donors and additive effects on their performance in solution-processed organic solar cells. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2358-2365.	2.7	29
101	A Rhodanine Flanked Nonfullerene Acceptor for Solution-Processed Organic Photovoltaics. <i>Journal of the American Chemical Society</i> , 2015, 137, 898-904.	6.6	446
102	The Role of Hole Transport between Dyes in Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18975-18985.	1.5	35
103	Polaron pair mediated triplet generation in polymer/fullerene blends. <i>Nature Communications</i> , 2015, 6, 6501.	5.8	74
104	Reversible Hydration of $\text{CH}_3\text{NH}_3\text{PbI}_3$ in Films, Single Crystals, and Solar Cells. <i>Chemistry of Materials</i> , 2015, 27, 3397-3407.	3.2	1,133
105	Temperature-Dependent Dynamics of Polyalkylthiophene Conjugated Polymers: A Combined Neutron Scattering and Simulation Study. <i>Chemistry of Materials</i> , 2015, 27, 7652-7661.	3.2	25
106	Influence of Intermolecular Interactions on the Reorganization Energy of Charge Transfer between Surface-Attached Dye Molecules. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24337-24341.	1.5	14
107	Dye Monolayers Used as the Hole Transporting Medium in Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2015, 27, 5889-5894.	11.1	19
108	Role of Polymer Fractionation in Energetic Losses and Charge Carrier Lifetimes of Polymer: Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19668-19673.	1.5	22



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109	Polymer/Nanocrystal Hybrid Solar Cells: Influence of Molecular Precursor Design on Film Nanomorphology, Charge Generation and Device Performance. <i>Advanced Functional Materials</i> , 2015, 25, 409-420.	7.8	44
110	Models of charge pair generation in organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2311-2325.	1.3	158
111	QUANTUM WELL SOLAR CELLS. <i>Series on Photoconversion of Solar Energy</i> , 2014, , 453-489.	0.2	5
112	Parameter free calculation of the subgap density of states in poly(3-hexylthiophene). <i>Faraday Discussions</i> , 2014, 174, 255-266.	1.6	29
113	Solution-Processed Mesoscopic Bi <sub>2</sub> S <sub>3</sub> :Polymer Photoactive Layers. <i>ChemPhysChem</i> , 2014, 15, 1019-1023.	1.0	30
114	Fluorene-based cathode interlayer polymers for high performance solution processed organic optoelectronic devices. <i>Organic Electronics</i> , 2014, 15, 1244-1253.	1.4	33
115	Electron Collection as a Limit to Polymer:PCBM Solar Cell Efficiency: Effect of Blend Microstructure on Carrier Mobility and Device Performance in PTB7:PCBM. <i>Advanced Energy Materials</i> , 2014, 4, 1400311.	10.2	151
116	The reorganization energy of intermolecular hole hopping between dyes anchored to surfaces. <i>Chemical Science</i> , 2014, 5, 281-290.	3.7	60
117	Influence of Bridging Atom and Side Chains on the Structure and Crystallinity of Cyclopentadithiophene-Benzothiadiazole Polymers. <i>Chemistry of Materials</i> , 2014, 26, 1226-1233.	3.2	50
118	Charge mobility anisotropy of functionalized pentacenes in organic field effect transistors fabricated by solution processing. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10110-10115.	2.7	34
119	Improved electronic coupling in hybrid organic-inorganic nanocomposites employing thiol-functionalized P3HT and bismuth sulfide nanocrystals. <i>Nanoscale</i> , 2014, 6, 10018-10026.	2.8	24
120	Carrier motion in as-spun and annealed P3HT:PCBM blends revealed by ultrafast optical electric field probing and Monte Carlo simulations. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2686.	1.3	25
121	Dynamic carbon mitigation analysis: the role of thin-film photovoltaics. <i>Energy and Environmental Science</i> , 2014, 7, 1810-1818.	15.6	16
122	A general mechanism for controlling thin film structures in all-conjugated block copolymer:fullerene blends. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14711-14719.	5.2	16
123	Influence of Chemical Structure on the Charge Transfer State Spectrum of a Polymer:Fullerene Complex. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8253-8261.	1.5	61
124	Spectroscopic Evaluation of Mixing and Crystallinity of Fullerenes in Bulk Heterojunctions. <i>Advanced Functional Materials</i> , 2014, 24, 6972-6980.	7.8	26
125	Worldwide outdoor round robin study of organic photovoltaic devices and modules. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 281-290.	3.0	23
126	Understanding the Apparent Charge Density Dependence of Mobility and Lifetime in Organic Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8837-8842.	1.5	57



