

Moritz K Riede

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175
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95
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189
ext. papers

10,463
ext. citations

7.8
avg, IF

6.11
L-index

#	Paper	IF	Citations
175	Consensus stability testing protocols for organic photovoltaic materials and devices. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1253-1267	6.4	690
174	Efficient charge generation by relaxed charge-transfer states at organic interfaces. <i>Nature Materials</i> , 2014 , 13, 63-8	27	584
173	Doping of organic semiconductors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 9-43	1.6	425
172	Intrinsic non-radiative voltage losses in fullerene-based organic solar cells. <i>Nature Energy</i> , 2017 , 2,	62.3	362
171	Optical properties and limiting photocurrent of thin-film perovskite solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 602-609	35.4	335
170	Small-molecule solar cells-status and perspectives. <i>Nanotechnology</i> , 2008 , 19, 424001	3.4	254
169	Influence of Hole-Transport Layers and Donor Materials on Open-Circuit Voltage and Shape of IV Curves of Organic Solar Cells. <i>Advanced Functional Materials</i> , 2011 , 21, 2140-2149	15.6	248
168	Correlation of π -conjugated oligomer structure with film morphology and organic solar cell performance. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11064-7	16.4	243
167	Dicyanovinyl-Substituted Oligothiophenes: Structure-Property Relationships and Application in Vacuum-Processed Small Molecule Organic Solar Cells. <i>Advanced Functional Materials</i> , 2011 , 21, 897-910	15.6	234
166	Structured Organic-Inorganic Perovskite toward a Distributed Feedback Laser. <i>Advanced Materials</i> , 2016 , 28, 923-9	24	209
165	Efficient Organic Tandem Solar Cells based on Small Molecules. <i>Advanced Functional Materials</i> , 2011 , 21, 3019-3028	15.6	206
164	Efficiency limiting factors of organic bulk heterojunction solar cells identified by electrical impedance spectroscopy. <i>Solar Energy Materials and Solar Cells</i> , 2007 , 91, 390-393	6.4	206
163	Imbalanced mobilities causing S-shaped IV curves in planar heterojunction organic solar cells. <i>Applied Physics Letters</i> , 2011 , 98, 063301	3.4	189
162	Organic solar cells using inverted layer sequence. <i>Thin Solid Films</i> , 2005 , 491, 298-300	2.2	166
161	Optimum mobility, contact properties, and open-circuit voltage of organic solar cells: A drift-diffusion simulation study. <i>Physical Review B</i> , 2012 , 85,	3.3	154
160	Increased open-circuit voltage of organic solar cells by reduced donor-acceptor interface area. <i>Advanced Materials</i> , 2014 , 26, 3839-43	24	152
159	Synthesis and characterization of near-infrared absorbing benzannulated aza-BODIPY dyes. <i>Chemistry - A European Journal</i> , 2011 , 17, 2939-47	4.8	142

