Moritz K Riede

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4980874/publications.pdf

Version: 2024-02-01

182 papers	11,365 citations	29994 54 h-index	30010 103 g-index
189 all docs	189 docs citations	189 times ranked	11219 citing authors

#	Article	IF	Citations
1	Consensus stability testing protocols for organic photovoltaic materials and devices. Solar Energy Materials and Solar Cells, 2011, 95, 1253-1267.	3.0	812
2	Efficient charge generation by relaxed charge-transfer states at organic interfaces. Nature Materials, 2014, 13, 63-68.	13.3	667
3	Doping of organic semiconductors. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 9-43.	0.8	500
4	Intrinsic non-radiative voltage losses in fullerene-based organic solar cells. Nature Energy, 2017, 2, .	19.8	494
5	Optical properties and limiting photocurrent of thin-film perovskite solar cells. Energy and Environmental Science, 2015, 8, 602-609.	15.6	417
6	Organic Solar Cellsâ€"The Path to Commercial Success. Advanced Energy Materials, 2021, 11, 2002653.	10.2	287
7	Small-molecule solar cellsâ€"status and perspectives. Nanotechnology, 2008, 19, 424001.	1.3	269
8	Influence of Holeâ€Transport Layers and Donor Materials on Openâ€Circuit Voltage and Shape of Iâ€“V Curves of Organic Solar Cells. Advanced Functional Materials, 2011, 21, 2140-2149.	7.8	263
9	Correlation of Ï€-Conjugated Oligomer Structure with Film Morphology and Organic Solar Cell Performance. Journal of the American Chemical Society, 2012, 134, 11064-11067.	6.6	260
10	Structured Organicâ€“Inorganic Perovskite toward a Distributed Feedback Laser. Advanced Materials, 2016, 28, 923-929.	11.1	257
11	Dicyanovinylâ€“Substituted Oligothiophenes: Structureâ€Property Relationships and Application in Vacuumâ€Processed Small Molecule Organic Solar Cells. Advanced Functional Materials, 2011, 21, 897-910.	7.8	246
12	Efficiency limiting factors of organic bulk heterojunction solar cells identified by electrical impedance spectroscopy. Solar Energy Materials and Solar Cells, 2007, 91, 390-393.	3.0	229
13	The role of charge recombination to triplet excitons in organic solar cells. Nature, 2021, 597, 666-671.	13.7	225
14	Efficient Organic Tandem Solar Cells based on Small Molecules. Advanced Functional Materials, 2011, 21, 3019-3028.	7.8	216
15	Imbalanced mobilities causing S-shaped IV curves in planar heterojunction organic solar cells. Applied Physics Letters, 2011, 98, .	1.5	203
16	Increased Openâ€Circuit Voltage of Organic Solar Cells by Reduced Donorâ€Acceptor Interface Area. Advanced Materials, 2014, 26, 3839-3843.	11.1	181
17	Organic solar cells using inverted layer sequence. Thin Solid Films, 2005, 491, 298-300.	0.8	177
18	Optimum mobility, contact properties, and open-circuit voltage of organic solar cells: A drift-diffusion simulation study. Physical Review B, 2012, 85, .	1.1	174

