

# Dieter Neher

## 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.

336  
papers

25,465  
citations

85  
h-index

148  
g-index

362  
ext. papers

28,474  
ext. citations

10.9  
avg, IF

7.13  
L-index

#	Paper	IF	Citations
336	Understanding Performance Limiting Interfacial Recombination in pin Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2022</b> , 2103567	21.8	13
335	Perovskite-organic tandem solar cells with indium oxide interconnect.. <i>Nature</i> , <b>2022</b> , 604, 280-286	50.4	35
334	Revealing the doping density in perovskite solar cells and its impact on device performance. <i>Applied Physics Reviews</i> , <b>2022</b> , 9, 021409	17.3	2
333	Roadmap on organic/inorganic hybrid perovskite semiconductors and devices. <i>APL Materials</i> , <b>2021</b> , 9, 109202	5.7	28
332	Enhanced Charge Selectivity via Anodic-C Layer Reduces Nonradiative Losses in Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 12603-12609	9.5	1
331	Adjusting the energy of interfacial states in organic photovoltaics for maximum efficiency. <i>Nature Communications</i> , <b>2021</b> , 12, 1772	17.4	12
330	27.9% Efficient Monolithic Perovskite/Silicon Tandem Solar Cells on Industry Compatible Bottom Cells. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100244	7.1	22
329	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> , <b>2021</b> , 11, 2100804	21.8	7
328	Pathways toward 30% Efficient Single-Junction Perovskite Solar Cells and the Role of Mobile Ions. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100219	7.1	15
327	2D/3D perovskite engineering eliminates interfacial recombination losses in hybrid perovskite solar cells. <i>Chem</i> , <b>2021</b> , 7, 1903-1916	16.2	32
326	Quantifying Quasi-Fermi Level Splitting and Open-Circuit Voltage Losses in Highly Efficient Nonfullerene Organic Solar Cells. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000649	7.1	11
325	Tuning halide perovskite energy levels. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 1429-1438	35.4	38
324	A History and Perspective of Non-Fullerene Electron Acceptors for Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003570	21.8	141
323	Spin-spin interactions and spin delocalisation in a doped organic semiconductor probed by EPR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 13827-13841	3.6	4
322	Large-Grain Double Cation Perovskites with 18 $\mu$ s Lifetime and High Luminescence Yield for Efficient Inverted Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 1045-1054	20.1	27
321	Universal Current Losses in Perovskite Solar Cells Due to Mobile Ions. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101447	21.8	10
320	Halogen-Bonded Hole-Transport Material Suppresses Charge Recombination and Enhances Stability of Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101553	21.8	13

319	General Rules for the Impact of Energetic Disorder and Mobility on Nongeminate Recombination in Phase-Separated Organic Solar Cells. <i>Physical Review Applied</i> , <b>2021</b> , 16,	4.3	4
318	Infrared spectroscopy depth profiling of organic thin films. <i>Materials Horizons</i> , <b>2021</b> , 8, 1461-1471	14.4	4
317	Nano-emitting Heterostructures Violate Optical Reciprocity and Enable Efficient Photoluminescence in Halide-Segregated Methylammonium-Free Wide Bandgap Perovskites. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 419-428	20.1	12
316	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> , <b>2021</b> , 6, 557-564	20.1	24
315	Monolithic perovskite/silicon tandem solar cell with >29% efficiency by enhanced hole extraction. <i>Science</i> , <b>2020</b> , 370, 1300-1309	33.3	438
314	25.1% High-Efficiency Monolithic Perovskite Silicon Tandem Solar Cell with a High Bandgap Perovskite Absorber. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000152	7.1	39
313	Position-locking of volatile reaction products by atmosphere and capping layers slows down photodecomposition of methylammonium lead triiodide perovskite.. <i>RSC Advances</i> , <b>2020</b> , 10, 17534-17542	3.7	10
312	Managing Phase Purities and Crystal Orientation for High-Performance and Photostable Cesium Lead Halide Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000213	7.1	11
311	On the Origin of the Ideality Factor in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 20005028	0.28	78
310	Large Conduction Band Energy Offset Is Critical for High Fill Factors in Inorganic Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2343-2348	20.1	11
309	How To Quantify the Efficiency Potential of Neat Perovskite Films: Perovskite Semiconductors with an Implied Efficiency Exceeding 28. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000080	24	75
308	Comparing the excited-state properties of a mixed-cation-mixed-halide perovskite to methylammonium lead iodide. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 104703	3.9	8
307	On the Question of the Need for a Built-In Potential in Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000041	4.6	33
306	Quantitative Analysis of Doping-Induced Polarons and Charge-Transfer Complexes of Poly(3-hexylthiophene) in Solution. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 7694-7708	3.4	22
305	The optical signatures of molecular-doping induced polarons in poly(3-hexylthiophene-2,5-diyl): individual polymer chains versus aggregates. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 2870-2879	7.1	19
304	Sub-picosecond charge-transfer at near-zero driving force in polymer:non-fullerene acceptor blends and bilayers. <i>Nature Communications</i> , <b>2020</b> , 11, 833	17.4	80
303	Barrierless Free Charge Generation in the High-Performance PM6:Y6 Bulk Heterojunction Non-Fullerene Solar Cell. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906763	24	169
302	Extraordinarily long diffusion length in PM6:Y6 organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 7854-7860	13	43