158	Fermi level shift and doping efficiency in p-doped small molecule organic semiconductors: A photoelectron spectroscopy and theoretical study. <i>Physical Review B</i> , 2012 , 86,	3.3	135
157	2-(2-Methoxyphenyl)-1,3-dimethyl-1H-benzimidazol-3-ium iodide as a new air-stable n-type dopant for vacuum-processed organic semiconductor thin films. <i>Journal of the American Chemical Society</i> , 2012 , 134, 3999-4002	16.4	127
156	An inter-laboratory stability study of roll-to-roll coated flexible polymer solar modules. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1398-1416	6.4	127
155	Interrelation between crystal packing and small-molecule organic solar cell performance. <i>Advanced Materials</i> , 2012 , 24, 675-80	24	120
154	Water and oxygen induced degradation of small molecule organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1268-1277	6.4	118
153	Origin of open circuit voltage in planar and bulk heterojunction organic thin-film photovoltaics depending on doped transport layers. <i>Journal of Applied Physics</i> , 2008 , 104, 043107	2.5	106
152	In-situ conductivity and Seebeck measurements of highly efficient n-dopants in fullerene C60. <i>Applied Physics Letters</i> , 2012 , 100, 093304	3.4	105
151	Interlaboratory outdoor stability studies of flexible roll-to-roll coated organic photovoltaic modules: Stability over 10,000h. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 116, 187-196	6.4	101
150	Surface engineering using Kumada catalyst-transfer polycondensation (KCTP): preparation and structuring of poly(3-hexylthiophene)-based graft copolymer brushes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 153-61	16.4	100
149	Enhanced Amplified Spontaneous Emission in Perovskites Using a Flexible Cholesteric Liquid Crystal Reflector. <i>Nano Letters</i> , 2015 , 15, 4935-41	11.5	97
148	Structural phase transition in pentacene caused by molecular doping and its effect on charge carrier mobility. <i>Organic Electronics</i> , 2012 , 13, 58-65	3.5	97
147	Improved bulk heterojunction organic solar cells employing C70 fullerenes. <i>Applied Physics Letters</i> , 2009 , 94, 223307	3.4	92
146	Thick C60:ZnPc bulk heterojunction solar cells with improved performance by film deposition on heated substrates. <i>Applied Physics Letters</i> , 2009 , 94, 253303	3.4	90
145	Organic Solar Cells The Path to Commercial Success. <i>Advanced Energy Materials</i> , 2021 , 11, 2002653	21.8	90
144	Investigation of Driving Forces for Charge Extraction in Organic Solar Cells: Transient Photocurrent Measurements on Solar Cells Showing S-Shaped Current-Voltage Characteristics. <i>Advanced Energy Materials</i> , 2013 , 3, 873-880	21.8	89
143	Controlled current matching in small molecule organic tandem solar cells using doped spacer layers. <i>Journal of Applied Physics</i> , 2010 , 107, 044503	2.5	83
142	Comparative study of microscopic charge dynamics in crystalline acceptor-substituted oligothiophenes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6052-6	16.4	73
141	Zinc phthalocyanine Influence of substrate temperature, film thickness, and kind of substrate on the morphology. <i>Thin Solid Films</i> , 2011 , 519, 3939-3945	2.2	72

140	Measurement of Small Molecular Dopant F4TCNQ and C60F36 Diffusion in Organic Bilayer Architectures. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28420-8	9.5	71
139	Synthesis of thiophene-substituted aza-BODIPYs and their optical and electrochemical properties. <i>Tetrahedron</i> , 2011 , 67, 7148-7155	2.4	69
138	Open-Circuit Voltage and Effective Gap of Organic Solar Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 5814-5821	15.6	68
137	Two similar near-infrared (IR) absorbing benzannulated aza-BODIPY dyes as near-IR sensitizers for ternary solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5609-16	9.5	67
136	Pentacene homojunctions: Electron and hole transport properties and related photovoltaic responses. <i>Physical Review B</i> , 2008 , 77,	3.3	66
135	Fluorinated Zinc Phthalocyanine as Donor for Efficient Vacuum-Deposited Organic Solar Cells. <i>Advanced Functional Materials</i> , 2012 , 22, 405-414	15.6	65
134	Light trapping in organic solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 2862-2874	1.6	64
133	The effect of barrier performance on the lifetime of small-molecule organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 102-108	6.4	63
132	Correlation of open-circuit voltage and energy levels in zinc-phthalocyanine: C60 bulk heterojunction solar cells with varied mixing ratio. <i>Physical Review B</i> , 2013 , 88,	3.3	61
131	Highly doped layers as efficient electron/hole recombination contacts for tandem organic solar cells. <i>Journal of Applied Physics</i> , 2010 , 108, 033108	2.5	61
130	Optimizing the morphology of metal multilayer films for indium tin oxide (ITO)-free inverted organic solar cells. <i>Journal of Applied Physics</i> , 2009 , 105, 063108	2.5	61
129	Cross-Linkable Fullerene Derivatives for Solution-Processed n-i-p Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2016 , 1, 648-653	20.1	60
128	Increase in internal quantum efficiency in small molecular oligothiophene: C60 mixed heterojunction solar cells by substrate heating. <i>Applied Physics Letters</i> , 2010 , 97, 073503	3.4	55
127	The influence of substrate heating on morphology and layer growth in C60:ZnPc bulk heterojunction solar cells. <i>Organic Electronics</i> , 2011 , 12, 435-441	3.5	55
126	Highly efficient semitransparent tandem organic solar cells with complementary absorber materials. <i>Applied Physics Letters</i> , 2011 , 99, 043301	3.4	53
125	Dominating recombination mechanisms in organic solar cells based on ZnPc and C60. <i>Applied Physics Letters</i> , 2013 , 102, 163901	3.4	50
124	Investigation of C60F36 as low-volatility p-dopant in organic optoelectronic devices. <i>Journal of Applied Physics</i> , 2011 , 109, 103102	2.5	50
123	Correlation between morphology and performance of low bandgap oligothiophene:C60 mixed heterojunctions in organic solar cells. <i>Journal of Applied Physics</i> , 2010 , 107, 014517	2.5	49

