# Moritz K Riede

List of Publications by Year
in descending order

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| 182 | 11,365 | 30070 | 30087 |
|---|---|---|---|
| papers | citations | 54 | 103 |
| | | h-index | g-index |

| 189 | 189 | 189 | 11219 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Charge transfer state characterization and voltage losses of organic solar cells. JPhys Materials, 2022, 5, 024002. | 4.2 | 19 |
| 2 | Geminate and Nongeminate Pathways for Triplet Exciton Formation in Organic Solar Cells. Advanced Energy Materials, 2022, 12, . | 19.5 | 22 |
| 3 | Properties and Applications of Copper(I) Thiocyanate Holeâ€Transport Interlayers Processed from Different Solvents. Advanced Electronic Materials, 2022, 8, . | 5.1 | 9 |
| 4 | Interfacial rearrangements and strain evolution in the thin film growth of ZnPc on glass. Physical Review Materials, 2022, 6, . | 2.4 | 1 |
| 5 | Organic Solar Cellsâ€"The Path to Commercial Success. Advanced Energy Materials, 2021, 11, 2002653. | 19.5 | 287 |
| 6 | Electron spin as fingerprint for charge generation and transport in doped organic semiconductors. Journal of Materials Chemistry C, 2021, 9, 2944-2954. | 5.5 | 15 |
| 7 | The role of spin in the degradation of organic photovoltaics. Nature Communications, 2021, 12, 471. | 12.8 | 16 |
| 8 | Chain Conformation Control of Fluorene-Benzothiadiazole Copolymer Light-Emitting Diode Efficiency and Lifetime. ACS Applied Materials & Interfaces, 2021, 13, 2919-2931. | 8.0 | 6 |
| 9 | Direct observation and evolution of electronic coupling between organic semiconductors. Physical Review Materials, 2021, 5, . | 2.4 | 1 |
| 10 | Perspectives of Organic and Perovskiteâ€Based Spintronics. Advanced Optical Materials, 2021, 9, 2100215. | 7.3 | 46 |
| 11 | Studying the Effect of High Substrate Temperature on the Microstructure of Vacuum Evaporated TAPC: C60 Organic Solar Thin Films. Materials, 2021, 14, 1733. | 2.9 | 3 |
| 12 | Adduct-based p-doping of organic semiconductors. Nature Materials, 2021, 20, 1248-1254. | 27.5 | 40 |
| 13 | Organic Electronics and Beyond. Advanced Optical Materials, 2021, 9, 2101108. | 7.3 | 1 |
| 14 | Perspectives of Organic and Perovskiteâ€Based Spintronics (Advanced Optical Materials 14/2021). Advanced Optical Materials, 2021, 9, 2170053. | 7.3 | 1 |
| 15 | The role of charge recombination to triplet excitons in organic solar cells. Nature, 2021, 597, 666-671. | 27.8 | 225 |
| 16 | Assessing the Photovoltaic Quality of Vacuumâ€Thermal Evaporated Organic Semiconductor Blends. Advanced Materials, 2021, , 2107584. | 21.0 | 5 |
| 17 | A liquid-crystalline non-fullerene acceptor enabling high-performance organic solar cells. Journal of Materials Chemistry A, 2021, 9, 26917-26928. | 10.3 | 5 |
| 18 | Filamentary High-Resolution Electrical Probes for Nanoengineering. Nano Letters, 2020, 20, 1067-1073. | 9.1 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Molecular doped organic semiconductor crystals for optoelectronic device applications. Journal of Materials Chemistry C, 2020, 8, 14996-15008. | 5.5 | 25 |
| 20 | Molecular Quadrupole Moments Promote Groundâ€State Charge Generation in Doped Organic Semiconductors. Advanced Functional Materials, 2020, 30, 2004600. | 14.9 | 15 |
| 21 | Ultrafast Charge Dynamics in Dilute-Donor versus Highly Intermixed TAPC:C<sub>60</sub> Organic Solar Cell Blends. Journal of Physical Chemistry Letters, 2020, 11, 5610-5617. | 4.6 | 15 |
| 22 | In Situ Observations of the Growth Mode of Vacuum-Deposited Î±-Sexithiophene. Journal of Physical Chemistry C, 2020, 124, 11863-11869. | 3.1 | 9 |
| 23 | Efficiency enhancement of small molecule organic solar cells using hexapropyltruxene as an interface layer. Journal of Materials Chemistry C, 2020, 8, 4909-4918. | 5.5 | 5 |
