

# Highly Efficient Solar Cell Polymers Developed via Fine Electronic Properties

Journal of the American Chemical Society

131, 7792-7799

DOI: 10.1021/ja901545q

Citation Report

#	ARTICLE	IF	CITATIONS
7	Practical efficiency limits in organic photovoltaic cells: Functional dependence of fill factor and external quantum efficiency. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	101
8	Photovoltaics literature survey (No. 72). <i>Progress in Photovoltaics: Research and Applications</i> , 2009, 17, 432-439.	4.4	0
9	Streamlined microwave-assisted preparation of narrow-bandgap conjugated polymers for high-performance bulk heterojunction solar cells. <i>Nature Chemistry</i> , 2009, 1, 657-661.	6.6	577
10	The effect of three-dimensional morphology on the efficiency of hybrid polymer solar cells. <i>Nature Materials</i> , 2009, 8, 818-824.	13.3	511
11	Polymer solar cells with enhanced open-circuit voltage and efficiency. <i>Nature Photonics</i> , 2009, 3, 649-653.	15.6	3,015
12	Synthesis of a Low Band Gap Polymer and Its Application in Highly Efficient Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2009, 131, 15586-15587.	6.6	688
13	High Open-Circuit Voltage Photovoltaic Cells with a Low Bandgap Copolymer of Isothianaphthene, Thiophene, and Benzothiadiazole Units. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21928-21936.	1.5	21
14	Synthesis and Photovoltaic Properties of Two Benzo[1,2- <i>b</i> :3,4- <i>b'</i> ]dithiophene-Based Conjugated Polymers. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21202-21207.	1.5	80
15	A Planar Copolymer for High Efficiency Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2009, 131, 14612-14613.	6.6	407
16	Benzothiadiazole-Based Linear and Star Molecules: Design, Synthesis, and Their Application in Bulk Heterojunction Organic Solar Cells. <i>Chemistry of Materials</i> , 2009, 21, 5327-5334.	3.2	137
17	Bandgap and Molecular Level Control of the Low-Bandgap Polymers Based on 3,6-Dithiophen-2-yl-2,5-dihydropyrrolo[3,4- <i>c</i> ]pyrrole-1,4-dione toward Highly Efficient Polymer Solar Cells. <i>Macromolecules</i> , 2009, 42, 6564-6571.	2.2	459
18	Visible to Near-Infrared Light Harvesting in TiO <sub>2</sub> Nanotube Array/P3HT Based Heterojunction Solar Cells. <i>Nano Letters</i> , 2009, 9, 4250-4257.	4.5	282
19	Poly(diketopyrrolopyrrole-terthiophene) for Ambipolar Logic and Photovoltaics. <i>Journal of the American Chemical Society</i> , 2009, 131, 16616-16617.	6.6	721
20	Trannulenes: a new class of photoactive materials for organic photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2009, 19, 7738.	6.7	16
21	Development of New Conjugated Polymers with Donor- $\pi$ -Bridge-Acceptor Side Chains for High Performance Solar Cells. <i>Journal of the American Chemical Society</i> , 2009, 131, 13886-13887.	6.6	335
22	Effects of Porphyrin Substituents and Adsorption Conditions on Photovoltaic Properties of Porphyrin-Sensitized TiO <sub>2</sub> Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18406-18413.	1.5	143
23	Quinoxaline-Based Donor Polymers for Organic Solar Cells. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2010, 23, 293-296.	0.1	7
24	Synthetic Control of Structural Order in <i>N</i> -Alkylthieno[3,4- <i>c</i> ]pyrrole-4,6-dione-Based Polymers for Efficient Solar Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 7595-7597.	6.6	882



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44	Improved Film Morphology Reduces Charge Carrier Recombination into the Triplet Excited State in a Small Bandgap Polymer-Fullerene Photovoltaic Cell. <i>Advanced Materials</i> , 2010, 22, 4321-4324.	11.1	151
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46	When Function Follows Form: Effects of Donor Copolymer Side Chains on Film Morphology and BHJ Solar Cell Performance. <i>Advanced Materials</i> , 2010, 22, 5468-5472.	11.1	315
47	The Use of Tethered Addends to Decrease the Number of Isomers of Bisadduct Analogues of PCBM. <i>Chemistry - A European Journal</i> , 2010, 16, 11250-11253.	1.7	22
49	Enhanced Photovoltaic Performance of Low-Bandgap Polymers with Deep LUMO Levels. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7992-7995.	7.2	282
50	Effects of solution processing on the photovoltaic response of poly(vinyl carbazole) films. <i>Journal of Applied Polymer Science</i> , 2010, 117, 479-485.	1.3	1
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58	Symmetrical molecules of low band gap with a central spacer connected via ether bond with terminal 4-nitro- $\pm$ -cyanostilbene units: Synthesis and application for bulk heterojunction solar cells. <i>Organic Electronics</i> , 2010, 11, 1631-1641.	1.4	3
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69	Short-circuit current density improvement of inverted polymer solar cells using PbPc to enhance photon absorption over 600 nm. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 2451-2454.	3.0	15
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101	Synthesis, Characterization, and Photovoltaic Properties of Carbazole-Based Two-Dimensional Conjugated Polymers with Donor- $\pi$ -Bridge-Acceptor Side Chains. <i>Chemistry of Materials</i> , 2010, 22, 6444-6452.	3.2	95
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995	Catalytic Enantioselective Cyano-trifluoromethylation of Styrenes. <i>ChemistrySelect</i> , 2017, 2, 1129-1132.	0.7	17
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