122	Organic solar cells based on a novel infrared absorbing aza-bodipy dye. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 99, 176-181	6.4	48
121	The role of charge recombination to triplet excitons in organic solar cells. <i>Nature</i> , 2021 , 597, 666-671	50.4	48
120	Phase separation analysis of bulk heterojunctions in small-molecule organic solar cells using zinc-phthalocyanine and C60. <i>Physical Review B</i> , 2012 , 85,	3.3	47
119	Impedance model of trap states for characterization of organic semiconductor devices. <i>Journal of Applied Physics</i> , 2012 , 111, 064503	2.5	46
118	Efficient p-i-n type organic solar cells incorporating 1,4,5,8-naphthalenetetracarboxylic dianhydride as transparent electron transport material. <i>Journal of Applied Physics</i> , 2008 , 104, 034506	2.5	46
117	Near-infrared absorbing semitransparent organic solar cells. <i>Applied Physics Letters</i> , 2011 , 99, 193307	3.4	45
116	Correlation of Absorption Profile and Fill Factor in Organic Solar Cells: The Role of Mobility Imbalance. <i>Advanced Energy Materials</i> , 2013 , 3, 631-638	21.8	44
115	Key Tradeoffs Limiting the Performance of Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2018 , 8, 1703551	21.8	44
114	Evaluation and Control of the Orientation of Small Molecules for Strongly Absorbing Organic Thin Films. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11600-11609	3.8	43
113	Characterization of tandem organic solar cells. <i>Nature Photonics</i> , 2015 , 9, 478-479	33.9	42
112	Antenna effects and improved efficiency in multiple heterojunction photovoltaic cells based on pentacene, zinc phthalocyanine, and C60. <i>Journal of Applied Physics</i> , 2009 , 106, 064511	2.5	41
111	Organic thin film photovoltaic cells based on planar and mixed heterojunctions between fullerene and a low bandgap oligothiophene. <i>Journal of Applied Physics</i> , 2009 , 106, 054509	2.5	40
110	Trap states in ZnPc:C60 small-molecule organic solar cells. <i>Physical Review B</i> , 2013 , 87,	3.3	38
109	Dicyanovinyl-quinquethiophenes with varying alkyl chain lengths: Investigation of their performance in organic devices. <i>Journal of Applied Physics</i> , 2008 , 104, 074511	2.5	38
108	The role of energy level matching in organic solar cells Hexaazatriphenylene hexacarbonitrile as transparent electron transport material. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 927-932	6.4	37
107	Improved efficiency and lifetime in small molecule organic solar cells with optimized conductive polymer electrodes. <i>Applied Physics Letters</i> , 2011 , 99, 113305	3.4	36
106	Homoleptic Co(II), Ni(II), Cu(II), Zn(II) and Hg(II) complexes of bis-(phenyl)-diisoindol-aza-methene. <i>Dalton Transactions</i> , 2011 , 40, 3476-83	4.3	35
105	Molecular doping for control of gate bias stress in organic thin film transistors. <i>Applied Physics Letters</i> , 2014 , 104, 013507	3.4	33

