

Jenny Nelson

List of Publications by Year in descending order

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377
papers

43,704
citations

1536

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2448

197
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docs citations

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times ranked

28452
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.	21.0	13
2	Highly Selective High-Speed Circularly Polarized Photodiodes Based on π -Conjugated Polymers. <i>Advanced Optical Materials</i> , 2022, 10, 2101044.	7.3	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.	30.8	21
4	Driftdiffusion: 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.	2.5	16
5	Relationship between molecular properties and degradation mechanisms of organic solar cells based on bis-adducts of phenyl-C ₆₁ butyric acid methyl ester. <i>Journal of Materials Chemistry C</i> , 2022, 10, 7875-7885.	5.5	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.	21.0	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.	27.5	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.	4.1	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.	30.8	22
10	Best practices in the measurement of circularly polarised photodetectors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 10452-10463.	5.5	9
11	Device Performance of Emerging Photovoltaic Materials (Version 1). <i>Advanced Energy Materials</i> , 2021, 11, 2002774.	19.5	93
12	A History and Perspective of Non-Fullerene Electron Acceptors for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2003570.	19.5	323
13	Influence of static disorder of charge transfer state on voltage loss in organic photovoltaics. <i>Nature Communications</i> , 2021, 12, 3642.	12.8	41
14	A Family of Superhelicenes: Easily Tunable, Chiral Nanographenes by Merging Helicity with Planar π -Systems. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18073-18081.	13.8	48
15	A Family of Superhelicenes: Easily Tunable, Chiral Nanographenes by Merging Helicity with Planar π -Systems. <i>Angewandte Chemie</i> , 2021, 133, 18221-18229.	2.0	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.	3.0	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.	13.7	62
18	Recent Progress and Challenges toward Highly Stable Nonfullerene Acceptor-Based Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2003002.	19.5	146

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19	Device Performance of Emerging Photovoltaic Materials (Version 2). Advanced Energy Materials, 2021, 11, .	19.5	66
20	Tunable Control of the Hydrophilicity and Wettability of Conjugated Polymers by a Postpolymerization Modification Approach. Macromolecular Bioscience, 2020, 20, e2000087.	4.1	15
21	Ring fusion in tetrathienylethene cored perylene diimide tetramers affords acceptors with strong and broad absorption in the near-UV to visible region. Journal of Materials Chemistry C, 2020, 8, 17237-17244.	5.5	13
22	Relationship between Fill Factor and Light Intensity in Solar Cells Based on Organic Disordered Semiconductors: The Role of Tail States. Physical Review Applied, 2020, 14, .	3.8	27
23	Structure Dependence of Kinetic and Thermodynamic Parameters in Singlet Fission Processes. Journal of Physical Chemistry Letters, 2020, 11, 9557-9565.	4.6	6
24	Correlating the Phase Behavior with the Device Performance in Binary Poly-3-hexylthiophene: Nonfullerene Acceptor Blend Using Optical Probes of the Microstructure. Chemistry of Materials, 2020, 32, 8294-8305.	6.7	21
25	Side-chain tuning in conjugated polymer photocatalysts for improved hydrogen production from water. Energy and Environmental Science, 2020, 13, 1843-1855.	30.8	92
26	The Effect of the Dielectric Environment on Electron Transfer Reactions at the Interfaces of Molecular Sensitized Semiconductors in Electrolytes. Journal of Physical Chemistry C, 2020, 124, 6979-6992.	3.1	8
27	Overcoming the Limitations of Transient Photovoltage Measurements for Studying Recombination in Organic Solar Cells. Solar Rrl, 2020, 4, 1900581.	5.8	38
28	Assessing the feasibility of carbon dioxide mitigation options in terms of energy usage. Nature Energy, 2020, 5, 720-728.	39.5	54
29	Energetic Control of Redox-Active Polymers toward Safe Organic Bioelectronic Materials. Advanced Materials, 2020, 32, e1908047.	21.0	124
30	Influence of Polymer Aggregation and Liquid Immiscibility on Morphology Tuning by Varying Composition in PffBT4T-2DT/Nonfullerene Organic Solar Cells. Advanced Energy Materials, 2020, 10, 1903248.	19.5	23
31	How solar cell efficiency is governed by the $\frac{1}{4}$ product. Physical Review Research, 2020, 2, .	3.6	17
32	Influence of Polymer Aggregation and Liquid Immiscibility on Morphology Tuning by Varying Composition in PffBT4T-2DT/Non-Fullerene Organic Solar Cells. Advanced Energy Materials, 2020, 10, .	19.5	0
33	The 2019 materials by design roadmap. Journal Physics D: Applied Physics, 2019, 52, 013001.	2.8	236
34	Impact of Marginal Exciton- Charge-Transfer State Offset on Charge Generation and Recombination in Polymer:Fullerene Solar Cells. ACS Energy Letters, 2019, 4, 2096-2103.	17.4	24
35	Symmetry based molecular design for triplet excitation and optical spin injection. Physical Chemistry Chemical Physics, 2019, 21, 19521-19528.	2.8	3
36	Energy materials for a low carbon future. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190219.	3.4	1

