

Dieter Neher

List of Publications by Year in descending order

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351
papers

32,169
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2544

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times ranked

22107
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#	ARTICLE	IF	CITATIONS
1	Understanding and suppressing non-radiative losses in methylammonium-free wide-bandgap perovskite solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 714-726.	30.8	68
2	Quantification of Efficiency Losses Due to Mobile Ions in Perovskite Solar Cells via Fast Hysteresis Measurements. <i>Solar Rrl</i> , 2022, 6, .	5.8	36
3	Reply to Comment on "Enhanced Charge Selectivity via Anodic-C ₆₀ Layer Reduces Nonradiative Losses in Organic Solar Cells". <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7527-7530.	8.0	2
4	Understanding the Role of Order in Y-Series Non-Fullerene Solar Cells to Realize High Open-Circuit Voltages. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	32
5	Understanding Performance Limiting Interfacial Recombination in <i>pin</i> Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	95
6	Perovskite-organic tandem solar cells with indium oxide interconnect. <i>Nature</i> , 2022, 604, 280-286.	27.8	181
7	Wave Optics of Differential Absorption Spectroscopy in Thick-Junction Organic Solar Cells: Optical Artifacts and Correction Strategies. <i>Physical Review Applied</i> , 2022, 17, .	3.8	3
8	Revealing the doping density in perovskite solar cells and its impact on device performance. <i>Applied Physics Reviews</i> , 2022, 9, .	11.3	19
9	Effects of energetic disorder in bulk heterojunction organic solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 2806-2818.	30.8	57
10	On the Interplay between CT and Singlet Exciton Emission in Organic Solar Cells with Small Driving Force and Its Impact on Voltage Loss. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	10
11	Determination of the charge carrier density in organic solar cells: A tutorial. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	13
12	Quantifying Quasi-Fermi Level Splitting and Open-Circuit Voltage Losses in Highly Efficient Nonfullerene Organic Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2000649.	5.8	19
13	Tuning halide perovskite energy levels. <i>Energy and Environmental Science</i> , 2021, 14, 1429-1438.	30.8	124
14	A History and Perspective of Non-Fullerene Electron Acceptors for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2003570.	19.5	323
15	Bi-functional interfaces by poly(ionic liquid) treatment in efficient pin and nip perovskite solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 4508-4522.	30.8	76
16	Spin-spin interactions and spin delocalisation in a doped organic semiconductor probed by EPR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 13827-13841.	2.8	11
17	Large-Grain Double Cation Perovskites with 18 μ s Lifetime and High Luminescence Yield for Efficient Inverted Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 1045-1054.	17.4	54
18	Enhanced Charge Selectivity via Anodic-C ₆₀ Layer Reduces Nonradiative Losses in Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12603-12609.	8.0	9