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127	In Situ Measurement of Energy Level Shifts and Recombination Rates in Subphthalocyanine/C <sub>60</sub> Bilayer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22858-22864.	1.5	18
128	Effect of Molecular Fluctuations on Hole Diffusion within Dye Monolayers. <i>Chemistry of Materials</i> , 2014, 26, 4731-4740.	3.2	21
129	Theory of Stark spectroscopy transients from thin film organic semiconducting devices. <i>Physical Review B</i> , 2014, 89, .	1.1	13
130	Photocurrent Enhancement from Diketopyrrolopyrrole Polymer Solar Cells through Alkyl-Chain Branching Point Manipulation. <i>Journal of the American Chemical Society</i> , 2013, 135, 11537-11540.	6.6	258
131	Visualizing charge separation in bulk heterojunction organic solar cells. <i>Nature Communications</i> , 2013, 4, 2334.	5.8	158
132	Controlling Microstructure of Pentacene Derivatives by Solution Processing: Impact of Structural Anisotropy on Optoelectronic Properties. <i>ACS Nano</i> , 2013, 7, 7983-7991.	7.3	86
133	Paper No 19.2: Large-Area Printed Transparent Electrodes for Flexible Organic Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2013, 44, 282-284.	0.1	0
134	Determining the Exciton Diffusion Length in a Polyfluorene from Ultrafast Fluorescence Measurements of Polymer/Fullerene Blend Films. <i>Journal of Physical Chemistry C</i> , 2013, 117, 19832-19838.	1.5	48
135	Isostructural, Deeper Highest Occupied Molecular Orbital Analogues of Poly(3-hexylthiophene) for High-Open Circuit Voltage Organic Solar Cells. <i>Chemistry of Materials</i> , 2013, 25, 4239-4249.	3.2	55
136	The impact of molecular weight on microstructure and charge transport in semicrystalline polymer semiconductors—poly(3-hexylthiophene), a model study. <i>Progress in Polymer Science</i> , 2013, 38, 1978-1989.	11.8	274
137	Device Modelling of Organic Bulk Heterojunction Solar Cells. <i>Topics in Current Chemistry</i> , 2013, 352, 279-324.	4.0	23
138	Understanding the Effect of Donor Layer Thickness and a MoO <sub>3</sub> Hole Transport Layer on the Open-Circuit Voltage in Squaraine/C <sub>60</sub> Bilayer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013, 117, 19866-19874.	1.5	25
139	Paper No P33: Large-Area Printed Transparent Electrodes for Flexible Organic Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2013, 44, 112-114.	0.1	0
140	Factors Limiting Device Efficiency in Organic Photovoltaics. <i>Advanced Materials</i> , 2013, 25, 1847-1858.	11.1	550
141	Limits on the Fill Factor in Organic Photovoltaics: Distinguishing Nongeminate and Geminate Recombination Mechanisms. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 803-808.	2.1	102
142	Influence of doping on charge carrier collection in normal and inverted geometry polymer:fullerene solar cells. <i>Scientific Reports</i> , 2013, 3, .	1.6	65
143	Investigation of a Conjugated Polyelectrolyte Interlayer for Inverted Polymer:Fullerene Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 718-723.	10.2	92
144	Novel BODIPY-based conjugated polymers donors for organic photovoltaic applications. <i>RSC Advances</i> , 2013, 3, 10221.	1.7	33

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