#	Article	IF	Citations
19	Fermi level shift and doping efficiency in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-doped small molecule organic semiconductors: A photoelectron spectroscopy and theoretical study. Physical Review B, 2012, 86, .	1.1	152
20	Synthesis and Characterization of Nearâ€Infrared Absorbing Benzannulated Azaâ€BODIPY Dyes. Chemistry - A European Journal, 2011, 17, 2939-2947.	1.7	151
21	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.	6.6	145
22	An inter-laboratory stability study of roll-to-roll coated flexible polymer solar modules. Solar Energy Materials and Solar Cells, 2011, 95, 1398-1416.	3.0	132
23	Interrelation between Crystal Packing and Smallâ€Molecule Organic Solar Cell Performance. Advanced Materials, 2012, 24, 675-680.	11.1	129
24	Water and oxygen induced degradation of small molecule organic solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 1268-1277.	3.0	126
25	Enhanced Amplified Spontaneous Emission in Perovskites Using a Flexible Cholesteric Liquid Crystal Reflector. Nano Letters, 2015, 15, 4935-4941.	4.5	117
26	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.	1.1	116
27	In-situ conductivity and Seebeck measurements of highly efficient n-dopants in fullerene C60. Applied Physics Letters, 2012, 100, .	1.5	112
28	Interlaboratory outdoor stability studies of flexible roll-to-roll coated organic photovoltaic modules: Stability over 10,000 h. Solar Energy Materials and Solar Cells, 2013, 116, 187-196.	3.0	107
29	Structural phase transition in pentacene caused by molecular doping and its effect on charge carrier mobility. Organic Electronics, 2012, 13, 58-65.	1.4	105
30	Investigation of Driving Forces for Charge Extraction in Organic Solar Cells: Transient Photocurrent Measurements on Solar Cells Showing Sâ€Shaped Currentâ€“Voltage Characteristics. Advanced Energy Materials, 2013, 3, 873-880.	10.2	103
31	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, 153-161.	6.6	102
32	Thick C60:ZnPc bulk heterojunction solar cells with improved performance by film deposition on heated substrates. Applied Physics Letters, 2009, 94, .	1.5	100
33	Improved bulk heterojunction organic solar cells employing C70 fullerenes. Applied Physics Letters, 2009, 94, 223307.	1.5	98
34	Controlled current matching in small molecule organic tandem solar cells using doped spacer layers. Journal of Applied Physics, 2010, 107, .	1.1	92
35	Zinc phthalocyanine â€” Influence of substrate temperature, film thickness, and kind of substrate on the morphology. Thin Solid Films, 2011, 519, 3939-3945.	0.8	84
36	Synthesis of thiophene-substituted aza-BODIPYs and their optical and electrochemical properties. Tetrahedron, 2011, 67, 7148-7155.	1.0	83

#	Article	IF	Citations
37	Measurement of Small Molecular Dopant F4TCNQ and C₆₀F₃₆ Diffusion in Organic Bilayer Architectures. ACS Applied Materials & Interfaces, 2015, 7, 28420-28428.	4.0	82
38	Openâ€Circuit Voltage and Effective Gap of Organic Solar Cells. Advanced Functional Materials, 2013, 23, 5814-5821.	7.8	80
39	Comparative Study of Microscopic Charge Dynamics in Crystalline Acceptor-Substituted Oligothiophenes. Journal of the American Chemical Society, 2012, 134, 6052-6056.	6.6	78
40	Light trapping in organic solar cells. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2862-2874.	0.8	74
41	Optimizing the morphology of metal multilayer films for indium tin oxide (ITO)-free inverted organic solar cells. Journal of Applied Physics, 2009, 105, .	1.1	72
42	Pentacene homojunctions: Electron and hole transport properties and related photovoltaic responses. Physical Review B, 2008, 77, .	1.1	71
43	Correlation of open-circuit voltage and energy levels in zinc-phthalocyanine: C<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>60</mml:mn></mml:msub></mml:math>bulk heterojunction solar cells with varied mixing ratio. Physical Review B, 2013, 88, .	1.1	71
44	Key Tradeoffs Limiting the Performance of Organic Photovoltaics. Advanced Energy Materials, 2018, 8, 1703551.	10.2	71
45	Fluorinated Zinc Phthalocyanine as Donor for Efficient Vacuumâ€Deposited Organic Solar Cells. Advanced Functional Materials, 2012, 22, 405-414.	7.8	70
46	Two Similar Near-Infrared (IR) Absorbing Benzannulated Aza-BODIPY Dyes as Near-IR Sensitizers for Ternary Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 5609-5616.	4.0	70
47	Cross-Linkable Fullerene Derivatives for Solution-Processed nâ€“iâ€“p Perovskite Solar Cells. ACS Energy Letters, 2016, 1, 648-653.	8.8	67
48	Highly doped layers as efficient electronâ€“hole recombination contacts for tandem organic solar cells. Journal of Applied Physics, 2010, 108, 033108.	1.1	66
49	The effect of barrier performance on the lifetime of small-molecule organic solar cells. Solar Energy Materials and Solar Cells, 2012, 97, 102-108.	3.0	66
50	The influence of substrate heating on morphology and layer growth in C60:ZnPc bulk heterojunction solar cells. Organic Electronics, 2011, 12, 435-441.	1.4	61
51	Highly efficient semitransparent tandem organic solar cells with complementary absorber materials. Applied Physics Letters, 2011, 99, 043301.	1.5	60
52	Increase in internal quantum efficiency in small molecular oligothiophene: C60 mixed heterojunction solar cells by substrate heating. Applied Physics Letters, 2010, 97, 073503.	1.5	57
53	Correlation between morphology and performance of low bandgap oligothiophene:C60 mixed heterojunctions in organic solar cells. Journal of Applied Physics, 2010, 107, .	1.1	55
54	Investigation of C60F36 as low-volatility p-dopant in organic optoelectronic devices. Journal of Applied Physics, 2011, 109, .	1.1	55