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19	Adjusting the energy of interfacial states in organic photovoltaics for maximum efficiency. <i>Nature Communications</i> , 2021, 12, 1772.	12.8	27
20	27.9% Efficient Monolithic Perovskite/Silicon Tandem Solar Cells on Industry Compatible Bottom Cells. <i>Solar Rrl</i> , 2021, 5, 2100244.	5.8	59
21	Explaining the Fill Factor and Photocurrent Losses of Nonfullerene Acceptor-Based Solar Cells by Probing the Long-Range Charge Carrier Diffusion and Drift Lengths. <i>Advanced Energy Materials</i> , 2021, 11, 2100804.	19.5	23
22	Pathways toward 30% Efficient Single-Junction Perovskite Solar Cells and the Role of Mobile Ions. <i>Solar Rrl</i> , 2021, 5, 2100219.	5.8	48
23	2D/3D perovskite engineering eliminates interfacial recombination losses in hybrid perovskite solar cells. <i>CheM</i> , 2021, 7, 1903-1916.	11.7	108
24	Universal Current Losses in Perovskite Solar Cells Due to Mobile Ions. <i>Advanced Energy Materials</i> , 2021, 11, 2101447.	19.5	52
25	Halogen-Bonded Hole-Transport Material Suppresses Charge Recombination and Enhances Stability of Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2101553.	19.5	44
26	General Rules for the Impact of Energetic Disorder and Mobility on Nongeminate Recombination in Phase-Separated Organic Solar Cells. <i>Physical Review Applied</i> , 2021, 16, .	3.8	8
27	Infrared spectroscopy depth profiling of organic thin films. <i>Materials Horizons</i> , 2021, 8, 1461-1471.	12.2	10
28	Nano-emitting Heterostructures Violate Optical Reciprocity and Enable Efficient Photoluminescence in Halide-Segregated Methylammonium-Free Wide Bandgap Perovskites. <i>ACS Energy Letters</i> , 2021, 6, 419-428.	17.4	31
29	Excitons Dominate the Emission from PM6:Y6 Solar Cells, but This Does Not Help the Open-Circuit Voltage of the Device. <i>ACS Energy Letters</i> , 2021, 6, 557-564.	17.4	57
30	Roadmap on organic-inorganic hybrid perovskite semiconductors and devices. <i>APL Materials</i> , 2021, 9, .	5.1	102
31	Orders of Recombination in Complete Perovskite Solar Cells – Linking Time-Resolved and Steady-State Measurements. <i>Advanced Energy Materials</i> , 2021, 11, 2101823.	19.5	31
32	Revealing Fundamental Efficiency Limits of Monolithic Perovskite/Silicon Tandem Photovoltaics through Subcell Characterization. <i>ACS Energy Letters</i> , 2021, 6, 3982-3991.	17.4	22
33	Perfluorinated Self-Assembled Monolayers Enhance the Stability and Efficiency of Inverted Perovskite Solar Cells. <i>ACS Nano</i> , 2020, 14, 1445-1456.	14.6	115
34	Organic Solar Cells with Large Insensitivity to Donor Polymer Molar Mass across All Acceptor Classes. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5300-5308.	4.4	7
35	Halide Segregation versus Interfacial Recombination in Bromide-Rich Wide-Gap Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 2728-2736.	17.4	114
36	Defect/Interface Recombination Limited Quasi-Fermi Level Splitting and Open-Circuit Voltage in Mono- and Triple-Cation Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37647-37656.	8.0	28

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37	Putting Order into PM6:Y6 Solar Cells to Reduce the Langevin Recombination in 400-nm Thick Junction. Solar Rrl, 2020, 4, 2000498.	5.8	49
38	Monolithic perovskite/silicon tandem solar cell with >29% efficiency by enhanced hole extraction. Science, 2020, 370, 1300-1309.	12.6	1,120
39	25.1% High-Efficiency Monolithic Perovskite Silicon Tandem Solar Cell with a High Bandgap Perovskite Absorber. Solar Rrl, 2020, 4, 2000152.	5.8	81
40	Position-locking of volatile reaction products by atmosphere and capping layers slows down photodecomposition of methylammonium lead triiodide perovskite. RSC Advances, 2020, 10, 17534-17542.	3.6	16
41	Managing Phase Purities and Crystal Orientation for High-Performance and Photostable Cesium Lead Halide Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000213.	5.8	17
42	On the Origin of the Ideality Factor in Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 2000502.	19.5	175
43	Large Conduction Band Energy Offset Is Critical for High Fill Factors in Inorganic Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 2343-2348.	17.4	20
44	How To Quantify the Efficiency Potential of Neat Perovskite Films: Perovskite Semiconductors with an Implied Efficiency Exceeding 28%. Advanced Materials, 2020, 32, e2000080.	21.0	134
45	Comparing the excited-state properties of a mixed-cation mixed-halide perovskite to methylammonium lead iodide. Journal of Chemical Physics, 2020, 152, 104703.	3.0	18
46	On the Question of the Need for a Built-In Potential in Perovskite Solar Cells. Advanced Materials Interfaces, 2020, 7, 2000041.	3.7	79
47	Quantitative Analysis of Doping-Induced Polarons and Charge-Transfer Complexes of Poly(3-hexylthiophene) in Solution. Journal of Physical Chemistry B, 2020, 124, 7694-7708.	2.6	47
48	The optical signatures of molecular-doping induced polarons in poly(3-hexylthiophene-2,5-diyl): individual polymer chains versus aggregates. Journal of Materials Chemistry C, 2020, 8, 2870-2879.	5.5	32
49	Sub-picosecond charge-transfer at near-zero driving force in polymer:non-fullerene acceptor blends and bilayers. Nature Communications, 2020, 11, 833.	12.8	130
50	Barrierless Free Charge Generation in the High-Performance PM6:Y6 Bulk Heterojunction Non-Fullerene Solar Cell. Advanced Materials, 2020, 32, e1906763.	21.0	258
51	Extraordinarily long diffusion length in PM6:Y6 organic solar cells. Journal of Materials Chemistry A, 2020, 8, 7854-7860.	10.3	74
52	Perovskite semiconductors for next generation optoelectronic applications. APL Materials, 2019, 7, .	5.1	21
53	The Analysis of Sensitive Materials Using EBSD: The Importance of Beam Conditions and Detector Sensitivity. Microscopy and Microanalysis, 2019, 25, 2394-2395.	0.4	3
54	Strong light-matter coupling for reduced photon energy losses in organic photovoltaics. Nature Communications, 2019, 10, 3706.	12.8	72

