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Upscaling of polymer solar cell fabrication using full roll-to-roll processing

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#	Paper	IF	Citations
950	Product integration of compact roll-to-roll processed polymer solar cell modules: methods and manufacture using flexographic printing, slot-die coating and rotary screen printing. 2010 , 20, 8994		561
949	Inverted polymer solar cells with indium sulfide electron selective layer. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 2212-2217	6.4	20
948	Bulk heterojunction solar cells with NiO hole transporting layer based on AZO anode. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 2328-2331	6.4	45
947	Photocurrent generation in plain [6,6]-phenyl C61 butyric acid methyl ester. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 2422-2425	6.4	3
946	Symmetrical molecules of low band gap with a central spacer connected via ether bond with terminal 4-nitro-Etyanostilbene units: Synthesis and application for bulk heterojunction solar cells. 2010 , 11, 1631-1641		3
945	Improving photovoltaic properties by incorporating both SPFGraphene and functionalized multiwalled carbon nanotubes. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 2148-2153	6.4	38
944	Temperature dependence of open-circuit voltage in organic solar cells from generationEecombination kinetic balance. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 2166-2169	6.4	66
943	Organic solar cells employing magnetron sputtered p-type nickel oxide thin film as the anode buffer layer. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 2332-2336	6.4	80
942	Spray-deposited PEDOT:PSS for inverted organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 2371-2374	6.4	71
941	Morphological study of P3HT:PCBM blend films prepared through solvent annealing for solar cell applications. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 2426-2430	6.4	105
940	A morphology controller for high-efficiency bulk-heterojunction polymer solar cells. 2010 , 20, 10919		27
939	Side Chain Effects of Poly(3-alkylthiophene) on the Morphology and Performance of Polymer Solar Cells. 2010 , 157, B1336		24
938	Antimony tin oxide (ATO) nanoparticle formation from H2O2 solutions: a new generic film coating from basic solutions. 2010 , 49, 9110-2		37
937	Low Band Gap Polymers for Roll-to-Roll Coated Polymer Solar Cells. 2010 , 43, 8115-8120		121
936	Performance and Stability Improvement of P3HT:PCBM-Based Solar Cells by Thermally Evaporated Chromium Oxide (CrOx) Interfacial Layer. 2010 , 2, 2699-2702		65
935	Organic photovoltaics: principles and techniques for nanometre scale characterization. 2010 , 21, 49200	01	68
934	Design and optimization of photovoltaics recycling infrastructure. 2010 , 44, 8678-83		47

(2011-2010)

933	Multi-colored dye sensitization of polymer/fullerene bulk heterojunction solar cells. 2010 , 46, 6596-8	133
932	Bulk heterojunction photovoltaics using broadly absorbing small molecules based on 2-styryl-5-phenylazo-pyrrole. 2010 , 26, 17739-48	7
931	Thiophene-containing Pechmann dye derivatives. 2010 , 12, 4816-9	28
930	Grid-connected polymer solar panels: initial considerations of cost, lifetime, and practicality. 2010 , 18 Suppl 3, A272-85	97
929	Realization of efficient semitransparent organic photovoltaic cells with metallic top electrodes: utilizing the tunable absorption asymmetry. 2010 , 18 Suppl 4, A513-21	32
928	Sputter deposited p-type nickel oxide thin films as an anode buffer layer in organic solar cells. 2011	
927	Nanoengineering and interfacial engineering of photovoltaics by atomic layer deposition. Nanoscale, 2011 , 3, 3482-508	144
926	Polymer/polymer blend solar cells with 2.0% efficiency developed by thermal purification of nanoscale-phase-separated morphology. 2011 , 3, 2924-7	94
925	Novel non-flat photovoltaic module geometries and implications to power conversion. 2011,	8
924	Charge Mobilities in Conjugated Polymers Measured by Pulse Radiolysis Time-Resolved Microwave Conductivity: From Single Chains to Solids. 2011 , 2, 2951-2958	65
923	Life-cycle analysis of product integrated polymer solar cells. 2011 , 4, 1547	83
922	Photovoltaic performance of PPE-PPV copolymers: effect of the fullerene component. 2011 , 21, 2356-2361	30
921	The Harvard Clean Energy Project: Large-Scale Computational Screening and Design of Organic Photovoltaics on the World Community Grid. 2011 , 2, 2241-2251	367
920	Preparation of active layers in polymer solar cells by aerosol jet printing. 2011 , 3, 4053-8	72
919	Current challenges in organic photovoltaic solar energy conversion. 2012 , 312, 175-212	25
918	Moving through the phase diagram: morphology formation in solution cast polymer-fullerene blend films for organic solar cells. 2011 , 5, 8579-90	144
917	Stretchable, elastic materials and devices for solar energy conversion. 2011 , 4, 3314	322
916	Printable photo-supercapacitor using single-walled carbon nanotubes. 2011 , 4, 413-416	167