#	Article	IF	Citations
55	Dominating recombination mechanisms in organic solar cells based on ZnPc and C60. Applied Physics Letters, 2013, 102, 163901.	1.5	55
56	Organic solar cells based on a novel infrared absorbing aza-bodipy dye. Solar Energy Materials and Solar Cells, 2012, 99, 176-181.	3.0	54
57	Phase separation analysis of bulk heterojunctions in small-molecule organic solar cells using zinc-phthalocyanine and C60. Physical Review B, 2012, 85, .	1.1	53
58	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.	1.1	52
59	Impedance model of trap states for characterization of organic semiconductor devices. Journal of Applied Physics, 2012, 111, .	1.1	52
60	Characterization of tandem organic solar cells. Nature Photonics, 2015, 9, 478-479.	15.6	52
61	Correlation of Absorption Profile and Fill Factor in Organic Solar Cells: The Role of Mobility Imbalance. Advanced Energy Materials, 2013, 3, 631-638.	10.2	50
62	Evaluation and Control of the Orientation of Small Molecules for Strongly Absorbing Organic Thin Films. Journal of Physical Chemistry C, 2013, 117, 11600-11609.	1.5	50
63	Near-infrared absorbing semitransparent organic solar cells. Applied Physics Letters, 2011, 99, .	1.5	48
64	Perspectives of Organic and Perovskiteâ€Based Spintronics. Advanced Optical Materials, 2021, 9, 2100215.	3.6	46
65	Trap states in ZnPc:C60 small-molecule organic solar cells. Physical Review B, 2013, 87, .	1.1	43
66	Antenna effects and improved efficiency in multiple heterojunction photovoltaic cells based on pentacene, zinc phthalocyanine, and C60. Journal of Applied Physics, 2009, 106, .	1.1	42
67	Dicyanovinyl-quinquethiophenes with varying alkyl chain lengths: Investigation of their performance in organic devices. Journal of Applied Physics, 2008, 104, 074511.	1.1	40
68	Organic thin film photovoltaic cells based on planar and mixed heterojunctions between fullerene and a low bandgap oligothiophene. Journal of Applied Physics, 2009, 106, .	1.1	40
69	The role of energy level matching in organic solar cellsâ€”Hexaazatriphenylene hexacarbonitrile as transparent electron transport material. Solar Energy Materials and Solar Cells, 2011, 95, 927-932.	3.0	40
70	Molecular doping for control of gate bias stress in organic thin film transistors. Applied Physics Letters, 2014, 104, 013507.	1.5	40
71	Adduct-based p-doping of organic semiconductors. Nature Materials, 2021, 20, 1248-1254.	13.3	40
72	Improved efficiency and lifetime in small molecule organic solar cells with optimized conductive polymer electrodes. Applied Physics Letters, 2011, 99, .	1.5	39