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55	On the origin of open-circuit voltage losses in flexible <i>n-i-p</i> perovskite solar cells. <i>Science and Technology of Advanced Materials</i> , 2019, 20, 786-795.	6.1	15
56	The impact of energy alignment and interfacial recombination on the internal and external open-circuit voltage of perovskite solar cells. <i>Energy and Environmental Science</i> , 2019, 12, 2778-2788.	30.8	570
57	On the Relation between the Open-Circuit Voltage and Quasi-Fermi Level Splitting in Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1901631.	19.5	275
58	Charge Transport Layers Limiting the Efficiency of Perovskite Solar Cells: How To Optimize Conductivity, Doping, and Thickness. <i>ACS Applied Energy Materials</i> , 2019, 2, 6280-6287.	5.1	110
59	Nonradiative Recombination in Perovskite Solar Cells: The Role of Interfaces. <i>Advanced Materials</i> , 2019, 31, e1902762.	21.0	422
60	Decoding Charge Recombination through Charge Generation in Organic Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1900184.	5.8	41
61	Voltage-Dependent Photoluminescence and How It Correlates with the Fill Factor and Open-Circuit Voltage in Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2019, 4, 2887-2892.	17.4	86
62	Correction to "How to Make over 20% Efficient Perovskite Solar Cells in Regular (<i>n-i-p</i>) and Inverted (<i>p-i-n</i>) Architectures". <i>Chemistry of Materials</i> , 2019, 31, 8576-8576.	6.7	3
63	High open circuit voltages in pin-type perovskite solar cells through strontium addition. <i>Sustainable Energy and Fuels</i> , 2019, 3, 550-563.	4.9	57
64	Unraveling the Electronic Properties of Lead Halide Perovskites with Surface Photovoltage in Photoemission Studies. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21578-21583.	8.0	44
65	Rationalizing the Molecular Design of Hole-Selective Contacts to Improve Charge Extraction in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1900990.	19.5	56
66	Recombination between Photogenerated and Electrode-Induced Charges Dominates the Fill Factor Losses in Optimized Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3473-3480.	4.6	26
67	The Role of Bulk and Interface Recombination in High-Efficiency Low-Dimensional Perovskite Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1901090.	21.0	59
68	Impact of molecular quadrupole moments on the energy levels at organic heterojunctions. <i>Nature Communications</i> , 2019, 10, 2466.	12.8	101
69	Effect of H- and J-Aggregation on the Photophysical and Voltage Loss of Boron Dipyromethene Small Molecules in Vacuum-Deposited Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2684-2691.	4.6	32
70	Direct observation of state-filling at hybrid tin oxide/organic interfaces. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	4
71	Equilibrated Charge Carrier Populations Govern Steady-State Nongeminate Recombination in Disordered Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1374-1381.	4.6	18
72	Emissive and charge-generating donor-acceptor interfaces for organic optoelectronics with low voltage losses. <i>Nature Materials</i> , 2019, 18, 459-464.	27.5	131

