

25th Anniversary Article: Bulk Heterojunction Solar Cell of Operation

Advanced Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The dual role of endothelial differentiation-related factor-1 in the cytosol and nucleus: modulation by protein kinase A. Cellular and Molecular Life Sciences, 2004, 61, 1069-1074.	5.4	31
3	Towards High Performance Organic Photovoltaic Cells: A Review of Recent Development in Organic Photovoltaics. Polymers, 2014, 6, 2473-2509.	4.5	162
4	Synthesis of conjugated polymers containing gallium atoms and evaluation of conjugation through four-coordinate gallium atoms. Chemical Communications, 2014, 50, 15740-15743.	4.1	26
5	Unusually high fluorescence quantum yield of a homopolyfluorenylazomethine " towards a universal fluorophore. Physical Chemistry Chemical Physics, 2014, 16, 24382-24390.	2.8	19
6	Magnetic and Optoelectronic Properties of Gold Nanocluster"Thiophene Assembly. Angewandte Chemie - International Edition, 2014, 53, 7316-7319.	13.8	41
7	Post"Deposition Activation of Latent Hydrogen"Bonding: A New Paradigm for Enhancing the Performances of Bulk Heterojunction Solar Cells. Advanced Functional Materials, 2014, 24, 7410-7419.	14.9	27
8	TPD-Based Copolymers with Strong Interchain Aggregation and High Hole Mobility for Efficient Bulk Heterojunction Solar Cells. Macromolecules, 2014, 47, 8570-8577.	4.8	41
9	Tailoring Porphyrin-Based Electron Accepting Materials for Organic Photovoltaics. Journal of the American Chemical Society, 2014, 136, 17561-17569.	13.7	55
10	An Efficient AlE"Active Blue"Emitting Molecule by Incorporating Multifunctional Groups into Tetraphenylsilane. Chemistry - A European Journal, 2014, 20, 7589-7592.	3.3	41
11	Low band gap disk-shaped donors for solution-processed organic solar cells. RSC Advances, 2014, 4, 64589-64595.	3.6	6
12	Effect of Copper Oxide Oxidation State on the Polymer-Based Solar Cell Buffer Layers. ACS Applied Materials & Interfaces, 2014, 6, 22445-22450.	8.0	36
13	Bulk Charge Carrier Transport in Push"Pull Type Organic Semiconductor. ACS Applied Materials & Interfaces, 2014, 6, 20904-20912.	8.0	22
14	Selecting a Donor Polymer for Realizing Favorable Morphology in Efficient Non"fullerene Acceptor"based Solar Cells. Small, 2014, 10, 4658-4663.	10.0	76
15	Enhanced Photovoltaic Performance of Amorphous Copolymers Based on Dithienosilole and Dioxocycloalkene-annelated Thiophene. Chemistry of Materials, 2014, 26, 6971-6978.	6.7	32
16	Synthesis of Anthracene-Based Donor"Acceptor Copolymers with a Thermally Removable Group for Polymer Solar Cells. Macromolecules, 2014, 47, 8585-8593.	4.8	16
17	High performance organic integrated device with ultraviolet photodetective and electroluminescent properties consisting of a charge-transfer-featured naphthalimide derivative. Applied Physics Letters, 2014, 105, .	3.3	17
18	Solution-processed nickel compound as hole collection layer for efficient polymer solar cells. Journal Physics D: Applied Physics, 2014, 47, 505101.	2.8	9
19	Imaging with organic and hybrid photodetectors. , 2014, , .		3