| 24 | Azetidinium as cation in lead mixed halide perovskite nanocrystals of optoelectronic quality. AIP Advances, 2020, 10, 025001. | 1.3 | 0 |
| 25 | Tuning the ambipolar behaviour of organic field effect transistors via band engineering. AIP Advances, 2019, 9, . | 1.3 | 20 |
| 26 | Controlling energy levels and Fermi level en route to fully tailored energetics in organic semiconductors. Nature Communications, 2019, 10, 5538. | 12.8 | 38 |
| 27 | 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. | 8.0 | 31 |
| 28 | Naphthalenetetracarboxylic Diimide Derivatives: Molecular Structure, Thin Film Properties and Solar Cell Applications. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1717-1732. | 2.8 | 4 |
| 29 | Femtosecond Dynamics of Photoexcited C<sub>60</sub> Films. Journal of Physical Chemistry Letters, 2018, 9, 1885-1892. | 4.6 | 22 |
| 30 | Carbon Nanotubes for Quantum Dot Photovoltaics with Enhanced Light Management and Charge Transport. ACS Photonics, 2018, 5, 4854-4863. | 6.6 | 4 |
| 31 | Hole Transport in Low-Donor-Content Organic Solar Cells. Journal of Physical Chemistry Letters, 2018, 9, 5496-5501. | 4.6 | 33 |
| 32 | Key Tradeoffs Limiting the Performance of Organic Photovoltaics. Advanced Energy Materials, 2018, 8, 1703551. | 19.5 | 71 |
| 33 | Organic Semiconductors â˜†. , 2018, , . | | 1 |
| 34 | 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. | 3.4 | 9 |
| 35 | Exciton Diffusion Length and Charge Extraction Yield in Organic Bilayer Solar Cells. Advanced Materials, 2017, 29, 1604424. | 21.0 | 36 |
| 36 | Intrinsic non-radiative voltage losses in fullerene-based organic solar cells. Nature Energy, 2017, 2, . | 39.5 | 494 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Dicyanovinylene-Substituted Oligothiophenes for Organic Solar Cells. Advances in Polymer Science, 2017, , 51-75. | 0.8 | 6 |
| 38 | MINERVA: A facility to study Microstructure and INterface Evolution in Realtime under VAcuum. Review of Scientific Instruments, 2017, 88, 103901. | 1.3 | 11 |
| 39 | In-situ observation of stacking fault evolution in vacuum-deposited C60. Applied Physics Letters, 2017, 111, 233305. | 3.3 | 4 |
| 40 | Managing BHJ microstructural evolution for long-term photoconversion efficiency (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 | | 0 |
| 41 | Cross-Linkable Fullerene Derivatives for Solution-Processed nâ€“iâ€“p Perovskite Solar Cells. ACS Energy Letters, 2016, 1, 648-653. | 17.4 | 67 |
| 42 | EU COST Action MP1307 â€” Unravelling the degradation mechanisms of emerging solar cell technologies. , 2016, , . | | 0 |
| 43 | Plenary session 1: Engineering leadership & cognitive computing. , 2016, , . | | 0 |
| 44 | Structured Organicâ€“Inorganic Perovskite toward a Distributed Feedback Laser. Advanced Materials, 2016, 28, 923-929. | 21.0 | 257 |
| 45 | Reply to 'Tandem organic solar cells revisited'. Nature Photonics, 2016, 10, 355-355. | 31.4 | 4 |
| 46 | Measurement of Small Molecular Dopant F4TCNQ and C<sub>60</sub>F<sub>36</sub> Diffusion in Organic Bilayer Architectures. ACS Applied Materials & Interfaces, 2015, 7, 28420-28428. | 8.0 | 82 |
| 47 | Mixed interlayers at the interface between PEDOT:PSS and conjugated polymers provide charge transport control. Journal of Materials Chemistry C, 2015, 3, 2664-2676. | 5.5 | 26 |
| 48 | Characterization of tandem organic solar cells. Nature Photonics, 2015, 9, 478-479. | 31.4 | 52 |
| 49 | Enhanced Amplified Spontaneous Emission in Perovskites Using a Flexible Cholesteric Liquid Crystal Reflector. Nano Letters, 2015, 15, 4935-4941. | 9.1 | 117 |
| 50 | A charge carrier transport model for donor-acceptor blend layers. Journal of Applied Physics, 2015, 117, . | 2.5 | 11 |