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73	Mixtures of Dopant-Free Spiro-OMeTAD and Water-Free PEDOT as a Passivating Hole Contact in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9172-9181.	8.0	28
74	Impact of Bimolecular Recombination on the Fill Factor of Fullerene and Nonfullerene-Based Solar Cells: A Comparative Study of Charge Generation and Extraction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6823-6830.	3.1	20
75	Reliability of charge carrier recombination data determined with charge extraction methods. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	13
76	Energy-Gap Law for Photocurrent Generation in Fullerene-Based Organic Solar Cells: The Case of Low-Donor-Content Blends. <i>Journal of the American Chemical Society</i> , 2019, 141, 2329-2341.	13.7	54
77	Constructing the Electronic Structure of CH ₃ NH ₃ PbI ₃ and CH ₃ NH ₃ PbBr ₃ Perovskite Thin Films from Single-Crystal Band Structure Measurements. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 601-609.	4.6	78
78	Fluorination of Organic Spacer Impacts on the Structural and Optical Response of 2D Perovskites. <i>Frontiers in Chemistry</i> , 2019, 7, 946.	3.6	14
79	Impact of Triplet Excited States on the Open-Circuit Voltage of Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1800451.	19.5	36
80	Mixed Domains Enhance Charge Generation and Extraction in Bulk-Heterojunction Solar Cells with Small-Molecule Donors. <i>Advanced Energy Materials</i> , 2018, 8, 1702941.	19.5	43
81	The Role of Mobility on Charge Generation, Recombination, and Extraction in Polymer-Based Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1703355.	19.5	82
82	On the Molecular Origin of Charge Separation at the Donor-Acceptor Interface. <i>Advanced Energy Materials</i> , 2018, 8, 1702232.	19.5	51
83	Charge Generation and Recombination in an Organic Solar Cell with Low Energetic Offsets. <i>Advanced Energy Materials</i> , 2018, 8, 1701073.	19.5	60
84	From Recombination Dynamics to Device Performance: Quantifying the Efficiency of Exciton Dissociation, Charge Separation, and Extraction in Bulk Heterojunction Solar Cells with Fluorine-Substituted Polymer Donors. <i>Advanced Energy Materials</i> , 2018, 8, 1701678.	19.5	33
85	Alkyl Branching Position in Diketopyrrolopyrrole Polymers: Interplay between Fibrillar Morphology and Crystallinity and Their Effect on Photogeneration and Recombination in Bulk-Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 6801-6809.	6.7	13
86	Stark effect of hybrid charge transfer states at planar ZnO/organic interfaces. <i>Physical Review B</i> , 2018, 98, .	3.2	12
87	Boron dipyrromethene (BODIPY) with <i>meso</i> -perfluorinated alkyl substituents as near infrared donors in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18583-18591.	10.3	34
88	Probing the pathways of free charge generation in organic bulk heterojunction solar cells. <i>Nature Communications</i> , 2018, 9, 2038.	12.8	104
89	Interface Engineering of Solution-Processed Hybrid Organohalide Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21681-21687.	8.0	89
90	Visualization and suppression of interfacial recombination for high-efficiency large-area pin perovskite solar cells. <i>Nature Energy</i> , 2018, 3, 847-854.	39.5	721

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91	Cs _x FA _{1-x} Pb(I _y Br _{1-y}) ₃ Perovskite Compositions: the Appearance of Wrinkled Morphology and its Impact on Solar Cell Performance. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17123-17135.	3.1	42
92	Measuring Aging Stability of Perovskite Solar Cells. <i>Joule</i> , 2018, 2, 1019-1024.	24.0	115
93	How to Make over 20% Efficient Perovskite Solar Cells in Regular (p) and Inverted (n) Architectures. <i>Chemistry of Materials</i> , 2018, 30, 4193-4201.	6.7	473
94	Absorption Tails of Donor:C ₆₀ Blends Provide Insight into Thermally Activated Charge-Transfer Processes and Polaron Relaxation. <i>Journal of the American Chemical Society</i> , 2017, 139, 1699-1704.	13.7	73
95	Intrinsic non-radiative voltage losses in fullerene-based organic solar cells. <i>Nature Energy</i> , 2017, 2, .	39.5	494
96	Efficient Light Management by Textured Nanoimprinted Layers for Perovskite Solar Cells. <i>ACS Photonics</i> , 2017, 4, 1232-1239.	6.6	103
97	It Takes Two to Tango—Double-Layer Selective Contacts in Perovskite Solar Cells for Improved Device Performance and Reduced Hysteresis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17245-17255.	8.0	107
98	Charge Generation and Mobility-Limited Performance of Bulk Heterojunction Solar Cells with a Higher Adduct Fullerene. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10305-10316.	3.1	11
99	“The Easier the Better” Preparation of Efficient Photocatalysts—Metastable Poly(heptazine imide) Salts. <i>Advanced Materials</i> , 2017, 29, 1700555.	21.0	206
100	Approaching the fill factor Shockley–Queisser limit in stable, dopant-free triple cation perovskite solar cells. <i>Energy and Environmental Science</i> , 2017, 10, 1530-1539.	30.8	311
101	Reduced Interface-Mediated Recombination for High Open-Circuit Voltages in CH ₃ NH ₃ PbI ₃ Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1700159.	21.0	210
102	Incorporating Fluorine Substitution into Conjugated Polymers for Solar Cells: Three Different Means, Same Results. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2059-2068.	3.1	22
103	Lead Halide Perovskites as Charge Generation Layers for Electron Mobility Measurement in Organic Semiconductors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42011-42019.	8.0	5
104	Reducing Voltage Losses in Cascade Organic Solar Cells while Maintaining High External Quantum Efficiencies. <i>Advanced Energy Materials</i> , 2017, 7, 1700855.	19.5	122
105	Impact of interfacial molecular orientation on radiative recombination and charge generation efficiency. <i>Nature Communications</i> , 2017, 8, 79.	12.8	198
106	Intercalated vs Nonintercalated Morphologies in Donor–Acceptor Bulk Heterojunction Solar Cells: PBTTC:Fullerene Charge Generation and Recombination Revisited. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4061-4068.	4.6	15
107	Effect of the RC time on photocurrent transients and determination of charge carrier mobilities. <i>Journal of Applied Physics</i> , 2017, 122, 195501.	2.5	9
108	Synthesis of High-Crystallinity DPP Polymers with Balanced Electron and Hole Mobility. <i>Chemistry of Materials</i> , 2017, 29, 10220-10232.	6.7	40