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37	Mapping Microstructural Dynamics up to the Nanosecond of the Conjugated Polymer P3HT in the Solid State. Chemistry of Materials, 2019, 31, 9635-9651.	6.7	10
38	Relating Chain Conformation to the Density of States and Charge Transport in Conjugated Polymers: The Role of the $\langle \cos^2 \theta \rangle$ -phase in Poly(9,9-dioctylfluorene). Physical Review X, 2019, 9, .	8.9	11
39	The Importance of Microstructure in Determining Polaron Generation Yield in Poly(9,9-dioctylfluorene). Chemistry of Materials, 2019, 31, 6787-6797.	6.7	16
40	Analysis of the Voltage Losses in CZTSSe Solar Cells of Varying Sn Content. Journal of Physical Chemistry Letters, 2019, 10, 2829-2835.	4.6	38
41	Hybridization of Local Exciton and Charge-Transfer States Reduces Nonradiative Voltage Losses in Organic Solar Cells. Journal of the American Chemical Society, 2019, 141, 6362-6374.	13.7	307
42	Factors Controlling Open-Circuit Voltage Losses in Organic Solar Cells. Trends in Chemistry, 2019, 1, 49-62.	8.5	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. Energy and Environmental Science, 2019, 12, 1296-1308.	30.8	146
44	Tuning the ambipolar behaviour of organic field effect transistors via band engineering. AIP Advances, 2019, 9, .	1.3	20
45	Design and evaluation of conjugated polymers with polar side chains as electrode materials for electrochemical energy storage in aqueous electrolytes. Energy and Environmental Science, 2019, 12, 1349-1357.	30.8	136
46	Identifying Dominant Recombination Mechanisms in Perovskite Solar Cells by Measuring the Transient Ideality Factor. Physical Review Applied, 2019, 11, .	3.8	107
47	The influence of nitrogen position on charge carrier mobility in enantiopure aza[6]helicene crystals. Physical Chemistry Chemical Physics, 2019, 21, 5059-5067.	2.8	12
48	Spectroscopic Investigation of the Effect of Microstructure and Energetic Offset on the Nature of Interfacial Charge Transfer States in Polymer: Fullerene Blends. Journal of the American Chemical Society, 2019, 141, 4634-4643.	13.7	34
49	Controlling energy levels and Fermi level en route to fully tailored energetics in organic semiconductors. Nature Communications, 2019, 10, 5538.	12.8	38
50	The Role of the Side Chain on the Performance of N-type Conjugated Polymers in Aqueous Electrolytes. Chemistry of Materials, 2018, 30, 2945-2953.	6.7	199
51	Charge Transport in Spiro-OMeTAD Investigated through Space-Charge-Limited Current Measurements. Physical Review Applied, 2018, 9, .	3.8	42
52	Exploring the validity and limitations of the Mott-Gurney law for charge-carrier mobility determination of semiconducting thin-films. Journal of Physics Condensed Matter, 2018, 30, 105901.	1.8	102
53	A computational exploration of the crystal energy and charge-carrier mobility landscapes of the chiral [6]helicene molecule. Nanoscale, 2018, 10, 1865-1876.	5.6	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. Advanced Materials, 2018, 30, 1705209.	21.0	474

