

Enhanced power-conversion efficiency in polymer solar structure

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Citation Report

#	ARTICLE	IF	CITATIONS
2	MoO ₃ Thickness, Thermal Annealing and Solvent Annealing Effects on Inverted and Direct Polymer Photovoltaic Solar Cells. <i>Materials</i> , 2012, 5, 2521-2536.	1.3	58
3	Immerse precipitation as an efficient protocol to optimize morphology and performance of organic solar cells. <i>Applied Physics Letters</i> , 2012, 101, 233306.	1.5	2
4	Spectral aspects of cavity tuned absorption in organic photovoltaic films. <i>Optics Express</i> , 2012, 20, A954.	1.7	13
5	Themed issue: nanomaterials for energy conversion and storage. <i>Journal of Materials Chemistry</i> , 2012, 22, 24190.	6.7	48
6	High-performance polymer solar cells with a conjugated zwitterion by solution processing or thermal deposition as the electron-collection interlayer. <i>Journal of Materials Chemistry</i> , 2012, 22, 24155.	6.7	76
7	Layer-by-layer processed high-performance polymer solar cells. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	37
8	n-Type Naphthalene Diimide-Biselenophene Copolymer for All-Polymer Bulk Heterojunction Solar Cells. <i>Macromolecules</i> , 2012, 45, 9056-9062.	2.2	123
9	Improved Charge Transport and Absorption Coefficient in Indacenodithieno[3,2-b]thiophene-based Ladder-Type Polymer Leading to Highly Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2012, 24, 6356-6361.	11.1	343
10	Fine tuning the HOMO energy levels of polythieno[3,4-b]thiophene derivatives by incorporation of thiophene-3,4-dicarboxylate moiety for photovoltaic applications. <i>Synthetic Metals</i> , 2012, 162, 2005-2009.	2.1	10
11	A crystalline D-Å-A organic small molecule with naphtho[1,2-b:5,6-b ²]dithiophene-core for solution processed organic solar cells. <i>Organic Electronics</i> , 2012, 13, 3183-3194.	1.4	27
12	Hybrid bulk heterojunction solar cells based on poly(3-hexylthiophene) and ZnO nanoparticles modified by side-chain functional polythiophenes. <i>Thin Solid Films</i> , 2012, 526, 120-126.	0.8	15
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14	Synthesis and photovoltaic properties of conjugated copolymers with benzo[1,2-b:4,5-b ²]dithiophene and thiadiazolo[3,4-c]pyridine moieties. <i>European Polymer Journal</i> , 2013, 49, 2738-2747.	2.6	11
15	Overcoming the "Light-Soaking" Issue in Inverted Organic Solar Cells by the Use of Al:ZnO Electron Extraction Layers. <i>Advanced Energy Materials</i> , 2013, 3, 1437-1444.	10.2	160
16	Facile synthesis of 1-(2,6-diisopropylphenyl)-2,5-di(2-thienyl)pyrrole-based narrow band gap small molecules for solar cell applications. <i>Synthetic Metals</i> , 2013, 176, 96-103.	2.1	11
17	Biopolymer as an electron selective layer for inverted polymer solar cells. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	14
18	Monodisperse Low-Bandgap Macromolecule-Based 5,5-Benzo[c][1,2,5]thiadiazole Swivel Cruciform for Organic Solar Cells. <i>ACS Macro Letters</i> , 2013, 2, 621-624.	2.3	13
19	Advanced Functional Polymers for Increasing the Stability of Organic Photovoltaics. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1546-1558.	1.1	23

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20	A green, low-cost, and highly effective strategy to enhance the performance of hybrid solar cells: Post-deposition ligand exchange by acetic acid. <i>Solar Energy Materials and Solar Cells</i> , 2013, 117, 329-335.	3.0	21
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22	Alkyl Chain Extension as a Route to Novel Thieno[3,2- <i>b</i>]thiophene Flanked Diketopyrrolopyrrole Polymers for Use in Organic Solar Cells and Field Effect Transistors. <i>Macromolecules</i> , 2013, 46, 5961-5967.	2.2	67
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24	"Inorganics-in-Organics": recent developments and outlook for 4G polymer solar cells. <i>Nanoscale</i> , 2013, 5, 8411.	2.8	147
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26	Versatile surface plasmon resonance of carbon-dot-supported silver nanoparticles in polymer optoelectronic devices. <i>Nature Photonics</i> , 2013, 7, 732-738.	15.6	501
27	Solution processed reduced graphene oxide/metal oxide hybrid electron transport layers for highly efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9922.	5.2	74
28	Aluminum nanoparticles for efficient and stable organic photovoltaics. <i>RSC Advances</i> , 2013, 3, 16288.	1.7	38
30	Light Trapping with Dielectric Scatterers in Single- and Tandem-Junction Organic Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 1606-1613.	10.2	30
31	[6,6]-Phenyl- <i>C</i> ₆₁ -Butyric Acid Dimethylamino Ester as a Cathode Buffer Layer for High-Performance Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 1569-1574.	10.2	77
32	Benzodithiophene bridged dimeric perylene diimide amphiphiles as efficient solution-processed non-fullerene small molecules. <i>Polymer Chemistry</i> , 2013, 4, 4631.	1.9	66
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35	Predicting Morphologies of Solution Processed Polymer:Fullerene Blends. <i>Journal of the American Chemical Society</i> , 2013, 135, 12057-12067.	6.6	274
36	Molecular Weight Effect on the Absorption, Charge Carrier Mobility, and Photovoltaic Performance of an Indacenodiselenophene-Based Ladder-Type Polymer. <i>Chemistry of Materials</i> , 2013, 25, 3188-3195.	3.2	155
37	Light trapping enhancement of inverted polymer solar cells with a nanostructured scattering rear electrode. <i>Organic Electronics</i> , 2013, 14, 2158-2163.	1.4	36
38	Toward high efficiency of inverted organic solar cells: Concurrent improvement in optical and electrical properties of electron transport layers. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	22