#	Article	IF	Citations
73	Controlling energy levels and Fermi level en route to fully tailored energetics in organic semiconductors. Nature Communications, 2019, 10, 5538.	5.8	38
74	Efficient semitransparent small-molecule organic solar cells. Applied Physics Letters, 2009, 95, .	1.5	37
75	Homoleptic Co(ii), Ni(ii), Cu(ii), Zn(ii) and Hg(ii) complexes of bis-(phenyl)-diisoindol-aza-methene. Dalton Transactions, 2011, 40, 3476.	1.6	37
76	Exciton Diffusion Length and Charge Extraction Yield in Organic Bilayer Solar Cells. Advanced Materials, 2017, 29, 1604424.	11.1	36
77	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.	1.5	35
78	Highly efficient p-dopants in amorphous hosts. Organic Electronics, 2014, 15, 365-371.	1.4	35
79	High throughput testing platform for organic Solar Cells. Progress in Photovoltaics: Research and Applications, 2008, 16, 561-576.	4.4	34
80	Selective absorption enhancement in organic solar cells using light incoupling layers. Journal of Applied Physics, 2010, 107, 053117.	1.1	33
81	Hole Transport in Low-Donor-Content Organic Solar Cells. Journal of Physical Chemistry Letters, 2018, 9, 5496-5501.	2.1	33
82	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.	4.0	31
83	Side Chain Variations on a Series of Dicyanovinyl-Terthiophenes: A Photoinduced Absorption Study. Journal of Physical Chemistry A, 2011, 115, 8437-8446.	1.1	29
84	Determining the C60 molecular arrangement in thin films by means of X-ray diffraction. Journal of Applied Crystallography, 2011, 44, 983-990.	1.9	28
85	A comparison of two air-stable molecular n-dopants for C60. Organic Electronics, 2012, 13, 3319-3325.	1.4	28
86	Mixed interlayers at the interface between PEDOT:PSS and conjugated polymers provide charge transport control. Journal of Materials Chemistry C, 2015, 3, 2664-2676.	2.7	26
87	Detection of trap charge in small molecular organic bulk heterojunction solar cells. Physical Review B, 2010, 82, .	1.1	25
88	A top-down analysis: Determining photovoltaics R&D investments from patent analysis and R&D headcount. Energy Policy, 2013, 62, 1570-1580.	4.2	25
89	Molecular doped organic semiconductor crystals for optoelectronic device applications. Journal of Materials Chemistry C, 2020, 8, 14996-15008.	2.7	25
90	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.	1.1	23

#	Article	IF	Citations
91	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.	1.1	23
92	Probing the effect of substrate heating during deposition of DCV4T:C60 blend layers for organic solar cells. Organic Electronics, 2012, 13, 623-631.	1.4	22
93	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.	1.4	22
94	Femtosecond Dynamics of Photoexcited C₆₀ Films. Journal of Physical Chemistry Letters, 2018, 9, 1885-1892.	2.1	22
95	Geminate and Nongeminate Pathways for Triplet Exciton Formation in Organic Solar Cells. Advanced Energy Materials, 2022, 12, .	10.2	22
96	Electroabsorption studies of organic bulk-heterojunction solar cells. Thin Solid Films, 2005, 493, 170-174.	0.8	21
97	Conductivity, charge carrier mobility and ageing of ZnPc/C60 solar cells. Optical Materials, 2010, 32, 1676-1680.	1.7	21
98	Direct Electrical Evidence of Plasmonic Near-Field Enhancement in Small Molecule Organic Solar Cells. Journal of Physical Chemistry C, 2014, 118, 15128-15135.	1.5	21
99	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.	1.4	21
100	Morphology and molecular orientation of ethyl-substituted dicyanovinyl-sexithiophene films for photovoltaic applications. Thin Solid Films, 2012, 525, 97-105.	0.8	20
101	Molecular ordering and charge transport in a dicyanovinyl-substituted quaterthiophene thin film. RSC Advances, 2013, 3, 12117.	1.7	20
102	Tuning the ambipolar behaviour of organic field effect transistors via band engineering. AIP Advances, 2019, 9, .	0.6	20
103	Charge transfer state characterization and voltage losses of organic solar cells. JPhys Materials, 2022, 5, 024002.	1.8	19
104	Transparent electrode materials for solar cells. Proceedings of SPIE, 2008, , .	0.8	18
105	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, .	1.1	18
106	Selfâ€passivation of molecular nâ€type doping during air exposure using a highly efficient airâ€instable dopant. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2188-2198.	0.8	16
107	Photoconductivity as loss mechanism in organic solar cells. Physica Status Solidi - Rapid Research Letters, 2013, 7, 401-405.	1.2	16
108	The role of spin in the degradation of organic photovoltaics. Nature Communications, 2021, 12, 471.	5.8	16