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55	The role of fullerenes in the environmental stability of polymer:fullerene solar cells. Energy and Environmental Science, 2018, 11, 417-428.	30.8	117
56	Understanding structure-activity relationships in linear polymer photocatalysts for hydrogen evolution. Nature Communications, 2018, 9, 4968.	12.8	244
57	Impact of Molecular Order on Polaron Formation in Conjugated Polymers. Journal of Physical Chemistry C, 2018, 122, 29129-29140.	3.1	36
58	Polaron States in Fullerene Adducts Modeled by Coarse-Grained Molecular Dynamics and Tight Binding. Journal of Physical Chemistry Letters, 2018, 9, 6616-6623.	4.6	10
59	Nonradiative Energy Losses in Bulk-Heterojunction Organic Photovoltaics. Physical Review X, 2018, 8, .	8.9	52
60	Progress in Poly (3-hexylthiophene) Organic Solar Cells and the Influence of Its Molecular Weight on Device Performance. Advanced Energy Materials, 2018, 8, 1801001.	19.5	95
61	Organic Solar Cells. , 2018, , 567-597.		10
62	P-type semiconductor surfactant modified zinc oxide nanorods for hybrid bulk heterojunction solar cells. Solar Energy Materials and Solar Cells, 2017, 159, 608-616.	6.2	15
63	Simultaneous topographical, electrical and optical microscopy of optoelectronic devices at the nanoscale. Nanoscale, 2017, 9, 2723-2731.	5.6	25
64	Influence of orientation mismatch on charge transport across grain boundaries in tri-isopropylsilylethynyl (TIPS) pentacene thin films. Physical Chemistry Chemical Physics, 2017, 19, 10854-10862.	2.8	27
65	Photovoltaic limitations of BODIPY:fullerene based bulk heterojunction solar cells. Synthetic Metals, 2017, 226, 25-30.	3.9	14
66	Controlling recombination kinetics of hybrid poly-3-hexylthiophene (P3HT)/titanium dioxide solar cells by self-assembled monolayers. Journal of Materials Science: Materials in Electronics, 2017, 28, 4732-4737.	2.2	12
67	Transient Optoelectronic Analysis of the Impact of Material Energetics and Recombination Kinetics on the Open-Circuit Voltage of Hybrid Perovskite Solar Cells. Journal of Physical Chemistry C, 2017, 121, 13496-13506.	3.1	76
68	Impact of Aggregation on the Photochemistry of Fullerene Films: Correlating Stability to Triplet Exciton Kinetics. ACS Applied Materials & Interfaces, 2017, 9, 22739-22747.	8.0	27
69	Influence of the Hole Transporting Layer on the Thermal Stability of Inverted Organic Photovoltaics Using Accelerated-Heat Lifetime Protocols. ACS Applied Materials & Interfaces, 2017, 9, 14136-14144.	8.0	43
70	On the correct interpretation of the low voltage regime in intrinsic single-carrier devices. Journal of Physics Condensed Matter, 2017, 29, 205901.	1.8	33
71	Enhancement of hole mobility in hybrid titanium dioxide/poly(3-hexylthiophene) nanocomposites by employing an oligothiophene dye as an interface modifier. Journal of Materials Chemistry C, 2017, 5, 11758-11762.	5.5	12
72	Quantitative Analysis of the Molecular Dynamics of P3HT:PCBM Bulk Heterojunction. Journal of Physical Chemistry B, 2017, 121, 9073-9080.	2.6	24