| 51 | Determining doping efficiency and mobility from conductivity and Seebeck data of n-doped C<sub>60</sub> layers. Physica Status Solidi (B): Basic Research, 2015, 252, 1877-1883. | 1.5 | 12 |
| 52 | Experimental and theoretical study of phase separation in ZnPc:C60 blends. Organic Electronics, 2015, 27, 183-191. | 2.6 | 5 |
| 53 | Optical properties and limiting photocurrent of thin-film perovskite solar cells. Energy and Environmental Science, 2015, 8, 602-609. | 30.8 | 417 |
| 54 | Doped-carbazolocarbazoles as hole transporting materials in small molecule solar cells with different architectures. Organic Electronics, 2015, 17, 28-32. | 2.6 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Characterization of tandem organic solar cells comprising subcells of identical absorber material. Progress in Photovoltaics: Research and Applications, 2015, 23, 1353-1356. | 8.1 | 8 |
| 56 | Molecular doping for control of gate bias stress in organic thin film transistors. Applied Physics Letters, 2014, 104, 013507. | 3.3 | 40 |
| 57 | 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 | 23 |
| 58 | Built-in voltage of organic bulk heterojuction p-i-n solar cells measured by electroabsorption spectroscopy. AIP Advances, 2014, 4, . | 1.3 | 11 |
| 59 | Coevaporated calciumâ€silver metal alloys as contact for highly transparent organic solar cells. Energy Science and Engineering, 2014, 2, 77-85. | 4.0 | 4 |
| 60 | Increased Openâ€Circuit Voltage of Organic Solar Cells by Reduced Donorâ€Acceptor Interface Area. Advanced Materials, 2014, 26, 3839-3843. | 21.0 | 181 |
| 61 | Highly efficient p-dopants in amorphous hosts. Organic Electronics, 2014, 15, 365-371. | 2.6 | 35 |
| 62 | Efficient charge generation by relaxed charge-transfer states at organic interfaces. Nature Materials, 2014, 13, 63-68. | 27.5 | 667 |
| 63 | Direct Electrical Evidence of Plasmonic Near-Field Enhancement in Small Molecule Organic Solar Cells. Journal of Physical Chemistry C, 2014, 118, 15128-15135. | 3.1 | 21 |
| 64 | Exploiting diffusion currents at Ohmic contacts for trap characterization in organic semiconductors. Organic Electronics, 2014, 15, 2428-2432. | 2.6 | 11 |
| 65 | 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. | 2.6 | 21 |
| 66 | Correlation between Temperature Activation of Chargeâ€Carrier Generation Efficiency and Hole Mobility in Smallâ€Molecule Donor Materials. ChemPhysChem, 2014, 15, 1049-1055. | 2.1 | 4 |
| 67 | 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 |
| 68 | 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. | 1.8 | 16 |
| 69 | 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. | 6.2 | 107 |
| 70 | 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. | 2.6 | 22 |
| 71 | Doping of organic semiconductors. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 9-43. | 1.8 | 500 |
| 72 | A top-down analysis: Determining photovoltaics R&D investments from patent analysis and R&D headcount. Energy Policy, 2013, 62, 1570-1580. | 8.8 | 25 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Investigating local (photo-)current and structure of ZnPc:C60 bulk-heterojunctions. Organic Electronics, 2013, 14, 2777-2788. | 2.6 | 10 |
| 74 | 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. | 19.5 | 103 |
| 75 | Trap states in ZnPc:C60 small-molecule organic solar cells. Physical Review B, 2013, 87, . | 3.2 | 43 |
| 76 | Dominating recombination mechanisms in organic solar cells based on ZnPc and C60. Applied Physics Letters, 2013, 102, 163901. | 3.3 | 55 |
| 77 | Diindenoperylene derivatives: A model to investigate the path from molecular structure via morphology to solar cell performance. Organic Electronics, 2013, 14, 1704-1714. | 2.6 | 12 |
