Moritz K Riede

List of Publications by Year in Descending Order

175 papers	9,562 citations	50 h-index	95 g-index
189 ext. papers	10,463 ext. citations	7.8 avg, IF	6.11 L-index

#	Paper	IF	Citations
175	Charge transfer state characterization and voltage losses of organic solar cells. *JPhys Materials*, **2022**, 5, 024002	4.2	3
174	A liquid-crystalline non-fullerene acceptor enabling high-performance organic solar cells. *Journal of Materials Chemistry A*, **2021**, 9, 26917-26928	13	0
173	Assessing the Photovoltaic Quality of Vacuum-Thermal Evaporated Organic Semiconductor Blends. *Advanced Materials*, **2021**, e2107584	24	0
172	Perspectives of Organic and Perovskite-Based Spintronics. *Advanced Optical Materials*, **2021**, 9, 21002158.1		12
171	Studying the Effect of High Substrate Temperature on the Microstructure of Vacuum Evaporated TAPC: C Organic Solar Thin Films. *Materials*, **2021**, 14,	3.5	2
170	Adduct-based p-doping of organic semiconductors. *Nature Materials*, **2021**, 20, 1248-1254	27	18
169	Organic Electronics and Beyond. *Advanced Optical Materials*, **2021**, 9, 2101108	8.1	1
168	Organic Solar Cells The Path to Commercial Success. *Advanced Energy Materials*, **2021**, 11, 2002653	21.8	90
167	Electron spin as fingerprint for charge generation and transport in doped organic semiconductors. *Journal of Materials Chemistry C*, **2021**, 9, 2944-2954	7.1	5
166	The role of spin in the degradation of organic photovoltaics. *Nature Communications*, **2021**, 12, 471	17.4	5
165	Chain Conformation Control of Fluorene-Benzothiadiazole Copolymer Light-Emitting Diode Efficiency and Lifetime. *ACS Applied Materials & Interfaces*, **2021**, 13, 2919-2931	9.5	2
164	Direct observation and evolution of electronic coupling between organic semiconductors. *Physical Review Materials*, **2021**, 5,	3.2	1
163	Perspectives of Organic and Perovskite-Based Spintronics (Advanced Optical Materials 14/2021). *Advanced Optical Materials*, **2021**, 9, 2170053	8.1	
162	The role of charge recombination to triplet excitons in organic solar cells. *Nature*, **2021**, 597, 666-671	50.4	48
161	Ultrafast Charge Dynamics in Dilute-Donor versus Highly Intermixed TAPC:C Organic Solar Cell Blends. *Journal of Physical Chemistry Letters*, **2020**, 11, 5610-5617	6.4	8
160	In Situ Observations of the Growth Mode of Vacuum-Deposited Sexithiophene. *Journal of Physical Chemistry C*, **2020**, 124, 11863-11869	3.8	4
159	Efficiency enhancement of small molecule organic solar cells using hexapropyltruxene as an interface layer. *Journal of Materials Chemistry C*, **2020**, 8, 4909-4918	7.1	2

158	Azetidinium as cation in lead mixed halide perovskite nanocrystals of optoelectronic quality. *AIP Advances*, **2020**, 10, 025001	1.5	
157	Filamentary High-Resolution Electrical Probes for Nanoengineering. *Nano Letters*, **2020**, 20, 1067-1073	11.5	2
156	Molecular doped organic semiconductor crystals for optoelectronic device applications. *Journal of Materials Chemistry C*, **2020**, 8, 14996-15008	7.1	11
155	Molecular Quadrupole Moments Promote Ground-State Charge Generation in Doped Organic Semiconductors. *Advanced Functional Materials*, **2020**, 30, 2004600	15.6	10
154	Tuning the ambipolar behaviour of organic field effect transistors via band engineering. *AIP Advances*, **2019**, 9, 035202	1.5	13
153	Controlling energy levels and Fermi level en route to fully tailored energetics in organic semiconductors. *Nature Communications*, **2019**, 10, 5538	17.4	25
152	Solubilization of Carbon Nanotubes with Ethylene-Vinyl Acetate for Solution-Processed Conductive Films and Charge Extraction Layers in Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 1185-1191	9.5	18
151	Naphthalenetetracarboxylic Diimide Derivatives: Molecular Structure, Thin Film Properties and Solar Cell Applications. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 1717-1732	3.1	4