104	Highly efficient p-dopants in amorphous hosts. <i>Organic Electronics</i> , 2014 , 15, 365-371	3.5	32
103	Selective absorption enhancement in organic solar cells using light incoupling layers. <i>Journal of Applied Physics</i> , 2010 , 107, 053117	2.5	32
102	Efficient semitransparent small-molecule organic solar cells. <i>Applied Physics Letters</i> , 2009 , 95, 213306	3.4	32
101	High throughput testing platform for organic Solar Cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2008 , 16, 561-576	6.8	31
100	Measurements of Efficiency Losses in Blend and Bilayer-Type Zinc Phthalocyanine/C60 High-Vacuum-Processed Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16384-16390	3.8	30
99	Side chain variations on a series of dicyanovinyl-terthiophenes: a photoinduced absorption study. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 8437-46	2.8	28
98	Hole Transport in Low-Donor-Content Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5496-5501	6.4	28
97	Determining the C60 molecular arrangement in thin films by means of X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2011 , 44, 983-990	3.8	26
96	Exciton Diffusion Length and Charge Extraction Yield in Organic Bilayer Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1604424	24	25
95	A comparison of two air-stable molecular n-dopants for C60. <i>Organic Electronics</i> , 2012 , 13, 3319-3325	3.5	25
94	Controlling energy levels and Fermi level en route to fully tailored energetics in organic semiconductors. <i>Nature Communications</i> , 2019 , 10, 5538	17.4	25
93	Mixed interlayers at the interface between PEDOT:PSS and conjugated polymers provide charge transport control. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2664-2676	7.1	23
92	Detection of trap charge in small molecular organic bulk heterojunction solar cells. <i>Physical Review B</i> , 2010 , 82,	3.3	23
91	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. <i>Journal of Applied Physics</i> , 2007 , 102, 054502	2.5	21
90	Probing the effect of substrate heating during deposition of DCV4T:C60 blend layers for organic solar cells. <i>Organic Electronics</i> , 2012 , 13, 623-631	3.5	20
89	Electric potential mapping by thickness variation: A new method for model-free mobility determination in organic semiconductor thin films. <i>Organic Electronics</i> , 2013 , 14, 3460-3471	3.5	20
88	A top-down analysis: Determining photovoltaics R&D investments from patent analysis and R&D headcount. <i>Energy Policy</i> , 2013 , 62, 1570-1580	7.2	20
87	Morphology and molecular orientation of ethyl-substituted dicyanovinyl-sexithiophene films for photovoltaic applications. <i>Thin Solid Films</i> , 2012 , 525, 97-105	2.2	20

86	Electroabsorption studies of organic bulk-heterojunction solar cells. <i>Thin Solid Films</i> , 2005 , 493, 170-174	2.2	20
85	Femtosecond Dynamics of Photoexcited C Films. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1885-1890	2.4	19
84	Direct Electrical Evidence of Plasmonic Near-Field Enhancement in Small Molecule Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15128-15135	3.8	19
83	Electroabsorption studies of organic p-i-n solar cells: Increase of the built-in voltage by higher doping concentration in the hole transport layer. <i>Organic Electronics</i> , 2014 , 15, 563-568	3.5	19
82	Improved organic p-i-n type solar cells with n-doped fluorinated hexaazatrinaphthylene derivatives HATNA-F6 and HATNA-F12 as transparent electron transport material. <i>Journal of Applied Physics</i> , 2014 , 115, 054515	2.5	19
81	Molecular ordering and charge transport in a dicyanovinyl-substituted quaterthiophene thin film. <i>RSC Advances</i> , 2013 , 3, 12117	3.7	19
80	Transparent electrode materials for solar cells 2008 ,		18
79	Adduct-based p-doping of organic semiconductors. <i>Nature Materials</i> , 2021 , 20, 1248-1254	2.7	18
78	Solubilization of Carbon Nanotubes with Ethylene-Vinyl Acetate for Solution-Processed Conductive Films and Charge Extraction Layers in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1185-1191	9.5	18
77	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. <i>Journal of Applied Physics</i> , 2011 , 110, 124509	2.5	16
76	Self-passivation of molecular n-type doping during air exposure using a highly efficient air-instable dopant. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 2188-2198	1.6	15
75	Photoconductivity as loss mechanism in organic solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 401-405	2.5	15
74	Conductivity, charge carrier mobility and ageing of ZnPc/C60 solar cells. <i>Optical Materials</i> , 2010 , 32, 1676-1680	5.3	15
73	Effect of film thickness, type of buffer layer, and substrate temperature on the morphology of dicyanovinyl-substituted sexithiophene films. <i>Thin Solid Films</i> , 2012 , 520, 2479-2487	2.2	14
72	Photoelectron spectroscopy investigations of recombination contacts for tandem organic solar cells. <i>Applied Physics Letters</i> , 2012 , 100, 113302	3.4	14
71	Tuning the ambipolar behaviour of organic field effect transistors via band engineering. <i>AIP Advances</i> , 2019 , 9, 035202	1.5	13
70	Tetrapropyl-tetraphenyl-diindenoperylene derivative as a green absorber for high-voltage stable organic solar cells. <i>Physical Review B</i> , 2011 , 83,	3.3	13
69	Total charge amount as indicator for the degradation of small molecule organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1278-1283	6.4	13