| 78 | 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. | 8.0 | 70 |
| 79 | Molecular ordering and charge transport in a dicyanovinyl-substituted quaterthiophene thin film. RSC Advances, 2013, 3, 12117. | 3.6 | 20 |
| 80 | Photoconductivity as loss mechanism in organic solar cells. Physica Status Solidi - Rapid Research Letters, 2013, 7, 401-405. | 2.4 | 16 |
| 81 | Openâ€Circuit Voltage and Effective Gap of Organic Solar Cells. Advanced Functional Materials, 2013, 23, 5814-5821. | 14.9 | 80 |
| 82 | Correlation of Absorption Profile and Fill Factor in Organic Solar Cells: The Role of Mobility Imbalance. Advanced Energy Materials, 2013, 3, 631-638. | 19.5 | 50 |
| 83 | Evaluation and Control of the Orientation of Small Molecules for Strongly Absorbing Organic Thin Films. Journal of Physical Chemistry C, 2013, 117, 11600-11609. | 3.1 | 50 |
| 84 | Temperature dependent behavior of flat and bulk heterojunction organic solar cells. Materials Research Society Symposia Proceedings, 2013, 1493, 269-273. | 0.1 | 3 |
| 85 | 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, . | 3.2 | 71 |
| 86 | 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, . | 3.2 | 152 |
| 87 | In-situ conductivity and Seebeck measurements of highly efficient n-dopants in fullerene C60. Applied Physics Letters, 2012, 100, . | 3.3 | 112 |
| 88 | Temperature Activation of the Photoinduced Charge Carrier Generation Efficiency in Quaterthiophene:C<sub>60</sub> Mixed Films. Journal of Physical Chemistry C, 2012, 116, 25097-25105. | 3.1 | 9 |
| 89 | Morphology and molecular orientation of ethyl-substituted dicyanovinyl-sexithiophene films for photovoltaic applications. Thin Solid Films, 2012, 525, 97-105. | 1.8 | 20 |
| 90 | 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. | 13.7 | 145 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Phase separation analysis of bulk heterojunctions in small-molecule organic solar cells using zinc-phthalocyanine and C60. Physical Review B, 2012, 85, . | 3.2 | 53 |
| 92 | A comparison of two air-stable molecular n-dopants for C60. Organic Electronics, 2012, 13, 3319-3325. | 2.6 | 28 |
| 93 | Measurements of Efficiency Losses in Blend and Bilayer-Type Zinc Phthalocyanine/C<sub>60</sub> High-Vacuum-Processed Organic Solar Cells. Journal of Physical Chemistry C, 2012, 116, 16384-16390. | 3.1 | 35 |
| 94 | Photoelectron spectroscopy investigations of recombination contacts for tandem organic solar cells. Applied Physics Letters, 2012, 100, . | 3.3 | 14 |
| 95 | Comparative Study of Microscopic Charge Dynamics in Crystalline Acceptor-Substituted Oligothiophenes. Journal of the American Chemical Society, 2012, 134, 6052-6056. | 13.7 | 78 |
| 96 | Correlation of Ï€-Conjugated Oligomer Structure with Film Morphology and Organic Solar Cell Performance. Journal of the American Chemical Society, 2012, 134, 11064-11067. | 13.7 | 260 |
| 97 | Optimum mobility, contact properties, and open-circuit voltage of organic solar cells: A drift-diffusion simulation study. Physical Review B, 2012, 85, . | 3.2 | 174 |
| 98 | Impedance model of trap states for characterization of organic semiconductor devices. Journal of Applied Physics, 2012, 111, . | 2.5 | 52 |
| 99 | The effect of barrier performance on the lifetime of small-molecule organic solar cells. Solar Energy Materials and Solar Cells, 2012, 97, 102-108. | 6.2 | 66 |
| 100 | Organic solar cells based on a novel infrared absorbing aza-bodipy dye. Solar Energy Materials and Solar Cells, 2012, 99, 176-181. | 6.2 | 54 |
| 101 | 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. | 1.8 | 14 |
| 102 | Structural phase transition in pentacene caused by molecular doping and its effect on charge carrier mobility. Organic Electronics, 2012, 13, 58-65. | 2.6 | 105 |