150	Femtosecond Dynamics of Photoexcited C Films. *Journal of Physical Chemistry Letters*, **2018**, 9, 1885-1892	6.4	19
149	Organic Semiconductors ? **2018**,		1
148	Modification of the fluorinated tin oxide/electron-transporting material interface by a strong reductant and its effect on perovskite solar cell efficiency. *Molecular Systems Design and Engineering*, **2018**, 3, 741-747	4.6	7
147	Carbon Nanotubes for Quantum Dot Photovoltaics with Enhanced Light Management and Charge Transport. *ACS Photonics*, **2018**, 5, 4854-4863	6.3	3
146	Hole Transport in Low-Donor-Content Organic Solar Cells. *Journal of Physical Chemistry Letters*, **2018**, 9, 5496-5501	6.4	28
145	Key Tradeoffs Limiting the Performance of Organic Photovoltaics. *Advanced Energy Materials*, **2018**, 8, 1703551	21.8	44
144	Exciton Diffusion Length and Charge Extraction Yield in Organic Bilayer Solar Cells. *Advanced Materials*, **2017**, 29, 1604424	24	25
143	Intrinsic non-radiative voltage losses in fullerene-based organic solar cells. *Nature Energy*, **2017**, 2,	62.3	362
142	Dicyanovinylene-Substituted Oligothiophenes for Organic Solar Cells. *Advances in Polymer Science*, **2017**, 51-75	1.3	5
141	MINERVA: A facility to study Microstructure and INterface Evolution in Realtime under VAcuum. *Review of Scientific Instruments*, **2017**, 88, 103901	1.7	8

140	In-situ observation of stacking fault evolution in vacuum-deposited C60. *Applied Physics Letters*, **2017**, 111, 233305	3.4	4
139	Cross-Linkable Fullerene Derivatives for Solution-Processed n-i-p Perovskite Solar Cells. *ACS Energy Letters*, **2016**, 1, 648-653	20.1	60
138	Structured Organic-Inorganic Perovskite toward a Distributed Feedback Laser. *Advanced Materials*, **2016**, 28, 923-9	24	209
137	Reply to 'Tandem organic solar cells revisited'. *Nature Photonics*, **2016**, 10, 355-355	33.9	4
136	Mixed interlayers at the interface between PEDOT:PSS and conjugated polymers provide charge transport control. *Journal of Materials Chemistry C*, **2015**, 3, 2664-2676	7.1	23
135	Characterization of tandem organic solar cells. *Nature Photonics*, **2015**, 9, 478-479	33.9	42
134	Enhanced Amplified Spontaneous Emission in Perovskites Using a Flexible Cholesteric Liquid Crystal Reflector. *Nano Letters*, **2015**, 15, 4935-41	11.5	97
133	A charge carrier transport model for donor-acceptor blend layers. *Journal of Applied Physics*, **2015**, 117, 045501	2.5	11
132	Determining doping efficiency and mobility from conductivity and Seebeck data of n-doped C60 layers. *Physica Status Solidi (B): Basic Research*, **2015**, 252, 1877-1883	1.3	11
131	Experimental and theoretical study of phase separation in ZnPc:C60 blends. *Organic Electronics*, **2015**, 27, 183-191	3.5	4
130	Optical properties and limiting photocurrent of thin-film perovskite solar cells. *Energy and Environmental Science*, **2015**, 8, 602-609	35.4	335
129	Doped-carbazolocarbazoles as hole transporting materials in small molecule solar cells with different architectures. *Organic Electronics*, **2015**, 17, 28-32	3.5	6
128	Characterization of tandem organic solar cells comprising subcells of identical absorber material. *Progress in Photovoltaics: Research and Applications*, **2015**, 23, 1353-1356	6.8	7
127	Measurement of Small Molecular Dopant F4TCNQ and C60F36 Diffusion in Organic Bilayer Architectures. *ACS Applied Materials & Interfaces*, **2015**, 7, 28420-8	9.5	71
126	Increased open-circuit voltage of organic solar cells by reduced donor-acceptor interface area. *Advanced Materials*, **2014**, 26, 3839-43	24	152
125	Highly efficient p-dopants in amorphous hosts. *Organic Electronics*, **2014**, 15, 365-371	3.5	32
124	Efficient charge generation by relaxed charge-transfer states at organic interfaces. *Nature Materials*, **2014**, 13, 63-8	27	584
