

25th Anniversary Article: Bulk Heterojunction Solar Cell of Operation

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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.	2.4	31
3	Towards High Performance Organic Photovoltaic Cells: A Review of Recent Development in Organic Photovoltaics. Polymers, 2014, 6, 2473-2509.	2.0	162
4	Synthesis of conjugated polymers containing gallium atoms and evaluation of conjugation through four-coordinate gallium atoms. Chemical Communications, 2014, 50, 15740-15743.	2.2	26
5	Unusually high fluorescence quantum yield of a homopolyfluorenylazomethine " towards a universal fluorophore. Physical Chemistry Chemical Physics, 2014, 16, 24382-24390.	1.3	19
6	Magnetic and Optoelectronic Properties of Gold Nanocluster"Thiophene Assembly. Angewandte Chemie - International Edition, 2014, 53, 7316-7319.	7.2	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.	7.8	27
8	TPD-Based Copolymers with Strong Interchain Aggregation and High Hole Mobility for Efficient Bulk Heterojunction Solar Cells. Macromolecules, 2014, 47, 8570-8577.	2.2	41
9	Tailoring Porphyrin-Based Electron Accepting Materials for Organic Photovoltaics. Journal of the American Chemical Society, 2014, 136, 17561-17569.	6.6	55
10	An Efficient AlE"Active Blue" Emitting Molecule by Incorporating Multifunctional Groups into Tetraphenylsilane. Chemistry - A European Journal, 2014, 20, 7589-7592.	1.7	41
11	Low band gap disk-shaped donors for solution-processed organic solar cells. RSC Advances, 2014, 4, 64589-64595.	1.7	6
12	Effect of Copper Oxide Oxidation State on the Polymer-Based Solar Cell Buffer Layers. ACS Applied Materials & Interfaces, 2014, 6, 22445-22450.	4.0	36
13	Bulk Charge Carrier Transport in Push"Pull Type Organic Semiconductor. ACS Applied Materials & Interfaces, 2014, 6, 20904-20912.	4.0	22
14	Selecting a Donor Polymer for Realizing Favorable Morphology in Efficient Non"fullerene Acceptor"based Solar Cells. Small, 2014, 10, 4658-4663.	5.2	76
15	Enhanced Photovoltaic Performance of Amorphous Copolymers Based on Dithienosilole and Dioxocycloalkene-annelated Thiophene. Chemistry of Materials, 2014, 26, 6971-6978.	3.2	32
16	Synthesis of Anthracene-Based Donor"Acceptor Copolymers with a Thermally Removable Group for Polymer Solar Cells. Macromolecules, 2014, 47, 8585-8593.	2.2	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, .	1.5	17
18	Solution-processed nickel compound as hole collection layer for efficient polymer solar cells. Journal Physics D: Applied Physics, 2014, 47, 505101.	1.3	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.	11.1	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.	4.0	65
23	Isopropanol-treated PEDOT:PSS as electron transport layer in polymer solar cells. <i>Organic Electronics</i> , 2014, 15, 3445-3451.	1.4	39
24	Electronic States in Dilute Ternary Blend Organic Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26569-26576.	1.5	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.	1.5	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.	4.0	23
27	Magnetic and Optoelectronic Properties of Gold Nanoclusterâ€“Thiophene Assembly. <i>Angewandte Chemie</i> , 2014, 126, 7444-7447.	1.6	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.	1.7	41
29	How Geometric Distortions Scatter Electronic Excitations in Conjugated Macromolecules. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3946-3952.	2.1	7
30	Synthesis and photovoltaic performances in solution-processed BHJs of oligothiophene-substituted organocobalt complexes [(1,4-C ₄ (nT) ₄)Co(1,5-C ₅ H ₅)]. <i>Chemical Communications</i> , 2014, 50, 8663-8666.	2.2	11
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32	The role of the ethynylene bond on the optical and electronic properties of diketopyrrolopyrrole copolymers. <i>RSC Advances</i> , 2014, 4, 58404-58411.	1.7	3
33	Design of donorâ€“acceptor star-shaped oligomers for efficient solution-processible organic photovoltaics. <i>Faraday Discussions</i> , 2014, 174, 313-339.	1.6	44
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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.	1.7	238
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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.	5.2	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.	3.0	39

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40	A simple and low-cost method for the preparation of self-supported TiO ₂ /WO ₃ ceramic heterojunction wafers. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17602-17608.	5.2	19
41	A new class of organic photovoltaic materials: poly(rod-coil) polymers having alternative conjugated and non-conjugated segments. <i>Chemical Communications</i> , 2014, 50, 7720-7722.	2.2	16
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51	Unusually high SCLC hole mobility in solution-processed thin films of a polycyclic thiophene-based small-molecule semiconductor. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7180-7183.	2.7	36
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73	Enhancement in Organic Photovoltaic Efficiency through the Synergistic Interplay of Molecular Donor Hydrogen Bonding and π - π Stacking. <i>Advanced Functional Materials</i> , 2015, 25, 5166-5177.	7.8	27
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108	Impact of Blend Morphology on Interface State Recombination in Bulk Heterojunction Organic Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 1090-1101.	7.8	29
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114	Analytical expression for the current-voltage characteristics of organic bulk heterojunction solar cells. AIP Advances, 2015, 5, .	0.6	19
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137	Role of Polymer in Hybrid Polymer/PbS Quantum Dot Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14972-14979.	1.5	43
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142	Cyano-substitution on the end-capping group: facile access toward asymmetrical squaraine showing strong dipole-dipole interactions as a high performance small molecular organic solar cells material. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17704-17712.	5.2	40
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