| 103 | Probing the effect of substrate heating during deposition of DCV4T:C60 blend layers for organic solar cells. Organic Electronics, 2012, 13, 623-631. | 2.6 | 22 |
| 104 | Fluorinated Zinc Phthalocyanine as Donor for Efficient Vacuumâ€Deposited Organic Solar Cells. Advanced Functional Materials, 2012, 22, 405-414. | 14.9 | 70 |
| 105 | Interrelation between Crystal Packing and Smallâ€Molecule Organic Solar Cell Performance. Advanced Materials, 2012, 24, 675-680. | 21.0 | 129 |
| 106 | Homoleptic Co(ii), Ni(ii), Cu(ii), Zn(ii) and Hg(ii) complexes of bis-(phenyl)-diisoindol-aza-methene. Dalton Transactions, 2011, 40, 3476. | 3.3 | 37 |
| 107 | Molecules for organic electronics studied one by one. Physical Chemistry Chemical Physics, 2011, 13, 14421. | 2.8 | 6 |
| 108 | Organic Semiconductors. , 2011, , 448-507. | | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Investigation of C60F36 as low-volatility p-dopant in organic optoelectronic devices. Journal of Applied Physics, 2011, 109, . | 2.5 | 55 |
| 110 | Improved efficiency and lifetime in small molecule organic solar cells with optimized conductive polymer electrodes. Applied Physics Letters, 2011, 99, . | 3.3 | 39 |
| 111 | Tetrapropyl-tetraphenyl-diindenoperylene derivative as a green absorber for high-voltage stable organic solar cells. Physical Review B, 2011, 83, . | 3.2 | 14 |
| 112 | Side Chain Variations on a Series of Dicyanovinyl-Terthiophenes: A Photoinduced Absorption Study. Journal of Physical Chemistry A, 2011, 115, 8437-8446. | 2.5 | 29 |
| 113 | Imbalanced mobilities causing S-shaped IV curves in planar heterojunction organic solar cells. Applied Physics Letters, 2011, 98, . | 3.3 | 203 |
| 114 | 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, . | 2.5 | 18 |
| 115 | Effect of concentration gradients in ZnPc:C60 bulk heterojunction organic solar cells. Solar Energy Materials and Solar Cells, 2011, , . | 6.2 | 5 |
| 116 | Increase of charge carrier lifetime in dicyanovinylâ€“quinquethiophene: fullerene blends upon deposition on heated substrates. Organic Electronics, 2011, 12, 2258-2267. | 2.6 | 10 |
| 117 | Dicyanovinyl sexithiophene as donor material in organic planar heterojunction solar cells: Morphological, optical, and electrical properties. Organic Electronics, 2011, 12, 2243-2252. | 2.6 | 6 |
| 118 | An inter-laboratory stability study of roll-to-roll coated flexible polymer solar modules. Solar Energy Materials and Solar Cells, 2011, 95, 1398-1416. | 6.2 | 132 |
| 119 | Consensus stability testing protocols for organic photovoltaic materials and devices. Solar Energy Materials and Solar Cells, 2011, 95, 1253-1267. | 6.2 | 812 |
| 120 | Synthesis of thiophene-substituted aza-BODIPYs and their optical and electrochemical properties. Tetrahedron, 2011, 67, 7148-7155. | 1.9 | 83 |
| 121 | Determining the C60 molecular arrangement in thin films by means of X-ray diffraction. Journal of Applied Crystallography, 2011, 44, 983-990. | 4.5 | 28 |
| 122 | Dicyanovinylâ€“Substituted Oligothiophenes: Structureâ€Property Relationships and Application in Vacuumâ€Processed Small Molecule Organic Solar Cells. Advanced Functional Materials, 2011, 21, 897-910. | 14.9 | 246 |
| 123 | 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. | 14.9 | 263 |
| 124 | Efficient Organic Tandem Solar Cells based on Small Molecules. Advanced Functional Materials, 2011, 21, 3019-3028. | 14.9 | 216 |
| 125 | Synthesis and Characterization of Nearâ€Infrared Absorbing Benzannulated Azaâ€BODIPY Dyes. Chemistry - A European Journal, 2011, 17, 2939-2947. | 3.3 | 151 |