123	Direct Electrical Evidence of Plasmonic Near-Field Enhancement in Small Molecule Organic Solar Cells. *Journal of Physical Chemistry C*, **2014**, 118, 15128-15135	3.8	19

122	Exploiting diffusion currents at Ohmic contacts for trap characterization in organic semiconductors. *Organic Electronics*, **2014**, 15, 2428-2432	3.5	9
121	Electroabsorption studies of organic p-i-n solar cells: Increase of the built-in voltage by higher doping concentration in the hole transport layer. *Organic Electronics*, **2014**, 15, 563-568	3.5	19
120	Correlation between temperature activation of charge-carrier generation efficiency and hole mobility in small-molecule donor materials. *ChemPhysChem*, **2014**, 15, 1049-55	3.2	4
119	Electroabsorption studies of organic p-i-n solar cells: evaluating the built-in voltage. *Materials Research Society Symposia Proceedings*, **2014**, 1639, 1		2
118	Molecular doping for control of gate bias stress in organic thin film transistors. *Applied Physics Letters*, **2014**, 104, 013507	3.4	33
117	Improved organic p-i-n type solar cells with n-doped fluorinated hexaazatrinaphthylene derivatives HATNA-F6 and HATNA-F12 as transparent electron transport material. *Journal of Applied Physics*, **2014**, 115, 054515	2.5	19
116	Built-in voltage of organic bulk heterojuction p-i-n solar cells measured by electroabsorption spectroscopy. *AIP Advances*, **2014**, 4, 047134	1.5	9
115	Coevaporated calcium-silver metal alloys as contact for highly transparent organic solar cells. *Energy Science and Engineering*, **2014**, 2, 77-85	3.4	4
114	Self-passivation of molecular n-type doping during air exposure using a highly efficient air-instable dopant. *Physica Status Solidi (A) Applications and Materials Science*, **2013**, 210, 2188-2198	1.6	15
113	Interlaboratory outdoor stability studies of flexible roll-to-roll coated organic photovoltaic modules: Stability over 10,000h. *Solar Energy Materials and Solar Cells*, **2013**, 116, 187-196	6.4	101
112	Electric potential mapping by thickness variation: A new method for model-free mobility determination in organic semiconductor thin films. *Organic Electronics*, **2013**, 14, 3460-3471	3.5	20
111	Doping of organic semiconductors. *Physica Status Solidi (A) Applications and Materials Science*, **2013**, 210, 9-43	1.6	425
110	A top-down analysis: Determining photovoltaics R&D investments from patent analysis and R&D headcount. *Energy Policy*, **2013**, 62, 1570-1580	7.2	20
109	Investigating local (photo-)current and structure of ZnPc:C60 bulk-heterojunctions. *Organic Electronics*, **2013**, 14, 2777-2788	3.5	8
108	Investigation of Driving Forces for Charge Extraction in Organic Solar Cells: Transient Photocurrent Measurements on Solar Cells Showing S-Shaped Current Voltage Characteristics. *Advanced Energy Materials*, **2013**, 3, 873-880	21.8	89
107	Trap states in ZnPc:C60 small-molecule organic solar cells. *Physical Review B*, **2013**, 87,	3.3	38
106	Doping of Organic Semiconductors **2013**, 425-496		1
105	Dominating recombination mechanisms in organic solar cells based on ZnPc and C60. *Applied Physics Letters*, **2013**, 102, 163901	3.4	50

104	Diindenoperylene derivatives: A model to investigate the path from molecular structure via morphology to solar cell performance. *Organic Electronics*, **2013**, 14, 1704-1714	3.5	12
103	Two similar near-infrared (IR) absorbing benzannulated aza-BODIPY dyes as near-IR sensitizers for ternary solar cells. *ACS Applied Materials & Interfaces*, **2013**, 5, 5609-16	9.5	67
102	Molecular ordering and charge transport in a dicyanovinyl-substituted quaterthiophene thin film. *RSC Advances*, **2013**, 3, 12117	3.7	19
101	Photoconductivity as loss mechanism in organic solar cells. *Physica Status Solidi - Rapid Research Letters*, **2013**, 7, 401-405	2.5	15