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73	A map to find winners. Nature Materials, 2017, 16, 969-970.	27.5	1
74	Emergent Properties of an Organic Semiconductor Driven by its Molecular Chirality. ACS Nano, 2017, 11, 8329-8338.	14.6	136
75	Quantifying local thickness and composition in thin films of organic photovoltaic blends by Raman scattering. Journal of Materials Chemistry C, 2017, 5, 7270-7282.	5.5	22
76	Single Crystal, Luminescent Carbon Nitride Nanosheets Formed by Spontaneous Dissolution. Nano Letters, 2017, 17, 5891-5896.	9.1	76
77	The impact of chemical structure and molecular packing on the electronic polarisation of fullerene arrays. Physical Chemistry Chemical Physics, 2017, 19, 18709-18720.	2.8	5
78	Reducing the efficiencyâ€“stabilityâ€“cost gap of organic photovoltaics with highly efficient and stable small molecule acceptor ternary solar cells. Nature Materials, 2017, 16, 363-369.	27.5	921
79	What does CPV need to achieve in order to succeed?. AIP Conference Proceedings, 2016, , .	0.4	16
80	Evidence for ion migration in hybrid perovskite solar cells with minimal hysteresis. Nature Communications, 2016, 7, 13831.	12.8	616
81	Exploring the origin of high optical absorption in conjugated polymers. Nature Materials, 2016, 15, 746-753.	27.5	314
82	New Insights into the Molecular Dynamics of P3HT:PCBM Bulk Heterojunction: A Time-of-Flight Quasi-Elastic Neutron Scattering Study. Journal of Physical Chemistry Letters, 2016, 7, 2252-2257.	4.6	19
83	Interdye Hole Transport Accelerates Recombination in Dye Sensitized Mesoporous Films. Journal of the American Chemical Society, 2016, 138, 13197-13206.	13.7	35
84	Ultrafast decoherence dynamics govern photocarrier generation efficiencies in polymer solar cells. Scientific Reports, 2016, 6, 29437.	3.3	52
85	The environmental impact of lightweight HCPV modules: efficient design and effective deployment. Progress in Photovoltaics: Research and Applications, 2016, 24, 1458-1472.	8.1	12
86	Reciprocity between Charge Injection and Extraction and Its Influence on the Interpretation of Electroluminescence Spectra in Organic Solar Cells. Physical Review Applied, 2016, 5, .	3.8	36
87	Indolo-naphthyridine-6,13-dione Thiophene Building Block for Conjugated Polymer Electronics: Molecular Origin of Ultrahigh n-Type Mobility. Chemistry of Materials, 2016, 28, 8366-8378.	6.7	52
88	How mobile are dye adsorbates and acetonitrile molecules on the surface of TiO2 nanoparticles? A quasi-elastic neutron scattering study. Scientific Reports, 2016, 6, 39253.	3.3	6
89	Low Open-Circuit Voltage Loss in Solution-Processed Small-Molecule Organic Solar Cells. ACS Energy Letters, 2016, 1, 302-308.	17.4	59
90	In-situ, long-term operational stability of organic photovoltaics for off-grid applications in Africa. Solar Energy Materials and Solar Cells, 2016, 149, 284-293.	6.2	51