#	Article	IF	Citations
109	Total charge amount as indicator for the degradation of small molecule organic solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 1278-1283.	3.0	15
110	Molecular Quadrupole Moments Promote Groundâ€State Charge Generation in Doped Organic Semiconductors. Advanced Functional Materials, 2020, 30, 2004600.	7.8	15
111	Ultrafast Charge Dynamics in Dilute-Donor versus Highly Intermixed TAPC:C₆₀ Organic Solar Cell Blends. Journal of Physical Chemistry Letters, 2020, 11, 5610-5617.	2.1	15
112	Electron spin as fingerprint for charge generation and transport in doped organic semiconductors. Journal of Materials Chemistry C, 2021, 9, 2944-2954.	2.7	15
113	Tetrapropyl-tetraphenyl-diindenoperylene derivative as a green absorber for high-voltage stable organic solar cells. Physical Review B, 2011, 83, .	1.1	14
114	Photoelectron spectroscopy investigations of recombination contacts for tandem organic solar cells. Applied Physics Letters, 2012, 100, .	1.5	14
115	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.	0.8	14
116	On the communication of scientific data: The Full-Metadata Format. Computer Physics Communications, 2010, 181, 651-662.	3.0	13
117	Characterisation of different hole transport materials as used in organic p-i-n solar cells. Proceedings of SPIE, 2008, , .	0.8	12
118	Diindenoperylene derivatives: A model to investigate the path from molecular structure via morphology to solar cell performance. Organic Electronics, 2013, 14, 1704-1714.	1.4	12
119	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.	0.7	12
120	Built-in voltage of organic bulk heterojuction p-i-n solar cells measured by electroabsorption spectroscopy. AIP Advances, 2014, 4, .	0.6	11
121	Exploiting diffusion currents at Ohmic contacts for trap characterization in organic semiconductors. Organic Electronics, 2014, 15, 2428-2432.	1.4	11
122	A charge carrier transport model for donor-acceptor blend layers. Journal of Applied Physics, 2015, 117, .	1.1	11
123	MINERVA: A facility to study Microstructure and INterface Evolution in Realtime under VAcuum. Review of Scientific Instruments, 2017, 88, 103901.	0.6	11
124	Organic solar cells with very high fill factor and voltage using tetrapropylâ€tetraphenylâ€diindenoperylene as green donor. Physica Status Solidi - Rapid Research Letters, 2010, 4, 329-331.	1.2	10
125	Increase of charge carrier lifetime in dicyanovinylâ€“quinquethiophene: fullerene blends upon deposition on heated substrates. Organic Electronics, 2011, 12, 2258-2267.	1.4	10
126	Quantitative estimation of electronic quality of zinc phthalocyanine thin films. Physical Review B, 2011, 84, .	1.1	10