100	Open-Circuit Voltage and Effective Gap of Organic Solar Cells. *Advanced Functional Materials*, **2013**, 23, 5814-5821	15.6	68
99	Correlation of Absorption Profile and Fill Factor in Organic Solar Cells: The Role of Mobility Imbalance. *Advanced Energy Materials*, **2013**, 3, 631-638	21.8	44
98	Evaluation and Control of the Orientation of Small Molecules for Strongly Absorbing Organic Thin Films. *Journal of Physical Chemistry C*, **2013**, 117, 11600-11609	3.8	43
97	Temperature dependent behavior of flat and bulk heterojunction organic solar cells. *Materials Research Society Symposia Proceedings*, **2013**, 1493, 269-273		3
96	Correlation of open-circuit voltage and energy levels in zinc-phthalocyanine: C60 bulk heterojunction solar cells with varied mixing ratio. *Physical Review B*, **2013**, 88,	3.3	61
95	The effect of barrier performance on the lifetime of small-molecule organic solar cells. *Solar Energy Materials and Solar Cells*, **2012**, 97, 102-108	6.4	63
94	Organic solar cells based on a novel infrared absorbing aza-bodipy dye. *Solar Energy Materials and Solar Cells*, **2012**, 99, 176-181	6.4	48
93	Effect of film thickness, type of buffer layer, and substrate temperature on the morphology of dicyanovinyl-substituted sexithiophene films. *Thin Solid Films*, **2012**, 520, 2479-2487	2.2	14
92	Structural phase transition in pentacene caused by molecular doping and its effect on charge carrier mobility. *Organic Electronics*, **2012**, 13, 58-65	3.5	97
91	Probing the effect of substrate heating during deposition of DCV4T:C60 blend layers for organic solar cells. *Organic Electronics*, **2012**, 13, 623-631	3.5	20
90	Fluorinated Zinc Phthalocyanine as Donor for Efficient Vacuum-Deposited Organic Solar Cells. *Advanced Functional Materials*, **2012**, 22, 405-414	15.6	65
89	Interrelation between crystal packing and small-molecule organic solar cell performance. *Advanced Materials*, **2012**, 24, 675-80	24	120
88	Temperature Activation of the Photoinduced Charge Carrier Generation Efficiency in Quaterthiophene:C60 Mixed Films. *Journal of Physical Chemistry C*, **2012**, 116, 25097-25105	3.8	7
87	Morphology and molecular orientation of ethyl-substituted dicyanovinyl-sexithiophene films for photovoltaic applications. *Thin Solid Films*, **2012**, 525, 97-105	2.2	20

86	2-(2-Methoxyphenyl)-1,3-dimethyl-1H-benzoimidazol-3-ium iodide as a new air-stable n-type dopant for vacuum-processed organic semiconductor thin films. *Journal of the American Chemical Society*, **2012**, 134, 3999-4002	16.4	127
85	Phase separation analysis of bulk heterojunctions in small-molecule organic solar cells using zinc-phthalocyanine and C60. *Physical Review B*, **2012**, 85,	3.3	47
84	A comparison of two air-stable molecular n-dopants for C60. *Organic Electronics*, **2012**, 13, 3319-3325	3.5	25
83	Measurements of Efficiency Losses in Blend and Bilayer-Type Zinc Phthalocyanine/C60 High-Vacuum-Processed Organic Solar Cells. *Journal of Physical Chemistry C*, **2012**, 116, 16384-16390	3.8	30
82	Photoelectron spectroscopy investigations of recombination contacts for tandem organic solar cells. *Applied Physics Letters*, **2012**, 100, 113302	3.4	14
81	Comparative study of microscopic charge dynamics in crystalline acceptor-substituted oligothiophenes. *Journal of the American Chemical Society*, **2012**, 134, 6052-6	16.4	73
80	Correlation of π-conjugated oligomer structure with film morphology and organic solar cell performance. *Journal of the American Chemical Society*, **2012**, 134, 11064-7	16.4	243
79	Degradation of Small-Molecule-Based OPV **2012**, 109-142		5
78	Optimum mobility, contact properties, and open-circuit voltage of organic solar cells: A drift-diffusion simulation study. *Physical Review B*, **2012**, 85,	3.3	154
77	Impedance model of trap states for characterization of organic semiconductor devices. *Journal of Applied Physics*, **2012**, 111, 064503	2.5	46