| 126 | The influence of substrate heating on morphology and layer growth in C60:ZnPc bulk heterojunction solar cells. Organic Electronics, 2011, 12, 435-441. | 2.6 | 61 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Tetrabutyl-tetraphenyl-diindenoperylene derivatives as alternative green donor in bulk heterojunction organic solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 630-635. | 6.2 | 7 |
| 128 | Total charge amount as indicator for the degradation of small molecule organic solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 1278-1283. | 6.2 | 15 |
| 129 | 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. | 6.2 | 40 |
| 130 | Water and oxygen induced degradation of small molecule organic solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 1268-1277. | 6.2 | 126 |
| 131 | Zinc phthalocyanine â€" Influence of substrate temperature, film thickness, and kind of substrate on the morphology. Thin Solid Films, 2011, 519, 3939-3945. | 1.8 | 84 |
| 132 | Near-infrared absorbing semitransparent organic solar cells. Applied Physics Letters, 2011, 99, . | 3.3 | 48 |
| 133 | Quantitative estimation of electronic quality of zinc phthalocyanine thin films. Physical Review B, 2011, 84, . | 3.2 | 10 |
| 134 | Highly efficient semitransparent tandem organic solar cells with complementary absorber materials. Applied Physics Letters, 2011, 99, 043301. | 3.3 | 60 |
| 135 | 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 |
| 136 | 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. | 2.4 | 10 |
| 137 | On the communication of scientific data: The Full-Metadata Format. Computer Physics Communications, 2010, 181, 651-662. | 7.5 | 13 |
| 138 | Sonnige Aussichten mit organischen Solarzellen. Forschung, 2010, 35, 22-27. | 0.0 | 0 |
| 139 | Conductivity, charge carrier mobility and ageing of ZnPc/C60 solar cells. Optical Materials, 2010, 32, 1676-1680. | 3.6 | 21 |
| 140 | Improved photon harvesting by employing C 70 in bulk heterojunction solar cells. , 2010, , . | | 2 |
| 141 | Efficient and long-term stable organic vacuum deposited tandem solar cells. Proceedings of SPIE, 2010, , . | 0.8 | 6 |
| 142 | Increase in internal quantum efficiency in small molecular oligothiophene: C60 mixed heterojunction solar cells by substrate heating. Applied Physics Letters, 2010, 97, 073503. | 3.3 | 57 |
| 143 | Highly doped layers as efficient electronâ€"hole recombination contacts for tandem organic solar cells. Journal of Applied Physics, 2010, 108, 033108. | 2.5 | 66 |
| 144 | Controlled current matching in small molecule organic tandem solar cells using doped spacer layers. Journal of Applied Physics, 2010, 107, . | 2.5 | 92 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Correlation between morphology and performance of low bandgap oligothiophene:C60 mixed heterojunctions in organic solar cells. Journal of Applied Physics, 2010, 107, . | 2.5 | 55 |
| 146 | Selective absorption enhancement in organic solar cells using light incoupling layers. Journal of Applied Physics, 2010, 107, 053117. | 2.5 | 33 |
| 147 | Light Incoupling & Optical Optimisation of Organic Solar Cells. , 2010, , . | | 0 |
| 148 | Comparison of different conditions for accelerated ageing of small molecule organic solar cells. , 2010, , . | | 8 |
| 149 | Detection of trap charge in small molecular organic bulk heterojunction solar cells. Physical Review B, 2010, 82, . | 3.2 | 25 |
| 150 | Numerical drift-diffusion modeling of organic solar cells in comparison with experimental data series. , 2010, , . | | 1 |
| 151 | Charge Carrier Mobility and Ageing of ZnPc/C60 Solar Cells. Molecular Crystals and Liquid Crystals, 2010, 522, 61/[361]-74/[374]. | 0.9 | 0 |
| 152 | Optimization of organic tandem solar cells based on small molecules. , 2010, , . | | 3 |
| 153 | Organic thin-film layer investigation with pair-distribution function technique. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s73-s73. | 0.3 | 0 |