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40	Low HOMO isoindigo based small molecule for high open-circuit voltage 1.0V solution processed organic solar cells. <i>Synthetic Metals</i> , 2013, 178, 38-43.	2.1	25
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47	Inter-crosslinking through both donor and acceptor with unsaturated bonds for highly efficient and stable organic solar cells. <i>Polymer Chemistry</i> , 2013, 4, 5637.	1.9	14
48	Polythiophenes comprising conjugated pendants toward long-term air-stable inverted polymer solar cells with high open circuit voltages. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8950.	5.2	9
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80	On the identification of deeper defect levels in organic photovoltaic devices. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	41
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148	Power efficiency enhancement of solution-processed small-molecule solar cells based on squaraine via thermal annealing and solvent additive methods. <i>Solar Energy Materials and Solar Cells</i> , 2013, 109, 262-269.	3.0	29
149	ITO Interface Modifiers Can Improve V_{OC} in Polymer Solar Cells and Suppress Surface Recombination. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 4038-4044.	2.1	78
150	Surface Plasmon Enhanced Organic Solar Cells with a MoO_3 Buffer Layer. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12847-12853.	4.0	58
151	High-Performance Polymer Solar Cells with Solution-Processed and Environmentally Friendly CuO Anode Buffer Layer. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10658-10664.	4.0	77
152	Complementary Hydrogen Bonding and Block Copolymer Self-Assembly in Cooperation toward Stable Solar Cells with Tunable Morphologies. <i>Macromolecules</i> , 2013, 46, 9021-9031.	2.2	53
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154	Electron-Hole Diffusion Lengths Exceeding 1 Micrometer in an Organometal Trihalide Perovskite Absorber. <i>Science</i> , 2013, 342, 341-344.	6.0	8,703
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158	Electrospun Organic Nanofiber Electronics and Photonics. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 475-486.	1.7	83
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161	Surface Modification of a ZnO Electron-Collecting Layer Using Atomic Layer Deposition to Fabricate High-Performing Inverted Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 8718-8723.	4.0	58
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164	Greatly Reduced Processing Temperature for a Solution-Processed NiO Buffer Layer in Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 1614-1622.	10.2	88

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167	Enhanced charge extraction of polymer solar cell by solution-processable gold nanoparticles. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5402-5409.	2.7	10
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179	25th Anniversary Article: A Decade of Organic/Polymeric Photovoltaic Research. <i>Advanced Materials</i> , 2013, 25, 6642-6671.	11.1	1,055
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181	Interface Control of Semiconducting Metal Oxide Layers for Efficient and Stable Inverted Polymer Solar Cells with Open-Circuit Voltages over 1.0 Volt. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9015-9025.	4.0	64
182	Designing π -conjugated polymers for organic electronics. <i>Progress in Polymer Science</i> , 2013, 38, 1832-1908.	11.8	698

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191	A star-shaped electron acceptor based on 5,5'-bibenzothiadiazole for solution processed solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14627.	5.2	38
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222	Synthesis of new n-type isoindigo copolymers. <i>Polymer Chemistry</i> , 2013, 4, 1836.	1.9	91
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276	Correlating triplet yield, singlet oxygen generation and photochemical stability in polymer/fullerene blend films. <i>Chemical Communications</i> , 2013, 49, 1291.	2.2	136
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280	Enhanced performance in inverted polymer solar cells via solution process: Morphology controlling of PEDOT:PSS as anode buffer layer by adding surfactants. <i>Organic Electronics</i> , 2013, 14, 1629-1635.	1.4	29
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282	Toward High-Performance Semi-Transparent Polymer Solar Cells: Optimization of Ultra-Thin Light Absorbing Layer and Transparent Cathode Architecture. <i>Advanced Energy Materials</i> , 2013, 3, 417-423.	10.2	141
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287	The Effect of Organic and Metal Oxide Interfacial layers on the Performance of Inverted Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2013, 3, 391-398.	10.2	40
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1988	Al-doping effects on the photovoltaic performance of inverted polymer solar cells. <i>Optoelectronics Letters</i> , 2016, 12, 106-109.	0.4	2
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2000	Solution-processed MoS ₂ thin-films as hole-transport layers for efficient polymer solar cells. <i>RSC Advances</i> , 2016, 6, 39137-39143.	1.7	8
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2007	Graphene and transition metal dichalcogenide nanosheets as charge transport layers for solution processed solar cells. <i>Materials Today</i> , 2016, 19, 580-594.	8.3	79
2008	Two-dimensional conjugated copolymers composed of diketopyrrolopyrrole, thiophene, and thiophene with side chains for binary and ternary polymer solar cells. <i>Organic Electronics</i> , 2016, 33, 213-220.	1.4	9
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2449	Inverted polymer solar cells with Zn ₂ SnO ₄ nanoparticles as the electron extraction layer. <i>Chinese Chemical Letters</i> , 2017, 28, 1755-1759.	4.8	3
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2457	Interfacial Reaction of Fullerypyrrolidines Affecting Organic Photovoltaic Performance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21338-21345.	4.0	10
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