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21	Understanding Low Bandgap Polymer PTB7 and Optimizing Polymer Solar Cells Based on It. <i>Advanced Materials</i> , 2014, 26, 4413-4430.	21.0	461
22	Improving the Stability of Bulk Heterojunction Solar Cells by Incorporating pH-Neutral PEDOT:PSS as the Hole Transport Layer. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5122-5129.	8.0	65
23	Isopropanol-treated PEDOT:PSS as electron transport layer in polymer solar cells. <i>Organic Electronics</i> , 2014, 15, 3445-3451.	2.6	39
24	Electronic States in Dilute Ternary Blend Organic Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26569-26576.	3.1	33
25	Rationalization of the Selectivity in the Optimization of Processing Conditions for High-Performance Polymer Solar Cells Based on the Polymer Self-Assembly Ability. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29473-29481.	3.1	7
26	Optical Engineering of Uniformly Decorated Graphene Oxide Nanoflakes via in Situ Growth of Silver Nanoparticles with Enhanced Plasmonic Resonance. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21069-21077.	8.0	23
27	Magnetic and Optoelectronic Properties of Gold Nanoclusterâ€“Thiophene Assembly. <i>Angewandte Chemie</i> , 2014, 126, 7444-7447.	2.0	5
28	Supramolecular Engineering of Oligothiophene Nanorods without Insulators: Hierarchical Association of Rosettes and Photovoltaic Properties. <i>Chemistry - A European Journal</i> , 2014, 20, 16128-16137.	3.3	41
29	How Geometric Distortions Scatter Electronic Excitations in Conjugated Macromolecules. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3946-3952.	4.6	7
30	Synthesis and photovoltaic performances in solution-processed BHJs of oligothiophene-substituted organocobalt complexes [(â€“4-C ₄ (nT) ₄)Co(â€“5-C ₅ H ₅)]. <i>Chemical Communications</i> , 2014, 50, 8663-8666.	4.1	11
31	High performance asymmetrical pushâ€“pull small molecules end-capped with cyanophenyl for solution-processed solar cells. <i>Chemical Communications</i> , 2014, 50, 10251-10254.	4.1	61
32	The role of the ethynylene bond on the optical and electronic properties of diketopyrrolopyrrole copolymers. <i>RSC Advances</i> , 2014, 4, 58404-58411.	3.6	3
33	Design of donorâ€“acceptor star-shaped oligomers for efficient solution-processible organic photovoltaics. <i>Faraday Discussions</i> , 2014, 174, 313-339.	3.2	44
34	Polythiophenoazomethines â€“ alternate photoactive materials for organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15620-15626.	10.3	14
35	Third-generation solar cells: a review and comparison of polymer:fullerene, hybrid polymer and perovskite solar cells. <i>RSC Advances</i> , 2014, 4, 43286-43314.	3.6	238
36	Trapping Light with a Nanostructured CeO ₂ /Al Back Electrode for High-Performance Polymer Solar Cells. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400197.	3.7	33
37	Engineering crystalline structures of two-dimensional MoS ₂ sheets for high-performance organic solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7727-7733.	10.3	142
38	Enhancement of photovoltaic efficiency by insertion of a polyoxometalate layer at the anode of an organic solar cell. <i>Inorganic Chemistry Frontiers</i> , 2014, 1, 682-688.	6.0	39