76	Fermi level shift and doping efficiency in p-doped small molecule organic semiconductors: A photoelectron spectroscopy and theoretical study. *Physical Review B*, **2012**, 86,	3.3	135
75	In-situ conductivity and Seebeck measurements of highly efficient n-dopants in fullerene C60. *Applied Physics Letters*, **2012**, 100, 093304	3.4	105
74	Improved efficiency and lifetime in small molecule organic solar cells with optimized conductive polymer electrodes. *Applied Physics Letters*, **2011**, 99, 113305	3.4	36
73	Tetrapropyl-tetraphenyl-diindenoperylene derivative as a green absorber for high-voltage stable organic solar cells. *Physical Review B*, **2011**, 83,	3.3	13
72	Side chain variations on a series of dicyanovinyl-terthiophenes: a photoinduced absorption study. *Journal of Physical Chemistry A*, **2011**, 115, 8437-46	2.8	28
71	Imbalanced mobilities causing S-shaped IV curves in planar heterojunction organic solar cells. *Applied Physics Letters*, **2011**, 98, 063301	3.4	189
70	Improved photocurrent by using n-doped 2,3,8,9,14,15-hexachloro-5,6,11,12,17,18-hexaazatrinaphthylene as optical spacer layer in p-i-n type organic solar cells. *Journal of Applied Physics*, **2011**, 110, 124509	2.5	16
69	Effect of concentration gradients in ZnPc:C60 bulk heterojunction organic solar cells. *Solar Energy Materials and Solar Cells*, **2011**,	6.4	4

68	Increase of charge carrier lifetime in dicyanovinyl-quinquethiophene: fullerene blends upon deposition on heated substrates. *Organic Electronics*, **2011**, 12, 2258-2267	3.5	10
67	Dicyanovinyl sexithiophene as donor material in organic planar heterojunction solar cells: Morphological, optical, and electrical properties. *Organic Electronics*, **2011**, 12, 2243-2252	3.5	5
66	An inter-laboratory stability study of roll-to-roll coated flexible polymer solar modules. *Solar Energy Materials and Solar Cells*, **2011**, 95, 1398-1416	6.4	127
65	Consensus stability testing protocols for organic photovoltaic materials and devices. *Solar Energy Materials and Solar Cells*, **2011**, 95, 1253-1267	6.4	690
64	Synthesis of thiophene-substituted aza-BODIPYs and their optical and electrochemical properties. *Tetrahedron*, **2011**, 67, 7148-7155	2.4	69
63	Determining the C60 molecular arrangement in thin films by means of X-ray diffraction. *Journal of Applied Crystallography*, **2011**, 44, 983-990	3.8	26
62	Dicyanovinyl-Substituted Oligothiophenes: Structure-Property Relationships and Application in Vacuum-Processed Small Molecule Organic Solar Cells. *Advanced Functional Materials*, **2011**, 21, 897-910	15.6	234
61	Influence of Hole-Transport Layers and Donor Materials on Open-Circuit Voltage and Shape of I-V Curves of Organic Solar Cells. *Advanced Functional Materials*, **2011**, 21, 2140-2149	15.6	248
60	Efficient Organic Tandem Solar Cells based on Small Molecules. *Advanced Functional Materials*, **2011**, 21, 3019-3028	15.6	206
59	Synthesis and characterization of near-infrared absorbing benzannulated aza-BODIPY dyes. *Chemistry - A European Journal*, **2011**, 17, 2939-47	4.8	142
58	Homoleptic Co(II), Ni(II), Cu(II), Zn(II) and Hg(II) complexes of bis-(phenyl)-diisoindol-aza-methene. *Dalton Transactions*, **2011**, 40, 3476-83	4.3	35
57	Molecules for organic electronics studied one by one. *Physical Chemistry Chemical Physics*, **2011**, 13, 1442-166	3.4	5
56	Organic Semiconductors **2011**, 448-507		7
55	Investigation of C60F36 as low-volatility p-dopant in organic optoelectronic devices. *Journal of Applied Physics*, **2011**, 109, 103102	2.5	50
54	The influence of substrate heating on morphology and layer growth in C60:ZnPc bulk heterojunction solar cells. *Organic Electronics*, **2011**, 12, 435-441	3.5	55