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109	Potassium Poly(heptazine imides) from Aminotetrazoles: Shifting Band Gaps of Carbon Nitride-Like Materials for More Efficient Solar Hydrogen and Oxygen Evolution. <i>ChemCatChem</i> , 2017, 9, 167-174.	3.7	151
110	Dispersive and steady-state recombination in organic disordered semiconductors. <i>Physical Review B</i> , 2017, 96, .	3.2	24
111	Metal nanoparticle mediated space charge and its optical control in an organic hole-only device. <i>Applied Physics Letters</i> , 2016, 108, 153302.	3.3	4
112	Dispersive Non-Geminate Recombination in an Amorphous Polymer:Fullerene Blend. <i>Scientific Reports</i> , 2016, 6, 26832.	3.3	53
113	Free carrier generation and recombination in PbS quantum dot solar cells. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	16
114	Charge carrier recombination dynamics in perovskite and polymer solar cells. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	42
115	Dual-Characteristic Transistors Based on Semiconducting Polymer Blends. <i>Advanced Electronic Materials</i> , 2016, 2, 1600267.	5.1	20
116	Surface Structure of Semicrystalline Naphthalene Diimide-Bithiophene Copolymer Films Studied with Atomic Force Microscopy. <i>Macromolecules</i> , 2016, 49, 6549-6557.	4.8	13
117	A New Figure of Merit for Organic Solar Cells with Transport-limited Photocurrents. <i>Scientific Reports</i> , 2016, 6, 24861.	3.3	98
118	Coulomb Enhanced Charge Transport in Semicrystalline Polymer Semiconductors. <i>Advanced Functional Materials</i> , 2016, 26, 8011-8022.	14.9	24
119	p-Type Doping of Poly(3-hexylthiophene) with the Strong Lewis Acid Tris(pentafluorophenyl)borane. <i>Advanced Electronic Materials</i> , 2016, 2, 1600204.	5.1	80
120	Role of Intrinsic Photogeneration in Single Layer and Bilayer Solar Cells with C ₆₀ and PCBM. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25083-25091.	3.1	39
121	The impact of molecular weight, air exposure and molecular doping on the charge transport properties and electronic defects in dithienyl-diketopyrrolopyrrole-thieno[3,2-b]thiophene copolymers. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10827-10838.	5.5	11
122	Fluorine-containing low-energy-gap organic dyes with low voltage losses for organic solar cells. <i>Synthetic Metals</i> , 2016, 222, 232-239.	3.9	4
123	The Role of Space Charge Effects on the Competition between Recombination and Extraction in Solar Cells with Low-Mobility Photoactive Layers. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4716-4721.	4.6	37
124	Charge-Transfer-Solvent Interaction Predefines Doping Efficiency in p-Doped P3HT Films. <i>Chemistry of Materials</i> , 2016, 28, 4432-4439.	6.7	65
125	Spatial Orientation and Order of Structure-Defining Subunits in Thin Films of a High Mobility n-Type Copolymer. <i>Macromolecules</i> , 2016, 49, 1798-1806.	4.8	9
126	Effect of Solvent Additive on Generation, Recombination, and Extraction in PTB7:PCBM Solar Cells: A Conclusive Experimental and Numerical Simulation Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8310-8320.	3.1	96