915	Bulk heterojunction photovoltaic cells based on tetra-methyl substituted copper(II) phthalocyanine:P3HT:PCBM composite. 2011 , 47, 9654-6		47
914	Synthesis and characterization of a thiazolo[5,4-d]thiazole-based copolymer for high performance polymer solar cells. 2011 , 47, 1791-3		127
913	Inverted ITO-free organic solar cells based on p and n semiconducting oxides. New designs for integration in tandem cells, top or bottom detecting devices, and photovoltaic windows. 2011 , 4, 453-4	58	55
912	Semitransparent organic solar cells with organic wavelength dependent reflectors. 2011 , 98, 043302		28
911	Efficient Bulk Heterojunction Solar Cells Based on a Broadly Absorbing Phenylenevinylene Copolymer Containing Thiophene and Pyrrole Rings. 2011 , 115, 7056-7066		18
910	Ladder-type heteroacene polymers bearing carbazole and thiophene ring units and their use in field-effect transistors and photovoltaic cells. 2011 , 21, 843-850		45
909	Aqueous processing of low-band-gap polymer solar cells using roll-to-roll methods. 2011 , 5, 4188-96		207
908	Solution-processed nanocrystalline TiO2 buffer layer used for improving the performance of organic photovoltaics. 2011 , 3, 1063-7		37
907	Effect of Molybdenum Oxide Anode Buffer Layer on the Performance of Inverted Small Molecular Organic Solar Cells. 2011 , 12, 513-518		3
906	Photochemical stability of £conjugated polymers for polymer solar cells: a rule of thumb. 2011 , 21, 4137	2	224
905	A cyclopentadithiophene/thienopyrroledione-based donor\(\text{Bcceptor copolymer for organic solar cells.}\) Synthetic Metals, \(\text{2011}\), 161, 1137-1140	3.6	16
904	Performance of OPVs cells with the eutectic alloy Wood's metal used as cathode and P3HT:PC61BM blend as active layer. <i>Synthetic Metals</i> , 2011 , 161, 2412-2416	3.6	8
903	The OE-A OPV demonstrator anno domini 2011. 2011 , 4, 4116		177
902	Organic solar cells under the BHJ approach using conventional/inverted architectures. 2011 ,		
			l control of the cont
901	Nano-scale mechanical properties of polymer/fullerene bulk hetero-junction films and their influence on photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2976-2980	6.4	23
901		6.4	23 18
	influence on photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2976-2980 Controlled growth of dibenzotetraphenylperiflanthene thin films by varying substrate temperature	·	-

897	Effect of solution processed graphene oxide/nickel oxide bi-layer on cell performance of bulk-heterojunction organic photovoltaic. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2893-2896	6.4	47
896	Enhanced efficiency of organic photovoltaic cells using solution-processed metal oxide as an anode buffer layer. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3015-3020	6.4	33
895	Enhancing the short-circuit current and efficiency of organic solar cells using MoO3 and CuPc as buffer layers. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2914-2919	6.4	46
894	Spontaneous formation of nanoripples on the surface of ZnO thin films as hole-blocking layer of inverted organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3036-3036	6.4	19
893	Bulk heterojunction organic solar cells utilizing 1,4,8,11,15,18,22,25-octahexylphthalocyanine. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3087-3087	6.4	28
892	Fabrication of highly ordered and vertically oriented TiO2 nanotube arrays for ordered heterojunction polymer/inorganic hybrid solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 315	2 ⁶ 3452	25
891	Electrical properties of inverted poly(3-hexylthiophene): Methano-fullerene [6,6]-phenyl C71-butyric acid methyl ester bulk hetero-junction solar cell with Cs2CO3 and MoO3 layers. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3276-3280	6.4	20
890	Efficient polymer nanocrystal hybrid solar cells by improved nanocrystal composition. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3227-3232	6.4	43
889	Influence of thermal radiation during aluminum thermal evaporation on organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3311-3317	6.4	8
888	Degradation mechanism of organic solar cells with aluminum cathode. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3303-3310	6.4	56
887	Development of DA-type polymers with phthalimide derivatives as electron withdrawing units and a promising strategy for the enhancement of photovoltaic properties. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3377-3384	6.4	32
886	Effect of blend composition in BisEH-PFDTBT:PC70BM solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3428-3432	6.4	4
885	Investigations of efficiency improvements in poly(3-hexylthiophene) based organic solar cells using calcium cathodes. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3424-3427	6.4	22
884	Size-dependent behavior of polymer solar cells measured under partial illumination. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3516-3519	6.4	8
883	Vacuum-free processed transparent inverted organic solar cells with spray-coated PEDOT:PSS anode. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3579-3584	6.4	36
882	Antimony doped tin oxide coating of muscovite clays by the Pechini route. 2011 , 520, 152-158		13
881	Substrate treatment and drying conditions effect on the properties of roll-to-roll gravure printed PEDOT:PSS thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 1556-1561	3.1	21
880	Review of materials and manufacturing options for large area flexible dye solar cells. 2011 , 15, 3717-37	'32	163