301	Perfluorinated Self-Assembled Monolayers Enhance the Stability and Efficiency of Inverted Perovskite Solar Cells. <i>ACS Nano</i> , <b>2020</b> , 14, 1445-1456	16.7	74
300	Organic Solar Cells with Large Insensitivity to Donor Polymer Molar Mass across All Acceptor Classes. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 5300-5308	4.3	5
299	Halide Segregation versus Interfacial Recombination in Bromide-Rich Wide-Gap Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2728-2736	20.1	54
298	Defect/Interface Recombination Limited Quasi-Fermi Level Splitting and Open-Circuit Voltage in Mono- and Triple-Cation Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 37647-37656	9.5	16
297	Putting Order into PM6:Y6 Solar Cells to Reduce the Langevin Recombination in 400 nm Thick Junction. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000498	7.1	30
296	High open circuit voltages in pin-type perovskite solar cells through strontium addition. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 550-563	5.8	42
295	Unraveling the Electronic Properties of Lead Halide Perovskites with Surface Photovoltage in Photoemission Studies. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 21578-21583	9.5	31
294	Rationalizing the Molecular Design of Hole-Selective Contacts to Improve Charge Extraction in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900990	21.8	37
293	Recombination between Photogenerated and Electrode-Induced Charges Dominates the Fill Factor Losses in Optimized Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 3473-3480	6.4	17
292	The Role of Bulk and Interface Recombination in High-Efficiency Low-Dimensional Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901090	24	36
291	Impact of molecular quadrupole moments on the energy levels at organic heterojunctions. <i>Nature Communications</i> , <b>2019</b> , 10, 2466	17.4	56
290	Effect of H- and J-Aggregation on the Photophysical and Voltage Loss of Boron Dipyrromethene Small Molecules in Vacuum-Deposited Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 2684-2691	6.4	21
289	Direct observation of state-filling at hybrid tin oxide/organic interfaces. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 183301	3.4	3
288	Equilibrated Charge Carrier Populations Govern Steady-State Nongeminate Recombination in Disordered Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 1374-1381	6.4	14
287	Emissive and charge-generating donor-acceptor interfaces for organic optoelectronics with low voltage losses. <i>Nature Materials</i> , <b>2019</b> , 18, 459-464	27	89
286	Mixtures of Dopant-Free Spiro-OMeTAD and Water-Free PEDOT as a Passivating Hole Contact in Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 9172-9181	9.5	23
285	Fluorination of Organic Spacer Impacts on the Structural and Optical Response of 2D Perovskites. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 946	5	9
284	Perovskite semiconductors for next generation optoelectronic applications. <i>APL Materials</i> , <b>2019</b> , 7, 080401	5.7	14

283	The Analysis of Sensitive Materials Using EBSD: The Importance of Beam Conditions and Detector Sensitivity. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 2394-2395	0.5	3
282	Strong light-matter coupling for reduced photon energy losses in organic photovoltaics. <i>Nature Communications</i> , <b>2019</b> , 10, 3706	17.4	43
281	On the origin of open-circuit voltage losses in flexible perovskite solar cells. <i>Science and Technology of Advanced Materials</i> , <b>2019</b> , 20, 786-795	7.1	10
280	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> , <b>2019</b> , 12, 2778-2788	35.4	348
279	On the Relation between the Open-Circuit Voltage and Quasi-Fermi Level Splitting in Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901631	21.8	145
278	Charge Transport Layers Limiting the Efficiency of Perovskite Solar Cells: How To Optimize Conductivity, Doping, and Thickness. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6280-6287	6.1	67
277	Nonradiative Recombination in Perovskite Solar Cells: The Role of Interfaces. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902762	24	226
276	Decoding Charge Recombination through Charge Generation in Organic Solar Cells. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900184	7.1	29
275	Voltage-Dependent Photoluminescence and How It Correlates with the Fill Factor and Open-Circuit Voltage in Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2887-2892	20.1	53
274	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> , <b>2019</b> , 123, 6823-6830	3.8	17
273	Reliability of charge carrier recombination data determined with charge extraction methods. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 205501	2.5	9
272	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> , <b>2019</b> , 141, 2329-2341	16.4	36
271	Constructing the Electronic Structure of CHNHPbI and CHNHPbBr Perovskite Thin Films from Single-Crystal Band Structure Measurements. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 601-609	6.4	55
270	Impact of Triplet Excited States on the Open-Circuit Voltage of Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800451	21.8	33
269	Mixed Domains Enhance Charge Generation and Extraction in Bulk-Heterojunction Solar Cells with Small-Molecule Donors. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702941	21.8	34
268	The Role of Mobility on Charge Generation, Recombination, and Extraction in Polymer-Based Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703355	21.8	58
267	On the Molecular Origin of Charge Separation at the Donor-Acceptor Interface. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702232	21.8	45
266	Charge Generation and Recombination in an Organic Solar Cell with Low Energetic Offsets. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701073	21.8	49