68	Diindenoperylene derivatives: A model to investigate the path from molecular structure via morphology to solar cell performance. <i>Organic Electronics</i> , 2013 , 14, 1704-1714	3.5	12
67	Perspectives of Organic and Perovskite-Based Spintronics. <i>Advanced Optical Materials</i> , 2021 , 9, 21002158.1		12
66	A charge carrier transport model for donor-acceptor blend layers. <i>Journal of Applied Physics</i> , 2015 , 117, 045501	2.5	11
65	Determining doping efficiency and mobility from conductivity and Seebeck data of n-doped C60 layers. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 1877-1883	1.3	11
64	Characterisation of different hole transport materials as used in organic p-i-n solar cells 2008 ,		11
63	Molecular doped organic semiconductor crystals for optoelectronic device applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 14996-15008	7.1	11
62	Increase of charge carrier lifetime in dicyanovinylquinquethiophene: fullerene blends upon deposition on heated substrates. <i>Organic Electronics</i> , 2011 , 12, 2258-2267	3.5	10
61	Organic solar cells with very high fill factor and voltage using tetrapropyl-tetraphenyl-diindenoperylene as green donor. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 329-331	2.5	10
60	Molecular Quadrupole Moments Promote Ground-State Charge Generation in Doped Organic Semiconductors. <i>Advanced Functional Materials</i> , 2020 , 30, 2004600	15.6	10
59	Exploiting diffusion currents at Ohmic contacts for trap characterization in organic semiconductors. <i>Organic Electronics</i> , 2014 , 15, 2428-2432	3.5	9
58	Built-in voltage of organic bulk heterojunction p-i-n solar cells measured by electroabsorption spectroscopy. <i>AIP Advances</i> , 2014 , 4, 047134	1.5	9
57	On the communication of scientific data: The Full-Metadata Format. <i>Computer Physics Communications</i> , 2010 , 181, 651-662	4.2	9
56	Comment on Roles of donor and acceptor nanodomains in 6% efficient thermally annealed polymer photovoltaics[Appl. Phys. Lett. 90, 163511 (2007)]. <i>Applied Physics Letters</i> , 2008 , 92, 076101	3.4	9
55	MINERVA: A facility to study Microstructure and INterface Evolution in Realtime under VACuum. <i>Review of Scientific Instruments</i> , 2017 , 88, 103901	1.7	8
54	Ultrafast Charge Dynamics in Dilute-Donor versus Highly Intermixed TAPC:C Organic Solar Cell Blends. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5610-5617	6.4	8
53	Investigating local (photo-)current and structure of ZnPc:C60 bulk-heterojunctions. <i>Organic Electronics</i> , 2013 , 14, 2777-2788	3.5	8
52	Comparison of different conditions for accelerated ageing of small molecule organic solar cells 2010 ,		8
51	Quantitative estimation of electronic quality of zinc phthalocyanine thin films. <i>Physical Review B</i> , 2011 , 84,	3.3	8