879	Influence of solution heating on the properties of PEDOT:PSS colloidal solutions and impact on the device performance of polymer solar cells. 2011 , 12, 1736-1745		37
878	Inverted polymer solar cells with atomic layer deposited CdS film as an electron collection layer. 2011 , 12, 2151-2158		24
877	Fabrication of high performance Pt/Ti counter electrodes on Ti mesh for flexible large-area dye-sensitized solar cells. 2011 , 58, 621-627		26
876	Synthesis and investigation of photovoltaic properties for polymer semiconductors based on porphyrin compounds as light-harvesting units. 2011 , 47, 1686-1693		38
875	Efficient donor cceptor type polymer semiconductors with well-balanced energy levels and enhanced open circuit voltage properties for use in organic photovoltaics. 2011 , 21, 16480		47
874	Photochemical stability and photovoltaic performance of low-band gap polymers based on dithiophene with different bridging atoms. 2011 , 2, 1355		16
873	Silicon thin film solar cells on commercial tiles. 2011 , 4, 4620		57
872	Economic assessment of solar electricity production from organic-based photovoltaic modules in a domestic environment. 2011 , 4, 3741		258
871	Tungsten Lamps as an Affordable Light Source for Testing of Photovoltaic Cells. 2011 , 27, 403-410		6
870	Degradation and stabilization of poly(3-hexylthiophene) thin films for photovoltaic applications. <i>Polymer Bulletin</i> , 2011 , 66, 211-222	2.4	28
869	Effect of film and device annealing in polymer:polymer solar cells with a LiF nanolayer. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 382-386	3.1	10
868	Electrodepostied polyaniline films decorated with nano-islands: Characterization and application as anode buffer layers in solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 440-445	6.4	17
867	Spray-coated organic solar cells with large-area of 12.25 cm2. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 852-855	6.4	64
866	Biindene-C60 adducts for the application as acceptor in polymer solar cells with higher open-circuit-voltage. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 899-903	6.4	30
865	Temperature dependence of polymer/fullerene organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 933-941	6.4	27
864	Efficiency enhancement for bulk-heterojunction hybrid solar cells based on acid treated CdSe quantum dots and low bandgap polymer PCPDTBT. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 123	32 ⁶ 1237	7 106
863	An inter-laboratory stability study of roll-to-roll coated flexible polymer solar modules. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1398-1416	6.4	127
862	A regioregular head to tail thiophene based double-cable polymer with pendant anthraquinone functional groups: Preparation, spectroscopy and photovoltaic properties. <i>Solar Energy Materials</i>	6.4	9

(2011-2011)

861	Synthesis and photovoltaic properties of biindene-C70 monoadduct as acceptor in polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1762-1766	6.4	20
860	Dimethyl-2H-benzimidazole based small molecules as donor materials for organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1838-1845	6.4	16
859	Solution-processed bulk heterojunction organic solar cells with high polarity small molecule sensitizer. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2069-2076	6.4	12
858	Gold nanomesh induced surface plasmon for photocurrent enhancement in a polymer solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2102-2106	6.4	33
857	Efficiency improvement in organic solar cells by inserting a discotic liquid crystal. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2200-2205	6.4	47
856	Phenanthrene-functionalized 3,6-dithiophen-2-yl-2,5- dihydropyrrolo[3,4व]pyrrole-1,4-diones as donor molecules for solution-processed organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2516-2523	6.4	38
855	Solution processable quinacridone based materials as acceptor for organic heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2670-2676	6.4	25
854	Synthesis and photovoltaic properties of low-bandgap 4,7-dithien-2-yl-2,1,3-benzothiadiazole-based poly(heteroarylenevinylene)s. 2011 , 49, 2715-2724		26
853	Bulk heterojunction polymer solar cells based on binary and ternary blend systems. 2011 , 49, 4416-442	24	21
852	Block copolymer strategies for solar cell technology. 2011 , 49, 1131-1156		163
851	Synthesis and photovoltaic properties of ester group functionalized polythiophene derivatives. 2011 , 32, 506-11		32
850	High-Performance Organic Solar Cells with Spray-Coated Hole-Transport and Active Layers. 2011 , 21, 64-72		177
849	Bulk Heterojunction Organic Photovoltaics Based on Carboxylated Polythiophenes and PCBM on Glass and Plastic Substrates. 2011 , 21, 1816-1826		38
848	Stretchable organic solar cells. 2011 , 23, 1771-5		692
847	Efficient heterojunction photovoltaic cell utilizing nanocomposites of lead sulfide nanocrystals and a low-bandgap polymer. 2011 , 23, 3984-8		140
846	Simultaneous enhancement of open-circuit voltage, short-circuit current density, and fill factor in polymer solar cells. 2011 , 23, 4636-43		1860
845	High-performance organic optoelectronic devices enhanced by surface plasmon resonance. 2011 , 23, 5689-93		132
844	An Electrode Design Rule for Organic Photovoltaics Elucidated Using Molecular Nanolayers. 2011 , 1, 440-447		17