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39	Influence of moiety sequence on the performance of small molecular photovoltaic materials. Journal of Materials Chemistry A, 2014, 2, 15396-15405.	10.3	33
40	A simple and low-cost method for the preparation of self-supported TiO ₂ WO ₃ ceramic heterojunction wafers. Journal of Materials Chemistry A, 2014, 2, 17602-17608.	10.3	19
41	A new class of organic photovoltaic materials: poly(rod-coil) polymers having alternative conjugated and non-conjugated segments. Chemical Communications, 2014, 50, 7720-7722.	4.1	16
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44	Plasmonic nanostructures for light trapping in organic photovoltaic devices. Nanoscale, 2014, 6, 8444.	5.6	150
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47	A universal method to form the equivalent ohmic contact for efficient solution-processed organic tandem solar cells. Journal of Materials Chemistry A, 2014, 2, 14896-14902.	10.3	20
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49	Effects of different polar solvents for solvent vapor annealing treatment on the performance of polymer solar cells. Organic Electronics, 2014, 15, 2647-2653.	2.6	78
50	Spatially Resolving Ordered and Disordered Conformers and Photocurrent Generation in Intercalated Conjugated Polymer/Fullerene Blend Solar Cells. Chemistry of Materials, 2014, 26, 4395-4404.	6.7	30
51	Unusually high SCLC hole mobility in solution-processed thin films of a polycyclic thiophene-based small-molecule semiconductor. Journal of Materials Chemistry C, 2014, 2, 7180-7183.	5.5	36
52	Effect of Chalcogen Atom Substitution on the Optoelectronic Properties in Cyclopentadithiophene Polymers. Macromolecules, 2014, 47, 5889-5894.	4.8	76
53	Simultaneous Enhancement of Solar Cell Efficiency and Photostability via Chemical Tuning of Electron Donating Units in Diketopyrrolopyrrole-Based Push-Pull Type Polymers. Macromolecules, 2014, 47, 6270-6280.	4.8	37
54	Enhanced performance of polymer solar cells by dipole-assisted hole extraction. Solar Energy Materials and Solar Cells, 2014, 130, 15-19.	6.2	16
55	Solution-processed small molecular photocells with neat fullerene. Solar Energy Materials and Solar Cells, 2014, 130, 331-335.	6.2	3
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63	Ternary blend all-polymer solar cells: enhanced performance and evidence of parallel-like bulk heterojunction mechanism. MRS Communications, 2015, 5, 229-234.	1.8	27
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65	Morphology Evolution in High-Performance Polymer Solar Cells Processed from Nonhalogenated Solvent. Advanced Science, 2015, 2, 1500095.	11.2	60
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70	Versatile MoS ₂ Nanosheets in ITO-Free and Semi-transparent Polymer Power-generating Glass. Scientific Reports, 2015, 5, 12161.	3.3	19
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83	Wide bandgap OPV polymers based on pyridinonedithiophene unit with efficiency >5%. <i>Chemical Science</i> , 2015, 6, 4860-4866.	7.4	35
84	Simultaneous Enhancement of Solar Cell Efficiency and Stability by Reducing the Side Chain Density on Fluorinated PCPDTQx Copolymers. <i>Macromolecules</i> , 2015, 48, 3873-3882.	4.8	22
85	Exciton diffusion in organic semiconductors. <i>Energy and Environmental Science</i> , 2015, 8, 1867-1888.	30.8	670
86	Sequential Processing for Organic Photovoltaics: Design Rules for Morphology Control by Tailored Semiâ€‘Orthogonal Solvent Blends. <i>Advanced Energy Materials</i> , 2015, 5, 1402020.	19.5	82
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91	Reduced Carrier Recombination in PbS - CuInS ₂ Quantum Dot Solar Cells. <i>Scientific Reports</i> , 2015, 5, 10626.	3.3	44
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94	Effect of short chain iodoalkane solvent additives on photovoltaic performance of poly(3-hexylthiophene) and phenyl-C61-butyric acid methyl ester based bulk heterojunction solar cells. <i>Thin Solid Films</i> , 2015, 589, 272-277.	1.8	4

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96	Revealing the effect of donor/acceptor intermolecular arrangement on organic solar cells performance based on two-dimensional conjugated small molecule as electron donor. <i>Organic Electronics</i> , 2015, 24, 30-36.	2.6	16
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111	Synthesis, properties, and semiconducting characteristics of electron-transporting three-dimensional π -conjugated compounds containing dicyanomethylene-substituted difluorocyclopenta[b]thiophene. <i>Journal of Fluorine Chemistry</i> , 2015, 174, 75-80.	1.7	3
112	D-A ₁ -D-A ₂ Copolymers with Extended Donor Segments for Efficient Polymer Solar Cells. <i>Macromolecules</i> , 2015, 48, 1009-1016.	4.8	82

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125	Theoretical Description of Structural and Electronic Properties of Organic Photovoltaic Materials. Annual Review of Physical Chemistry, 2015, 66, 305-330.	10.8	82
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137	Role of Polymer in Hybrid Polymer/PbS Quantum Dot Solar Cells. Journal of Physical Chemistry C, 2015, 119, 14972-14979.	3.1	43
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152	Low bandgap copolymers based on monofluorinated isoindigo towards efficient polymer solar cells. <i>Polymer Chemistry</i> , 2015, 6, 6040-6049.	3.9	12
153	Efficient small molecular ternary solar cells by synergistically optimized photon harvesting and phase separation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16653-16662.	10.3	72
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