#	Article	IF	Citations
127	Investigating local (photo-)current and structure of ZnPc:C60 bulk-heterojunctions. Organic Electronics, 2013, 14, 2777-2788.	1.4	10
128	Comment on â€œRoles of donor and acceptor nanodomains in 6% efficient thermally annealed polymer photovoltaicsâ€•[Appl. Phys. Lett. 90, 163511 (2007)]. Applied Physics Letters, 2008, 92, 076101.	1.5	9
129	Organic Semiconductors. , 2011, , 448-507.		9
130	Temperature Activation of the Photoinduced Charge Carrier Generation Efficiency in Quaterthiophene:C₆₀ Mixed Films. Journal of Physical Chemistry C, 2012, 116, 25097-25105.	1.5	9
131	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.	1.7	9
132	In Situ Observations of the Growth Mode of Vacuum-Deposited Î±-Sexithiophene. Journal of Physical Chemistry C, 2020, 124, 11863-11869.	1.5	9
133	Properties and Applications of Copper(I) Thiocyanate Holeâ€Transport Interlayers Processed from Different Solvents. Advanced Electronic Materials, 2022, 8, .	2.6	9
134	Comparison of different conditions for accelerated ageing of small molecule organic solar cells. , 2010, , .		8
135	Characterization of tandem organic solar cells comprising subcells of identical absorber material. Progress in Photovoltaics: Research and Applications, 2015, 23, 1353-1356.	4.4	8
136	Transparent conductive layers for organic solar cells: simulation and experiment. Proceedings of SPIE, 2009, , .	0.8	7
137	Tetrabutyl-tetraphenyl-diindenoperylene derivatives as alternative green donor in bulk heterojunction organic solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 630-635.	3.0	7
138	Optical near field phenomena in planar and structured organic solar cells. , 2006, , .		6
139	Efficient and long-term stable organic vacuum deposited tandem solar cells. Proceedings of SPIE, 2010, , .	0.8	6
140	Molecules for organic electronics studied one by one. Physical Chemistry Chemical Physics, 2011, 13, 14421.	1.3	6
141	Dicyanovinyl sexithiophene as donor material in organic planar heterojunction solar cells: Morphological, optical, and electrical properties. Organic Electronics, 2011, 12, 2243-2252.	1.4	6
142	Doped-carbazolocarbazoles as hole transporting materials in small molecule solar cells with different architectures. Organic Electronics, 2015, 17, 28-32.	1.4	6
143	Dicyanovinylene-Substituted Oligothiophenes for Organic Solar Cells. Advances in Polymer Science, 2017, , 51-75.	0.4	6
144	Chain Conformation Control of Fluorene-Benzothiadiazole Copolymer Light-Emitting Diode Efficiency and Lifetime. ACS Applied Materials & Interfaces, 2021, 13, 2919-2931.	4.0	6