843	Near IR-Sensitive, Non-toxic, Polymer/Nanocrystal Solar Cells Employing Bi2S3 as the Electron Acceptor. 2011 , 1, 1029-1035	63
842	A Direct Route Towards Polymer/Copper Indium Sulfide Nanocomposite Solar Cells. 2011 , 1, 1046-1050	97
841	Micro-contact printing of poly(3-hexylthiophene) as a tool to improve orientation and ordering of the P3HT layer. 2011 , 46, 823-826	1
840	All-Polymer Solar Cells from Perylene Diimide Based Copolymers: Material Design and Phase Separation Control. 2011 , 123, 2851-2855	25
839	All-polymer solar cells from perylene diimide based copolymers: material design and phase separation control. 2011 , 50, 2799-803	379
838	Spatially resolved drying kinetics of multi-component solution cast films for organic electronics. 2011 , 50, 509-515	21
837	Towards well-structured fullerenephthalocyanine composites: Co-aggregation of fullerene C60 with tetrakis(4-amino-5-phenoxy)phthalocyanine. 2011 , 377, 393-401	3
836	A solution process for inverted tandem solar cells. 2011 , 12, 364-371	36
835	ITO-free flexible polymer solar cells: From small model devices to roll-to-roll processed large modules. 2011 , 12, 566-574	217
834	Influence of the exciton blocking layer on the stability of layered organic solar cells. 2011 , 72, 97-103	35
833	Optimization of a polymer top electrode for inverted semitransparent organic solar cells. 2011 , 12, 827-831	53
832	Semitransparent polymer solar cells using V2O5/Ag/V2O5 as transparent anodes. 2011 , 12, 1223-1226	66
831	Nanostructured carbon and polymer materials (S ynthesis and their application in energy conversion devices. 2011 , 36, 1014-1018	5
830	Perylene imide dyes for solid-state dye-sensitized solar cells: Spectroscopy, energy levels and photovoltaic performance. 2011 , 36, 1821-1825	24
829	Abundant non-toxic materials for thin film solar cells: Alternative to conventional materials. 2011 , 36, 2753-2758	79
828	PhotovoltaicEhermal solar energy collectors based on optical tubes. 2011 , 85, 450-454	23
827	ITO-free flexible organic solar cells with printed current collecting grids. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1339-1343	298
826	A life cycle analysis of polymer solar cell modules prepared using roll-to-roll methods under ambient conditions. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1293-1302	280