50	Characterization of tandem organic solar cells comprising subcells of identical absorber material. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 1353-1356	6.8	7
49	Modification of the fluorinated tin oxide/electron-transporting material interface by a strong reductant and its effect on perovskite solar cell efficiency. <i>Molecular Systems Design and Engineering</i> , 2018 , 3, 741-747	4.6	7
48	Temperature Activation of the Photoinduced Charge Carrier Generation Efficiency in Quaterthiophene:C60 Mixed Films. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 25097-25105	3.8	7
47	Organic Semiconductors 2011 , 448-507		7
46	Tetrabutyl-tetraphenyl-diindenoperylene derivatives as alternative green donor in bulk heterojunction organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 630-635	6.4	7
45	Doped-carbazolocarbazoles as hole transporting materials in small molecule solar cells with different architectures. <i>Organic Electronics</i> , 2015 , 17, 28-32	3.5	6
44	Efficient and long-term stable organic vacuum deposited tandem solar cells 2010 ,		6
43	Transparent conductive layers for organic solar cells: simulation and experiment 2009 ,		6
42	Optical near field phenomena in planar and structured organic solar cells 2006 ,		6
41	Dicyanovinylene-Substituted Oligothiophenes for Organic Solar Cells. <i>Advances in Polymer Science</i> , 2017 , 51-75	1.3	5
40	Degradation of Small-Molecule-Based OPV 2012 , 109-142		5
39	Dicyanovinyl sexithiophene as donor material in organic planar heterojunction solar cells: Morphological, optical, and electrical properties. <i>Organic Electronics</i> , 2011 , 12, 2243-2252	3.5	5
38	Molecules for organic electronics studied one by one. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1442-1466	3.166	5
37	Datamining and analysis of the key parameters in organic solar cells 2006 ,		5
36	Electron spin as fingerprint for charge generation and transport in doped organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2944-2954	7.1	5
35	The role of spin in the degradation of organic photovoltaics. <i>Nature Communications</i> , 2021 , 12, 471	17.4	5
34	Experimental and theoretical study of phase separation in ZnPc:C60 blends. <i>Organic Electronics</i> , 2015 , 27, 183-191	3.5	4
33	In Situ Observations of the Growth Mode of Vacuum-Deposited Sexithiophene. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11863-11869	3.8	4

32	Naphthalenetetracarboxylic Diimide Derivatives: Molecular Structure, Thin Film Properties and Solar Cell Applications. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 1717-1732	3.1	4
31	Reply to 'Tandem organic solar cells revisited'. <i>Nature Photonics</i> , 2016 , 10, 355-355	33.9	4
30	Correlation between temperature activation of charge-carrier generation efficiency and hole mobility in small-molecule donor materials. <i>ChemPhysChem</i> , 2014 , 15, 1049-55	3.2	4
29	In-situ observation of stacking fault evolution in vacuum-deposited C60. <i>Applied Physics Letters</i> , 2017 , 111, 233305	3.4	4
28	Coevaporated calcium-silver metal alloys as contact for highly transparent organic solar cells. <i>Energy Science and Engineering</i> , 2014 , 2, 77-85	3.4	4
27	Effect of concentration gradients in ZnPc:C60 bulk heterojunction organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 ,	6.4	4
26	Temperature dependent behavior of flat and bulk heterojunction organic solar cells. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1493, 269-273		3
25	Optimization of organic tandem solar cells based on small molecules 2010 ,		3
24	Characterization of effective charge carrier mobility in ZnPc/C60 solar cells after ageing. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 2864-2866		3
23	Charge transfer state characterization and voltage losses of organic solar cells. <i>JPhys Materials</i> , 2022 , 5, 024002	4.2	3
22	Carbon Nanotubes for Quantum Dot Photovoltaics with Enhanced Light Management and Charge Transport. <i>ACS Photonics</i> , 2018 , 5, 4854-4863	6.3	3
21	Geminate and Nongeminate Pathways for Triplet Exciton Formation in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2103944	21.8	3
20	Efficiency enhancement of small molecule organic solar cells using hexapropyltruxene as an interface layer. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4909-4918	7.1	2
19	Electroabsorption studies of organic p-i-n solar cells: evaluating the built-in voltage. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1639, 1		2
18	Improved photon harvesting by employing C 70 in bulk heterojunction solar cells 2010 ,		2
17	Recent progress in organic solar cells based on small molecules 2008 ,		2
16	Filamentary High-Resolution Electrical Probes for Nanoengineering. <i>Nano Letters</i> , 2020 , 20, 1067-1073	11.5	2
15	Studying the Effect of High Substrate Temperature on the Microstructure of Vacuum Evaporated TAPC: C Organic Solar Thin Films. <i>Materials</i> , 2021 , 14,	3.5	2

14	Chain Conformation Control of Fluorene-Benzothiadiazole Copolymer Light-Emitting Diode Efficiency and Lifetime. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2919-2931	9.5	2
13	Organic Semiconductors ? 2018 ,		1
12	Doping of Organic Semiconductors 2013 , 425-496		1
11	Numerical drift-diffusion modeling of organic solar cells in comparison with experimental data series 2010 ,		1
10	Charge Carrier Mobility and Ageing of ZnPc/C60 Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 522, 61/[361]-74/[374]	0.5	1
9	Organic Electronics and Beyond. <i>Advanced Optical Materials</i> , 2021 , 9, 2101108	8.1	1
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