| 154 | Optimizing the morphology of metal multilayer films for indium tin oxide (ITO)-free inverted organic solar cells. Journal of Applied Physics, 2009, 105, . | 2.5 | 72 |
| 155 | Antenna effects and improved efficiency in multiple heterojunction photovoltaic cells based on pentacene, zinc phthalocyanine, and C60. Journal of Applied Physics, 2009, 106, . | 2.5 | 42 |
| 156 | Efficient semitransparent small-molecule organic solar cells. Applied Physics Letters, 2009, 95, . | 3.3 | 37 |
| 157 | Organic thin film photovoltaic cells based on planar and mixed heterojunctions between fullerene and a low bandgap oligothiophene. Journal of Applied Physics, 2009, 106, . | 2.5 | 40 |
| 158 | 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 |
| 159 | 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. | 13.7 | 102 |
| 160 | Thick C60:ZnPc bulk heterojunction solar cells with improved performance by film deposition on heated substrates. Applied Physics Letters, 2009, 94, . | 3.3 | 100 |
| 161 | Transparent conductive layers for organic solar cells: simulation and experiment. Proceedings of SPIE, 2009, , . | 0.8 | 7 |
| 162 | Improved bulk heterojunction organic solar cells employing C70 fullerenes. Applied Physics Letters, 2009, 94, 223307. | 3.3 | 98 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | High throughput testing platform for organic Solar Cells. Progress in Photovoltaics: Research and Applications, 2008, 16, 561-576. | 8.1 | 34 |
| 164 | Light trapping in organic solar cells. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2862-2874. | 1.8 | 74 |
| 165 | Small-molecule solar cellsâ€"status and perspectives. Nanotechnology, 2008, 19, 424001. | 2.6 | 269 |
| 166 | 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 | 52 |
| 167 | Pentacene homojunctions: Electron and hole transport properties and related photovoltaic responses. Physical Review B, 2008, 77, . | 3.2 | 71 |
| 168 | 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 | 116 |
| 169 | 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. | 3.3 | 9 |
| 170 | Transparent electrode materials for solar cells. Proceedings of SPIE, 2008, , . | 0.8 | 18 |
| 171 | Characterisation of different hole transport materials as used in organic p-i-n solar cells. Proceedings of SPIE, 2008, , . | 0.8 | 12 |
| 172 | Recent progress in organic solar cells based on small molecules. Proceedings of SPIE, 2008, , . | 0.8 | 2 |
| 173 | Dicyanovinyl-quinquethiophenes with varying alkyl chain lengths: Investigation of their performance in organic devices. Journal of Applied Physics, 2008, 104, 074511. | 2.5 | 40 |
| 174 | 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 | 23 |
| 175 | Efficiency limiting factors of organic bulk heterojunction solar cells identified by electrical impedance spectroscopy. Solar Energy Materials and Solar Cells, 2007, 91, 390-393. | 6.2 | 229 |
| 176 | The influence of doping on the performance of organic bulk heterojunction solar cells. , 2006, 6192, 324. | | 0 |
| 177 | Datamining and analysis of the key parameters in organic solar cells. , 2006, , . | | 5 |
| 178 | Optical near field phenomena in planar and structured organic solar cells. , 2006, , . | | 6 |
| 179 | Electroabsorption studies of organic bulk-heterojunction solar cells. Thin Solid Films, 2005, 493, 170-174. | 1.8 | 21 |
| 180 | Organic solar cells using inverted layer sequence. Thin Solid Films, 2005, 491, 298-300. | 1.8 | 177 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Functional substrates for flexible organic photovoltaic cells. , 2005, 5938, 593802. | | 1 |
| 182 | Thermally Evaporated Donor Molecules for Low-Voltage Loss Organic Solar Cells. , 0, , . | | 0 |