53	Tetrabutyl-tetraphenyl-diindenoperylene derivatives as alternative green donor in bulk heterojunction organic solar cells. *Solar Energy Materials and Solar Cells*, **2011**, 95, 630-635	6.4	7
52	Total charge amount as indicator for the degradation of small molecule organic solar cells. *Solar Energy Materials and Solar Cells*, **2011**, 95, 1278-1283	6.4	13
51	The role of energy level matching in organic solar cells: Hexaazatriphenylene hexacarbonitrile as transparent electron transport material. *Solar Energy Materials and Solar Cells*, **2011**, 95, 927-932	6.4	37

50	Water and oxygen induced degradation of small molecule organic solar cells. *Solar Energy Materials and Solar Cells*, **2011**, 95, 1268-1277	6.4	118
49	Zinc phthalocyanine Influence of substrate temperature, film thickness, and kind of substrate on the morphology. *Thin Solid Films*, **2011**, 519, 3939-3945	2.2	72
48	Near-infrared absorbing semitransparent organic solar cells. *Applied Physics Letters*, **2011**, 99, 193307	3.4	45
47	Quantitative estimation of electronic quality of zinc phthalocyanine thin films. *Physical Review B*, **2011**, 84,	3.3	8
46	Highly efficient semitransparent tandem organic solar cells with complementary absorber materials. *Applied Physics Letters*, **2011**, 99, 043301	3.4	53
45	Improved photon harvesting by employing C 70 in bulk heterojunction solar cells **2010**,		2
44	Efficient and long-term stable organic vacuum deposited tandem solar cells **2010**,		6
43	Increase in internal quantum efficiency in small molecular oligothiophene: C60 mixed heterojunction solar cells by substrate heating. *Applied Physics Letters*, **2010**, 97, 073503	3.4	55
42	Highly doped layers as efficient electron Hole recombination contacts for tandem organic solar cells. *Journal of Applied Physics*, **2010**, 108, 033108	2.5	61
41	Controlled current matching in small molecule organic tandem solar cells using doped spacer layers. *Journal of Applied Physics*, **2010**, 107, 044503	2.5	83
40	Correlation between morphology and performance of low bandgap oligothiophene:C60 mixed heterojunctions in organic solar cells. *Journal of Applied Physics*, **2010**, 107, 014517	2.5	49
39	Selective absorption enhancement in organic solar cells using light incoupling layers. *Journal of Applied Physics*, **2010**, 107, 053117	2.5	32
38	Comparison of different conditions for accelerated ageing of small molecule organic solar cells **2010**,		8
37	Detection of trap charge in small molecular organic bulk heterojunction solar cells. *Physical Review B*, **2010**, 82,	3.3	23
36	Numerical drift-diffusion modeling of organic solar cells in comparison with experimental data series **2010**,		1
35	Charge Carrier Mobility and Ageing of ZnPc/C60 Solar Cells. *Molecular Crystals and Liquid Crystals*, **2010**, 522, 61/[361]-74/[374]	0.5	1
34	Optimization of organic tandem solar cells based on small molecules **2010**,		3
33	Organic solar cells with very high fill factor and voltage using tetrapropyl-tetraphenyl-diindenoperylene as green donor. *Physica Status Solidi - Rapid Research Letters*, **2010**, 4, 329-331	2.5	10

32	On the communication of scientific data: The Full-Metadata Format. *Computer Physics Communications*, **2010**, 181, 651-662	4.2	9
31	Sonnige Aussichten mit organischen Solarzellen. *Forschung*, **2010**, 35, 22-27	0	
30	Conductivity, charge carrier mobility and ageing of ZnPc/C60 solar cells. *Optical Materials*, **2010**, 32, 1676-1680	3.3	15
29	Optimizing the morphology of metal multilayer films for indium tin oxide (ITO)-free inverted organic solar cells. *Journal of Applied Physics*, **2009**, 105, 063108	2.5	61
28	Antenna effects and improved efficiency in multiple heterojunction photovoltaic cells based on pentacene, zinc phthalocyanine, and C60. *Journal of Applied Physics*, **2009**, 106, 064511	2.5	41