825	Hybrid solar cells based on tetrapod nanocrystals: The effects of compositions and type II heterojunction on hybrid solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 446-4	52 ^{6.4}	18	
824	Synthesis and application in solar cell of poly(3-octylthiophene)/cadmium sulfide nanocomposite. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 483-490	6.4	20	
823	Long-term operational lifetime and degradation analysis of P3HT:PCBM photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1303-1307	6.4	140	
822	Copolymer derived from dihexyl-2H-benzimidazole and carbazole for organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 521-528	6.4	8	
821	Organic solar cells incorporating buffer layers from indium doped zinc oxide nanoparticles. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 579-585	6.4	37	
820	On the use of Woods metal for fabricating and testing polymeric organic solar cells: An easy and fast method. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 595-601	6.4	18	
819	Anode engineering for photocurrent enhancement in a polymer solar cell and applied on plastic substrate. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 611-617	6.4	2	
818	Tetrabutyl-tetraphenyl-diindenoperylene derivatives as alternative green donor in bulk heterojunction organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 630-635	6.4	7	
817	Effects of deposition temperature on characteristics of Ga-doped ZnO film prepared by highly efficient cylindrical rotating magnetron sputtering for organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 657-663	6.4	44	
816	Organic photovoltaic cells based on TPBi as a cathode buffer layer. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 664-668	6.4	67	
815	Investigation of multi-donor bulk-heterojunction photovoltaic cells based on P3HT:PCBM system. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 684-687	6.4	5	
814	Preparation of smooth and dense composite films consisting of MEHPPV and neat C60 by means of electrophoretic deposition. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 688-692	6.4	7	
813	Photovoltaic properties of poly(benzothiadiazole-thiophene-co-bithiophene) as donor in polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 704-711	6.4	25	
812	Sputtered NiO as electron blocking layer in P3HT:PCBM solar cells fabricated in ambient air. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 735-739	6.4	61	
811	The effect of C60 on the ZnO-nanorod surface in organic[horganic hybrid photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 740-744	6.4	46	
810	Printed metal back electrodes for R2R fabricated polymer solar cells studied using the LBIC technique. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1348-1353	6.4	126	
809	Semitransparent inverted polymer solar cells using MoO3/Ag/WO3 as highly transparent anodes. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 877-880	6.4	58	
808	Photocurrent generation in fullereneßhthalocyanine composite by in situ cationic polymerization. Solar Energy Materials and Solar Cells, 2011, 95, 909-916	6.4	4	

807	Organic solar cells with 2-Thenylmercaptan/AU self-assembly film as buffer layer. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 917-920	6.4	6
806	The role of energy level matching in organic solar cellsHexaazatriphenylene hexacarbonitrile as transparent electron transport material. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 927-932	6.4	37
805	ITO-free flexible inverted organic solar cell modules with high fill factor prepared by slot die coating. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1587-1589	6.4	100
804	Solar cells made from polymers containing Dithieno[3,2-b:2?,3?-d]pyrrole with different side chain lengths. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 969-973	6.4	12
803	Synthesis and organic photovoltaic (OPV) properties of triphenylamine derivatives based on a hexafluorocyclopentene Bore Solar Energy Materials and Solar Cells, 2011 , 95, 992-1000	6.4	26
802	Nitrogen doped amorphous chromium oxide: Stability improvement and application for the hole-transporting layer of organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1005-1010	6.4	42
801	Improved high temperature stability of organic solar cells using a phosphine oxide type cathode modification layer. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1102-1106	6.4	15
800	CuinS2Poly(3-(ethyl-4-butanoate)thiophene) nanocomposite solar cells: Preparation by an in situ formation route, performance and stability issues. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1354	-9361	44
799	The effect of introducing a buffer layer to polymer solar cells on cell efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1119-1122	6.4	37
798	Influence of the hole-transport layer on the initial behavior and lifetime of inverted organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1382-1388	6.4	107
797	Environment-friendly energy from all-carbon solar cells based on fullerene-C60. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1138-1140	6.4	15
796	Improved photovoltaic effect of polymer solar cells on planarized 2D photonic crystals. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1141-1145	6.4	10
795	Morphological and electrical effect of an ultrathin iridium oxide hole extraction layer on P3HT:PCBM bulk-heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1146-1150	6.4	23
794	Synthesis of low bandgap polymer based on 3,6-dithien-2-yl-2,5-dialkylpyrrolo[3,4-c]pyrrole-1,4-dione for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1168-1173	6.4	33
793	Water and oxygen induced degradation of small molecule organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1268-1277	6.4	118
792	Co-planar bi-metallic interdigitated electrode substrate for spin-coated organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1594-1597	6.4	12
791	ITO-free inverted polymer solar cells using a GZO cathode modified by ZnO. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1610-1614	6.4	50
790	Nano-sized Ag-inserted amorphous ZnSnO3 multilayer electrodes for cost-efficient inverted organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1615-1623	6.4	69