#	Article	IF	Citations
145	Datamining and analysis of the key parameters in organic solar cells. , 2006, , .		5
146	Effect of concentration gradients in ZnPc:C60 bulk heterojunction organic solar cells. Solar Energy Materials and Solar Cells, 2011, , .	3.0	5
147	Experimental and theoretical study of phase separation in ZnPc:C60 blends. Organic Electronics, 2015, 27, 183-191.	1.4	5
148	Efficiency enhancement of small molecule organic solar cells using hexapropyltruxene as an interface layer. Journal of Materials Chemistry C, 2020, 8, 4909-4918.	2.7	5
149	Assessing the Photovoltaic Quality of Vacuumâ€Thermal Evaporated Organic Semiconductor Blends. Advanced Materials, 2021, , 2107584.	11.1	5
150	A liquid-crystalline non-fullerene acceptor enabling high-performance organic solar cells. Journal of Materials Chemistry A, 2021, 9, 26917-26928.	5.2	5
151	Coevaporated calciumâ€silver metal alloys as contact for highly transparent organic solar cells. Energy Science and Engineering, 2014, 2, 77-85.	1.9	4
152	Correlation between Temperature Activation of Chargeâ€Carrier Generation Efficiency and Hole Mobility in Smallâ€Molecule Donor Materials. ChemPhysChem, 2014, 15, 1049-1055.	1.0	4
153	Reply to 'Tandem organic solar cells revisited'. Nature Photonics, 2016, 10, 355-355.	15.6	4
154	In-situ observation of stacking fault evolution in vacuum-deposited C60. Applied Physics Letters, 2017, 111, 233305.	1.5	4
155	Naphthalenetetracarboxylic Diimide Derivatives: Molecular Structure, Thin Film Properties and Solar Cell Applications. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1717-1732.	1.4	4
156	Carbon Nanotubes for Quantum Dot Photovoltaics with Enhanced Light Management and Charge Transport. ACS Photonics, 2018, 5, 4854-4863.	3.2	4
157	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.	0.8	3
158	Optimization of organic tandem solar cells based on small molecules. , 2010, , .		3
159	Temperature dependent behavior of flat and bulk heterojunction organic solar cells. Materials Research Society Symposia Proceedings, 2013, 1493, 269-273.	0.1	3
160	Electroabsorption studies of organic p-i-n solar cells: evaluating the built-in voltage. Materials Research Society Symposia Proceedings, 2014, 1639, 1.	0.1	3
161	Studying the Effect of High Substrate Temperature on the Microstructure of Vacuum Evaporated TAPC: C60 Organic Solar Thin Films. Materials, 2021, 14, 1733.	1.3	3
162	Recent progress in organic solar cells based on small molecules. Proceedings of SPIE, 2008, , .	0.8	2

#	Article	IF	Citations
163	Improved photon harvesting by employing C 70 in bulk heterojunction solar cells. , 2010, , .		2
164	Filamentary High-Resolution Electrical Probes for Nanoengineering. Nano Letters, 2020, 20, 1067-1073.	4.5	2
165	Functional substrates for flexible organic photovoltaic cells. , 2005, 5938, 593802.		1
166	X-ray investigation of the morphology of DCV6T-Bu4films for organic solar cells. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s97-s98.	0.3	1
167	Numerical drift-diffusion modeling of organic solar cells in comparison with experimental data series. , 2010, , .		1
168	Organic Semiconductors â˜†. , 2018, , .		1
169	Direct observation and evolution of electronic coupling between organic semiconductors. Physical Review Materials, 2021, 5, .	0.9	1
170	Organic Electronics and Beyond. Advanced Optical Materials, 2021, 9, 2101108.	3.6	1
171	Perspectives of Organic and Perovskiteâ€Based Spintronics (Advanced Optical Materials 14/2021). Advanced Optical Materials, 2021, 9, 2170053.	3.6	1
172	Interfacial rearrangements and strain evolution in the thin film growth of ZnPc on glass. Physical Review Materials, 2022, 6, .	0.9	1
173	The influence of doping on the performance of organic bulk heterojunction solar cells. , 2006, 6192, 324.		0
174	Sonnige Aussichten mit organischen Solarzellen. Forschung, 2010, 35, 22-27.	0.0	0
175	Light Incoupling & Optical Optimisation of Organic Solar Cells. , 2010, , .		0
176	Charge Carrier Mobility and Ageing of ZnPc/C60 Solar Cells. Molecular Crystals and Liquid Crystals, 2010, 522, 61/[361]-74/[374].	0.4	0
177	Managing BHJ microstructural evolution for long-term photoconversion efficiency (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock		0
178	EU COST Action MP1307 â€" Unravelling the degradation mechanisms of emerging solar cell technologies. , 2016, , .		0
179	Plenary session 1: Engineering leadership & cognitive computing. , 2016, , .		0
180	Azetidinium as cation in lead mixed halide perovskite nanocrystals of optoelectronic quality. AIP Advances, 2020, 10, 025001.	0.6	0

#	Article	IF	Citations
181	Thermally Evaporated Donor Molecules for Low-Voltage Loss Organic Solar Cells. , 0, , .		0
182	Organic thin-film layer investigation with pair-distribution function technique. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s73-s73.	0.3	0