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91	Experimental and theoretical optical properties of methylammonium lead halide perovskites. <i>Nanoscale</i> , 2016, 8, 6317-6327.	5.6	385
92	Quantifying Losses in Open-Circuit Voltage in Solution-Processable Solar Cells. <i>Physical Review Applied</i> , 2015, 4, .	3.8	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, .	8.9	18
94	The dynamics of methylammonium ions in hybrid organic-inorganic perovskite solar cells. <i>Nature Communications</i> , 2015, 6, 7124.	12.8	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, .	3.8	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.	2.8	12
97	Fullerene oxidation and clustering in solution induced by light. <i>Journal of Colloid and Interface Science</i> , 2015, 446, 24-30.	9.4	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.	12.2	49
99	Organic photovoltaic greenhouses: a unique application for semi-transparent PV?. <i>Energy and Environmental Science</i> , 2015, 8, 1317-1328.	30.8	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.	5.5	29
101	A Rhodanine Flanked Nonfullerene Acceptor for Solution-Processed Organic Photovoltaics. <i>Journal of the American Chemical Society</i> , 2015, 137, 898-904.	13.7	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.	3.1	35
103	Polaron pair mediated triplet generation in polymer/fullerene blends. <i>Nature Communications</i> , 2015, 6, 6501.	12.8	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.	6.7	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.	6.7	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.	3.1	14
107	Dye Monolayers Used as the Hole Transporting Medium in Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2015, 27, 5889-5894.	21.0	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.	3.1	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.	14.9	44
110	Models of charge pair generation in organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2311-2325.	2.8	158
111	QUANTUM WELL SOLAR CELLS. Series on Photoconversion of Solar Energy, 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.	3.2	29
113	Solution-Processed Mesoscopic Bi ₂ S ₃ :Polymer Photoactive Layers. <i>ChemPhysChem</i> , 2014, 15, 1019-1023.	2.1	30
114	Fluorene-based cathode interlayer polymers for high performance solution processed organic optoelectronic devices. <i>Organic Electronics</i> , 2014, 15, 1244-1253.	2.6	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.	19.5	151
116	The reorganization energy of intermolecular hole hopping between dyes anchored to surfaces. <i>Chemical Science</i> , 2014, 5, 281-290.	7.4	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.	6.7	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.	5.5	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.	5.6	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.	2.8	25
121	Dynamic carbon mitigation analysis: the role of thin-film photovoltaics. <i>Energy and Environmental Science</i> , 2014, 7, 1810-1818.	30.8	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.	10.3	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.	3.1	61
124	Spectroscopic Evaluation of Mixing and Crystallinity of Fullerenes in Bulk Heterojunctions. <i>Advanced Functional Materials</i> , 2014, 24, 6972-6980.	14.9	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.	6.2	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.	3.1	57

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127	In Situ Measurement of Energy Level Shifts and Recombination Rates in Subphthalocyanine/C ₆₀ Bilayer Solar Cells. Journal of Physical Chemistry C, 2014, 118, 22858-22864.	3.1	18
128	Effect of Molecular Fluctuations on Hole Diffusion within Dye Monolayers. Chemistry of Materials, 2014, 26, 4731-4740.	6.7	21
129	Theory of Stark spectroscopy transients from thin film organic semiconducting devices. Physical Review B, 2014, 89, .	3.2	13
130	Photocurrent Enhancement from Diketopyrrolopyrrole Polymer Solar Cells through Alkyl-Chain Branching Point Manipulation. Journal of the American Chemical Society, 2013, 135, 11537-11540.	13.7	258
131	Visualizing charge separation in bulk heterojunction organic solar cells. Nature Communications, 2013, 4, 2334.	12.8	158
132	Controlling Microstructure of Pentacene Derivatives by Solution Processing: Impact of Structural Anisotropy on Optoelectronic Properties. ACS Nano, 2013, 7, 7983-7991.	14.6	86
133	Paper No 19.2: Large-Area Printed Transparent Electrodes for Flexible Organic Light-Emitting Diodes. Digest of Technical Papers SID International Symposium, 2013, 44, 282-284.	0.3	0
134	Determining the Exciton Diffusion Length in a Polyfluorene from Ultrafast Fluorescence Measurements of Polymer/Fullerene Blend Films. Journal of Physical Chemistry C, 2013, 117, 19832-19838.	3.1	48
135	Isostructural, Deeper Highest Occupied Molecular Orbital Analogues of Poly(3-hexylthiophene) for High-Open Circuit Voltage Organic Solar Cells. Chemistry of Materials, 2013, 25, 4239-4249.	6.7	55
136	The impact of molecular weight on microstructure and charge transport in semicrystalline polymer semiconductors—poly(3-hexylthiophene), a model study. Progress in Polymer Science, 2013, 38, 1978-1989.	24.7	274
137	Device Modelling of Organic Bulk Heterojunction Solar Cells. Topics in Current Chemistry, 2013, 352, 279-324.	4.0	23
138	Understanding the Effect of Donor Layer Thickness and a MoO ₃ Hole Transport Layer on the Open-Circuit Voltage in Squaraine/C ₆₀ Bilayer Solar Cells. Journal of Physical Chemistry C, 2013, 117, 19866-19874.	3.1	25
139	Paper No P33: Large-Area Printed Transparent Electrodes for Flexible Organic Light-Emitting Diodes. Digest of Technical Papers SID International Symposium, 2013, 44, 112-114.	0.3	0
140	Factors Limiting Device Efficiency in Organic Photovoltaics. Advanced Materials, 2013, 25, 1847-1858.	21.0	550
141	Limits on the Fill Factor in Organic Photovoltaics: Distinguishing Nongeminate and Geminate Recombination Mechanisms. Journal of Physical Chemistry Letters, 2013, 4, 803-808.	4.6	102
142	Influence of doping on charge carrier collection in normal and inverted geometry polymer:fullerene solar cells. Scientific Reports, 2013, 3, .	3.3	65
143	Investigation of a Conjugated Polyelectrolyte Interlayer for Inverted Polymer:Fullerene Solar Cells. Advanced Energy Materials, 2013, 3, 718-723.	19.5	92
144	Novel BODIPY-based conjugated polymers donors for organic photovoltaic applications. RSC Advances, 2013, 3, 10221.	3.6	33