789	Molecular engineering of Diketopyrrolopyrrole-based photosensitizer for solution processed small molecule bulk heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1731-1740	6.4	32
788	Integration of an M-phthalocyanine layer into solution-processed organic photovoltaic cells for improved spectral coverage. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1970-1973	6.4	24
787	Recent development of the inverted configuration organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1785-1799	6.4	190
786	Design of new benzothiadiazole-based linear and star molecules with different functional groups as solar cells materials: A theoretical approach. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1800-18	1 ⁶ 0 ⁴	28
7 ⁸ 5	Influence of n-type chemical doping layer on the performance of organic photovoltaic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1896-1900	6.4	8
7 ⁸ 4	Ag grid/ITO hybrid transparent electrodes prepared by inkjet printing. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1974-1978	6.4	65
783	Effects of a perfluorinated compound as an additive on the power conversion efficiencies of polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1908-1914	6.4	25
782	Investigation of recombination loss in organic solar cells by simulating intensity-dependent current loltage measurements. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2557-2563	6.4	35
781	Performance of electron beam deposited tungsten doped indium oxide films as anodes in organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2173-2177	6.4	11
78o	Indium-free, acid-resistant anatase Nb-doped TiO2 electrodes activated by rapid-thermal annealing for cost-effective organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2178-2185	6.4	35
779	New amorphous small molecules Bynthesis, characterization and their application in bulk heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2272-2280	6.4	39
778	Triphenylamine-substituted methanofullerene derivatives for enhanced open-circuit voltages and efficiencies in polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2371-2379	6.4	20
777	Efficiency enhancement in large-area organic photovoltaic module using theoretical power loss model. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2380-2383	6.4	14
776	Optimization of organic solar cells with thin film Au as anode. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2424-2430	6.4	40
775	An amorphous silicon random nanocone/polymer hybrid solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2431-2436	6.4	19
774	Improving the efficiency of organic solar cell with a novel ambipolar polymer to form ternary cascade structure. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2621-2627	6.4	59
773	Vertical concentration gradients in bulk heterojunction solar cells induced by differential material solubility. 2011 , 519, 4132-4135		11
772	Polymerizable fullerene-based material for organic solar cells. 2011 , 519, 4119-4122		6

771	Stability Improvement of Polymer Based Solar Cells by Thermally Evaporated Cr2O3 Interfacial Layer. 2011 , 1312, 1		
770	Performance of Co-Donor Photovoltaic Devices Based on Graphene-Accceptor System. 2011 , 396-398, 2471-2475		
769	The influence of active cell design on a monolithic organic photovoltaic module: fabrication and simulation. 2011 ,		
768	Roll-to-Roll Processing of Inverted Polymer Solar Cells using Hydrated Vanadium(V)Oxide as a PEDOT:PSS Replacement. 2011 , 4, 169-182		68
767	Effect of the Substrate Temperature on the Performance of Small Molecule Organic Solar Cells. 2011 ,		
766	Low Band Gap Polymers for Roll-to-Roll Coated Organic Photovoltaics Design, Synthesis and Characterization. 2011 , 1,		7
765	Polymer-Based Solar Cells: State-of-the-Art Principles for the Design of Active Layer Components. 2011 , 1,		48
764	Enhanced stability of zinc oxide-based hybrid polymer solar cells by manipulating ultraviolet light distribution in the active layer. 2011 , 98, 203304		30
763	Solution processed LiF anode modification for polymer solar cells. 2012 , 100, 253303		21
762	Ambient fabrication of flexible and large-area organic light-emitting devices using slot-die coating. 2012 , 3, 1002		345
761	Feasibility of Printing Woven Humidity and Temperature Sensors for the Integration into Electronic Textiles. 2012 , 80, 77-82		9
760	Printed polymer solar cells. 2012 , 550-574		
759	B olymer Solar Modules: Laser Structuring and Quality Control by Lock-In Thermography□ 2012 , 1390, 77		
75 ⁸	All solution processing of ITO-free organic solar cell modules directly on barrier foil. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 107, 329-336	6.4	71
757	High-throughput roll-to-roll X-ray characterization of polymer solar cell active layers. 2012 , 22, 22501		25
756	A computational proof toward correlation between the theoretical chemical concept of electrophilicity index for the acceptors of C60 and C70 fullerene derivatives with the open-circuit voltage of polymer-fullerene solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 105, 125-131	6.4	24
755	Imparting chemical stability in nanoparticulate silver via a conjugated polymer casing approach. 2012 , 4, 4357-65		47
754	Morphology of all-polymer solar cells. 2012 , 5, 5653		255