265	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> , <b>2018</b> , 8, 1701678	21.8	24
264	Visualization and suppression of interfacial recombination for high-efficiency large-area pin perovskite solar cells. <i>Nature Energy</i> , <b>2018</b> , 3, 847-854	62.3	476
263	CsxFA1-xPb(I1-xBrx)3 Perovskite Compositions: the Appearance of Wrinkled Morphology and its Impact on Solar Cell Performance. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 17123-17135	3.8	31
262	Measuring Aging Stability of Perovskite Solar Cells. <i>Joule</i> , <b>2018</b> , 2, 1019-1024	27.8	83
261	How to Make over 20% Efficient Perovskite Solar Cells in Regular (n-i-p) and Inverted (p-i-n) Architectures. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4193-4201	9.6	339
260	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> , <b>2018</b> , 30, 6801-6809	9.6	9
259	Stark effect of hybrid charge transfer states at planar ZnO/organic interfaces. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	10
258	Boron dipyrromethene (BODIPY) with meso-perfluorinated alkyl substituents as near infrared donors in organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18583-18591	13	21
257	Probing the pathways of free charge generation in organic bulk heterojunction solar cells. <i>Nature Communications</i> , <b>2018</b> , 9, 2038	17.4	82
256	Interface Engineering of Solution-Processed Hybrid Organohalide Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 21681-21687	9.5	62
255	Absorption Tails of Donor:C Blends Provide Insight into Thermally Activated Charge-Transfer Processes and Polaron Relaxation. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 1699-1704	16.4	55
254	Intrinsic non-radiative voltage losses in fullerene-based organic solar cells. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	362
253	Efficient Light Management by Textured Nanoimprinted Layers for Perovskite Solar Cells. <i>ACS Photonics</i> , <b>2017</b> , 4, 1232-1239	6.3	80
252	It Takes Two to Tango-Double-Layer Selective Contacts in Perovskite Solar Cells for Improved Device Performance and Reduced Hysteresis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 17245-17255	29.5	99
251	Charge Generation and Mobility-Limited Performance of Bulk Heterojunction Solar Cells with a Higher Adduct Fullerene. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 10305-10316	3.8	9
250	"The Easier the Better" Preparation of Efficient Photocatalysts-Metastable Poly(heptazine imide) Salts. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700555	24	110
249	Approaching the fill factor Shockley-Queisser limit in stable, dopant-free triple cation perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1530-1539	35.4	233
248	Reduced Interface-Mediated Recombination for High Open-Circuit Voltages in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700159	24	163

247	Incorporating Fluorine Substitution into Conjugated Polymers for Solar Cells: Three Different Means, Same Results. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 2059-2068	3.8	20
246	Lead Halide Perovskites as Charge Generation Layers for Electron Mobility Measurement in Organic Semiconductors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 42011-42019	9.5	4
245	Reducing Voltage Losses in Cascade Organic Solar Cells while Maintaining High External Quantum Efficiencies. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700855	21.8	104
244	Impact of interfacial molecular orientation on radiative recombination and charge generation efficiency. <i>Nature Communications</i> , <b>2017</b> , 8, 79	17.4	160
243	Intercalated vs Nonintercalated Morphologies in Donor-Acceptor Bulk Heterojunction Solar Cells: PBTTT:Fullerene Charge Generation and Recombination Revisited. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 4061-4068	6.4	14
242	Effect of the RC time on photocurrent transients and determination of charge carrier mobilities. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 195501	2.5	5
241	Synthesis of High-Crystallinity DPP Polymers with Balanced Electron and Hole Mobility. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 10220-10232	9.6	29
240	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> , <b>2017</b> , 9, 167-174	5.2	110
239	Dispersive and steady-state recombination in organic disordered semiconductors. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	20
238	Surface Structure of Semicrystalline Naphthalene DiimideBithiophene Copolymer Films Studied with Atomic Force Microscopy. <i>Macromolecules</i> , <b>2016</b> , 49, 6549-6557	5.5	12
237	A New Figure of Merit for Organic Solar Cells with Transport-limited Photocurrents. <i>Scientific Reports</i> , <b>2016</b> , 6, 24861	4.9	79
236	Coulomb Enhanced Charge Transport in Semicrystalline Polymer Semiconductors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8011-8022	15.6	20
235	p-Type Doping of Poly(3-hexylthiophene) with the Strong Lewis Acid Tris(pentafluorophenyl)borane. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600204	6.4	61
234	Role of Intrinsic Photogeneration in Single Layer and Bilayer Solar Cells with C60 and PCBM. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 25083-25091	3.8	34
233	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> , <b>2016</b> , 4, 10827-10838	7.1	10
232	Fluorine-containing low-energy-gap organic dyes with low voltage losses for organic solar cells. <i>Synthetic Metals</i> , <b>2016</b> , 222, 232-239	3.6	3
231	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> , <b>2016</b> , 7, 4716-4721	6.4	32
230	Charge-TransferSolvent Interaction Predefines Doping Efficiency in p-Doped P3HT Films. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4432-4439	9.6	51