27	Efficient semitransparent small-molecule organic solar cells. *Applied Physics Letters*, **2009**, 95, 213306	3.4	32
26	Organic thin film photovoltaic cells based on planar and mixed heterojunctions between fullerene and a low bandgap oligothiophene. *Journal of Applied Physics*, **2009**, 106, 054509	2.5	40
25	Characterization of effective charge carrier mobility in ZnPc/C60 solar cells after ageing. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2009**, 6, 2864-2866		3
24	Surface engineering using Kumada catalyst-transfer polycondensation (KCTP): preparation and structuring of poly(3-hexylthiophene)-based graft copolymer brushes. *Journal of the American Chemical Society*, **2009**, 131, 153-61	16.4	100
23	Thick C60:ZnPc bulk heterojunction solar cells with improved performance by film deposition on heated substrates. *Applied Physics Letters*, **2009**, 94, 253303	3.4	90
22	Transparent conductive layers for organic solar cells: simulation and experiment **2009**,		6
21	Improved bulk heterojunction organic solar cells employing C70 fullerenes. *Applied Physics Letters*, **2009**, 94, 223307	3.4	92
20	Efficient p-i-n type organic solar cells incorporating 1,4,5,8-naphthalenetetracarboxylic dianhydride as transparent electron transport material. *Journal of Applied Physics*, **2008**, 104, 034506	2.5	46
19	Pentacene homojunctions: Electron and hole transport properties and related photovoltaic responses. *Physical Review B*, **2008**, 77,	3.3	66
18	Origin of open circuit voltage in planar and bulk heterojunction organic thin-film photovoltaics depending on doped transport layers. *Journal of Applied Physics*, **2008**, 104, 043107	2.5	106
17	Comment on Roles of donor and acceptor nanodomains in 6% efficient thermally annealed polymer photovoltaics[Appl. Phys. Lett. 90, 163511 (2007)]. *Applied Physics Letters*, **2008**, 92, 076101	3.4	9
16	Transparent electrode materials for solar cells **2008**,		18
15	Characterisation of different hole transport materials as used in organic p-i-n solar cells **2008**,		11

14	Recent progress in organic solar cells based on small molecules **2008**,		2
13	Dicyanovinyl-quinquethiophenes with varying alkyl chain lengths: Investigation of their performance in organic devices. *Journal of Applied Physics*, **2008**, 104, 074511	2.5	38
12	High throughput testing platform for organic Solar Cells. *Progress in Photovoltaics: Research and Applications*, **2008**, 16, 561-576	6.8	31
11	Light trapping in organic solar cells. *Physica Status Solidi (A) Applications and Materials Science*, **2008** , 205, 2862-2874	1.6	64
10	Small-molecule solar cells-status and perspectives. *Nanotechnology*, **2008**, 19, 424001	3.4	254
9	Efficiency limiting factors of organic bulk heterojunction solar cells identified by electrical impedance spectroscopy. *Solar Energy Materials and Solar Cells*, **2007**, 91, 390-393	6.4	206
8	Analyzing poly(3-hexyl-thiophene):1-(3-methoxy-carbonyl)propyl-1-phenyl-(6,6)C61 bulk-heterojunction solar cells by UV-visible spectroscopy and optical simulations. *Journal of Applied Physics*, **2007**, 102, 054502	2.5	21
7	Datamining and analysis of the key parameters in organic solar cells **2006**,		5
6	Optical near field phenomena in planar and structured organic solar cells **2006**,		6
5	Electroabsorption studies of organic bulk-heterojunction solar cells. *Thin Solid Films*, **2005**, 493, 170-174	2.2	20
4	Organic solar cells using inverted layer sequence. *Thin Solid Films*, **2005**, 491, 298-300	2.2	166
3	Functional substrates for flexible organic photovoltaic cells **2005**, 5938, 593802		
2	Geminate and Nongeminate Pathways for Triplet Exciton Formation in Organic Solar Cells. *Advanced Energy Materials*,2103944	21.8	3
1	Properties and Applications of Copper(I) Thiocyanate Hole-Transport Interlayers Processed from Different Solvents. *Advanced Electronic Materials*,2101253	6.4	0