753	Self-Assembled Poly(ethylene glycol) Buffer Layers in Polymer Solar Cells: Toward Superior Stability and Efficiency. 2012 , 116, 1354-1360		40	
75 ²	High performance organic photovoltaic cells with blade-coated active layers. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 107, 292-297	6.4	34	
751	Nanobasierte Energiegewinnung in autarken Mikro-/Nanosystemen. 2012 , 124, 11868-11891		19	
75°	Nanotechnology-enabled energy harvesting for self-powered micro-/nanosystems. 2012 , 51, 11700-21		747	
749	Self-assembly of well-ordered whisker-like manganese oxide arrays on carbon fiber paper and its application as electrode material for supercapacitors. 2012 , 22, 8634		231	
748	Enhanced charge transport in hybrid polymer/ZnO-nanorod solar cells assisted by conductive small molecules. 2012 , 22, 15726		36	
747	Incorporation of ester groups into low band-gap diketopyrrolopyrrole containing polymers for solar cell applications. 2012 , 22, 15710		40	
746	Stable organic photovoltaics using Ag thin film anodes. 2012 , 22, 6894		24	
745	Fabrication of nanocrystal ink based superstrate-type CuInSILhin film solar cells. 2012, 23, 265401		17	
744	Solution processed bulk heterojunction polymer solar cells with low band gap DPP-CN small molecule sensitizer. 2012 , 13, 1756-1762		36	
743	Functionalized dihydronaphthyl-C60 derivatives as acceptors for efficient polymer solar cells with tunable photovoltaic properties. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 104, 113-120	6.4	24	
742	Solution-processed LiF for work function tuning in electrode bilayers. 2012 , 12, 39-44		27	
74 ¹	Rational Design of High Performance Conjugated Polymers for Organic Solar Cells. 2012 , 45, 607-632		1330	
740	Aesthetically pleasing conjugated polymer:fullerene blends for blue-green solar cells via roll-to-roll processing. 2012 , 4, 1847-53		46	
739	Solution-processed inverted polymer solar cells using chemical bath deposited CdS films as electron collecting layer. 2012 , 14, 8090		7	
738	Continuous flow synthesis of conjugated polymers. 2012 , 48, 1598-600		39	
737	Investigation of CuInS2 thin film formation by a low-temperature chemical deposition method. 2012 , 4, 382-90		18	
736	Improvement of interfacial contacts for new small-molecule bulk-heterojunction organic photovoltaics. 2012 , 24, 5368-73		123	

735	Modular construction and deconstruction of organic solar cells. 2012, 58, 3280-3288		6
734	Roll-to-roll fabrication of multilayer films for high capacity optical data storage. 2012 , 24, 5222-6, 5146		47
733	High-efficiency inverted dithienogermole!hienopyrrolodione-based polymer solar cells. 2012 , 6, 115-120		874
73²	Photochemical stability of conjugated polymers, electron acceptors and blends for polymer solar cells resolved in terms of film thickness and absorbance. 2012 , 22, 7592		73
731	Rapid dye-sensitized solar cell working electrode preparation using far infrared rapid thermal annealing. 2012 , 100, 138-143		11
730	Mechanical integrity of flexible Ag nanowire network electrodes coated on colorless PI substrates for flexible organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 105, 69-76	ł	85
729	Reel-to-reel wet coating by variation of solvents and compounds of photoactive inks for polymer solar cell production. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 107, 283-291	ļ	32
728	OrganicIhorganic hybrid solar cells: A comparative review. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 107, 87-111	ļ	475
727	Highly near-infrared transparent GeO2-doped In2O3 electrodes for bulk heterojunction organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 107, 373-380	ļ	7
726	Effects of metal-free conjugated oligomer as a surface modifier in hybrid polymer/ZnO solar cells. Solar Energy Materials and Solar Cells, 2012 , 107, 69-74	ļ	19
7 2 5	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.	Ó	10
724	Large area ITO-free organic solar cells on steel substrate. 2012 , 13, 3310-3314		37
723	Determination of the structure, morphology and complex refractive index in ZnO-nanopencils/P3HT hybrid structures. 2012 , 135, 401-410		28
722	Direct correlation between work function of indium-tin-oxide electrodes and solar cell performance influenced by ultraviolet irradiation and air exposure. 2012 , 14, 12014-21		83
721	Bithiopheneimide-dithienosilole/dithienogermole copolymers for efficient solar cells: information from structure-property-device performance correlations and comparison to thieno[3,4-c]pyrrole-4,6-dione analogues. 2012 , 134, 18427-39		239
720	Rapid flash annealing of thermally reactive copolymers in a roll-to-roll process for polymer solar cells. 2012 , 3, 2649		33
719	Large-scale roll-to-roll photonic sintering of flexo printed silver nanoparticle electrodes. 2012 , 22, 15683		130
718	Organic photovoltaic devices with colloidal TiO2 nanorods as key functional components. 2012 , 14, 3987-9	5	21