229	Spatial Orientation and Order of Structure-Defining Subunits in Thin Films of a High Mobility n-Type Copolymer. <i>Macromolecules</i> , <b>2016</b> , 49, 1798-1806	5.5	9
228	Metal nanoparticle mediated space charge and its optical control in an organic hole-only device. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 153302	3.4	4
227	Dispersive Non-Geminate Recombination in an Amorphous Polymer:Fullerene Blend. <i>Scientific Reports</i> , <b>2016</b> , 6, 26832	4.9	45
226	Free carrier generation and recombination in PbS quantum dot solar cells. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 103102	3.4	11
225	Charge carrier recombination dynamics in perovskite and polymer solar cells. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 113505	3.4	38
224	Dual-Characteristic Transistors Based on Semiconducting Polymer Blends. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600267	6.4	18
223	Light-Tunable Plasmonic Nanoarchitectures Using Gold Nanoparticle-Azobenzene-Containing Cationic Surfactant Complexes. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 3762-3770	3.8	26
222	Charge Transfer Absorption and Emission at ZnO/Organic Interfaces. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 500-4	6.4	32
221	Charge transfer in and conductivity of molecularly doped thiophene-based copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2015</b> , 53, 58-63	2.6	34
220	Color-Tunable Photoluminescence and NIR Electroluminescence in Carbon Nitride Thin Films and Light-Emitting Diodes. <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 913-917	8.1	94
219	Impact of charge transport on current-voltage characteristics and power-conversion efficiency of organic solar cells. <i>Nature Communications</i> , <b>2015</b> , 6, 6951	17.4	202
218	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> , <b>2015</b> , 137, 6034-43	16.4	15
217	Competition between recombination and extraction of free charges determines the fill factor of organic solar cells. <i>Nature Communications</i> , <b>2015</b> , 6, 7083	17.4	433
216	Highly crystalline films of PCPDTBT with branched side chains by solvent vapor crystallization: influence on opto-electronic properties. <i>Advanced Materials</i> , <b>2015</b> , 27, 1223-8	24	45
215	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> , <b>2015</b> , 119, 8310-8320	3.8	87
214	Hybrid organic/inorganic thin-film multijunction solar cells exceeding 11% power conversion efficiency. <i>Advanced Materials</i> , <b>2015</b> , 27, 1262-7	24	38
213	SiO <sub>2</sub> /carbon nitride composite materials: The role of surfaces for enhanced photocatalysis. <i>Catalysis Today</i> , <b>2014</b> , 225, 185-190	5.3	51
212	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> , <b>2014</b> , 4, 1301401	21.8	92



211	Charge Transport Anisotropy in Highly Oriented Thin Films of the Acceptor Polymer P(NDI2OD-T2). <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301659	21.8	100
210	Overcoming Geminate Recombination and Enhancing Extraction in Solution-Processed Small Molecule Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400230	21.8	69
209	On the efficiency of charge transfer state splitting in polymer:fullerene solar cells. <i>Advanced Materials</i> , <b>2014</b> , 26, 2533-9	24	94
208	Organic Solar Cells: On the Efficiency of Charge Transfer State Splitting in Polymer:Fullerene Solar Cells (Adv. Mater. 16/2014). <i>Advanced Materials</i> , <b>2014</b> , 26, 2607-2607	24	
207	Correlated Donor/Acceptor Crystal Orientation Controls Photocurrent Generation in All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4068-4081	15.6	129
206	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> , <b>2014</b> , 136, 4245-56	16.4	200
205	Efficient charge generation by relaxed charge-transfer states at organic interfaces. <i>Nature Materials</i> , <b>2014</b> , 13, 63-8	27	584
204	In Situ Formation of Heterojunctions in Modified Graphitic Carbon Nitride: Synthesis and Noble Metal Free Photocatalysis. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 5812-5818	9.6	164
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