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127	Hybrid Organic/Inorganic Thin-Film Multijunction Solar Cells Exceeding 11% Power Conversion Efficiency. <i>Advanced Materials</i> , 2015, 27, 1262-1267.	21.0	40
128	Light-Tunable Plasmonic Nanoarchitectures Using Gold Nanoparticle-Azobenzene-Containing Cationic Surfactant Complexes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3762-3770.	3.1	27
129	Charge Transfer Absorption and Emission at ZnO/Organic Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 500-504.	4.6	37
130	Charge transfer in and conductivity of molecularly doped thiophene-based copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 58-63.	2.1	43
131	Color-Tunable Photoluminescence and NIR Electroluminescence in Carbon Nitride Thin Films and Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2015, 3, 913-917.	7.3	115
132	Impact of charge transport on current-voltage characteristics and power-conversion efficiency of organic solar cells. <i>Nature Communications</i> , 2015, 6, 6951.	12.8	255
133	Infrared Transition Moment Orientational Analysis on the Structural Organization of the Distinct Molecular Subunits in Thin Layers of a High Mobility n-Type Copolymer. <i>Journal of the American Chemical Society</i> , 2015, 137, 6034-6043.	13.7	18
134	Competition between recombination and extraction of free charges determines the fill factor of organic solar cells. <i>Nature Communications</i> , 2015, 6, 7083.	12.8	517
135	Highly Crystalline Films of PCPDTBT with Branched Side Chains by Solvent Vapor Crystallization: Influence on Opto-Electronic Properties. <i>Advanced Materials</i> , 2015, 27, 1223-1228.	21.0	51
136	P3HT-Based Solar Cells: Structural Properties and Photovoltaic Performance. <i>Advances in Polymer Science</i> , 2014, , 181-232.	0.8	11
137	Charge Separation in PCPDTBT:PCBM Blends from an EPR Perspective. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28482-28493.	3.1	61
138	Nongeminate and Geminate Recombination in PTB7:PCBM Solar Cells. <i>Advanced Functional Materials</i> , 2014, 24, 1306-1311.	14.9	142
139	SiO ₂ /carbon nitride composite materials: The role of surfaces for enhanced photocatalysis. <i>Catalysis Today</i> , 2014, 225, 185-190.	4.4	56
140	A Conclusive View on Charge Generation, Recombination, and Extraction in As-Prepared and Annealed P3HT:PCBM Blends: Combined Experimental and Simulation Work. <i>Advanced Energy Materials</i> , 2014, 4, 1301401.	19.5	104
141	Charge Transport Anisotropy in Highly Oriented Thin Films of the Acceptor Polymer P(NDI2OD-T ₂). <i>Advanced Energy Materials</i> , 2014, 4, 1301659.	19.5	116
142	Overcoming Geminate Recombination and Enhancing Extraction in Solution-Processed Small Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400230.	19.5	76
143	On the Efficiency of Charge Transfer State Splitting in Polymer:Fullerene Solar Cells. <i>Advanced Materials</i> , 2014, 26, 2533-2539.	21.0	106
144	Organic Solar Cells: On the Efficiency of Charge Transfer State Splitting in Polymer:Fullerene Solar Cells (Adv. Mater. 16/2014). <i>Advanced Materials</i> , 2014, 26, 2607-2607.	21.0	0

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145	Correlated Donor/Acceptor Crystal Orientation Controls Photocurrent Generation in All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2014, 24, 4068-4081.	14.9	144
146	The Role of Regioregularity, Crystallinity, and Chain Orientation on Electron Transport in a High-Mobility n-Type Copolymer. <i>Journal of the American Chemical Society</i> , 2014, 136, 4245-4256.	13.7	226
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