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145	The Effect of Organic and Metal Oxide Interfacial layers on the Performance of Inverted Organic Photovoltaics. Advanced Energy Materials, 2013, 3, 391-398.	19.5	40
146	Understanding the Reduced Efficiencies of Organic Solar Cells Employing Fullerene Multiadducts as Acceptors. Advanced Energy Materials, 2013, 3, 744-752.	19.5	125
147	Organic Solar Cells. , 2013, , 443-466.		0
148	Relating Recombination, Density of States, and Device Performance in an Efficient Polymer:Fullerene Organic Solar Cell Blend. Advanced Energy Materials, 2013, 3, 1201-1209.	19.5	89
149	Influence of Crystallinity and Energetics on Charge Separation in Polymerâ€“Inorganic Nanocomposite Films for Solar Cells. Scientific Reports, 2013, 3, 1531.	3.3	84
150	On the Differences between Dark and Light Ideality Factor in Polymer:Fullerene Solar Cells. Journal of Physical Chemistry Letters, 2013, 4, 2371-2376.	4.6	227
151	Interpreting the Density of States Extracted from Organic Solar Cells Using Transient Photocurrent Measurements. Journal of Physical Chemistry C, 2013, 117, 12407-12414.	3.1	63
152	Influence of polar medium on the reorganization energy of charge transfer between dyes in a dye sensitized film. Physical Chemistry Chemical Physics, 2013, 15, 4804.	2.8	79
153	Can solar power deliver?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120372.	3.4	7
154	Post-Processing Treatments in Hybrid Polymer/Titanium Dioxide Multilayer Solar Cells. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 498-502.	0.5	7
155	Meaning of reaction orders in polymer:fullerene solar cells. Physical Review B, 2012, 86, .	3.2	199
156	Organic Solar Cells. , 2012, , 543-569.		6
157	The Influence of Substrate and Top Electrode on the Crystallization Dynamics of P3HT: PCBM Blends. Energy Procedia, 2012, 31, 60-68.	1.8	8
158	Life cycle analysis of an off-grid solar charging kiosk. , 2012, , .		1
159	Sensitivity of the Mottâ€“Schottky Analysis in Organic Solar Cells. Journal of Physical Chemistry C, 2012, 116, 7672-7680.	3.1	259
160	Competition between the Charge Transfer State and the Singlet States of Donor or Acceptor Limiting the Efficiency in Polymer:Fullerene Solar Cells. Journal of the American Chemical Society, 2012, 134, 685-692.	13.7	238
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