717	Inverted polymer solar cells fabricated by a pre-metered coating process. 2012 , 22, 23022	9
716	Direct observation of sub-100 fs mobile charge generation in a polymer-fullerene film. 2012 , 108, 056603	66
715	Diminishing of S-shaped J-V curves by substrate heating in organic solar cells based on triplet materials. 2012 ,	
714	Electronic Properties of Transparent Conductive Films of PEDOT:PSS on Stretchable Substrates. 2012 , 24, 373-382	422
713	Organic Photovoltaics: Technologies and Manufacturing. 2012,	8
712	Structural Design of Flexible Electric Devices on Polymer Substrates and Application to Organic FET. 2012 , 61, 783-786	
711	Solution-processible polymer solar cells fabricated on a papery substrate. 2012 , 6, 13-15	30
710	Spray pyrolysed In2S3 thin films: A potential electron selective layer for large area inverted bulk-heterojunction polymer solar cells. 2012 , 209, 199-203	6
709	Recent progress and future aspects of organic solar cells. 2012 , 20, 377-415	143
708	Effect of voltage sweep direction on the performance evaluation of P3HT : PCBM solar cells. 2012 , 21, n/a-n/a	3
7º7		3
	21, n/a-n/a Nanostructured Carbon and Polymer Materials- Synthesis and their Application in Energy	3 416
707	21, n/a-n/a Nanostructured Carbon and Polymer Materials- Synthesis and their Application in Energy Conversion Devices. 2012, 425-466	
7º7 7º6	21, n/a-n/a Nanostructured Carbon and Polymer Materials- Synthesis and their Application in Energy Conversion Devices. 2012, 425-466 Solar cells with one-day energy payback for the factories of the future. 2012, 5, 5117-5132 Effects of the Morphology of a ZnO Buffer Layer on the Photovoltaic Performance of Inverted	416
7°7 7°6 7°5	Nanostructured Carbon and Polymer Materials- Synthesis and their Application in Energy Conversion Devices. 2012, 425-466 Solar cells with one-day energy payback for the factories of the future. 2012, 5, 5117-5132 Effects of the Morphology of a ZnO Buffer Layer on the Photovoltaic Performance of Inverted Polymer Solar Cells. 2012, 22, 2194-2201	416 259
7°7 7°6 7°5 7°4	Nanostructured Carbon and Polymer Materials- Synthesis and their Application in Energy Conversion Devices. 2012, 425-466 Solar cells with one-day energy payback for the factories of the future. 2012, 5, 5117-5132 Effects of the Morphology of a ZnO Buffer Layer on the Photovoltaic Performance of Inverted Polymer Solar Cells. 2012, 22, 2194-2201 Efficient, large area ITO-and-PEDOT-free organic solar cell sub-modules. 2012, 24, 2572-7 Electrostatically self-assembled nonconjugated polyelectrolytes as an ideal interfacial layer for	416 259 134
7°7 7°6 7°5 7°4 7°3	Nanostructured Carbon and Polymer Materials- Synthesis and their Application in Energy Conversion Devices. 2012, 425-466 Solar cells with one-day energy payback for the factories of the future. 2012, 5, 5117-5132 Effects of the Morphology of a ZnO Buffer Layer on the Photovoltaic Performance of Inverted Polymer Solar Cells. 2012, 22, 2194-2201 Efficient, large area ITO-and-PEDOT-free organic solar cell sub-modules. 2012, 24, 2572-7 Electrostatically self-assembled nonconjugated polyelectrolytes as an ideal interfacial layer for inverted polymer solar cells. 2012, 24, 3005-9, 2938 New Low-Bandgap Materials with Good Stabilities and Efficiencies Comparable to P3HT in	416 259 134 252

699	Bulk heterojunction organic photovoltaic devices based on small molecules featuring pyrrole and carbazole and 2-(4-nitrophenyl)acrylonitrile acceptor segments as donor and fullerene derivatives as acceptor. 2012 , 94, 320-329		18
698	Roll-to-roll fabrication of polymer solar cells. 2012 , 15, 36-49		1105
697	Effects of the morphology of nanostructured ZnO films on the efficiency of dye-sensitized solar cells. 2012 , 41, 115-122		54
696	Effect of nanostructured ZnO cathode layer on the photovoltaic performance of inverted bulk heterojunction solar cells. 2012 , 43, 378-382		10
695	The surface treatment of Ti meshes for use in large-area flexible dye-sensitized solar cells. 2012 , 208, 197-202		27
694	Performance correlated with device layout and illumination area in solar cells based on polymer and aligned ZnO nanorods. 2012 , 86, 1459-1469		12
693	Self-assembled mesogens modified fullerene for efficiently stable bulk heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 34-42	6.4	13
692	Roll-to-roll processed polymer tandem solar cells partially processed from water. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 43-49	6.4	80
691	Simultaneous multilayer formation of the polymer solar cell stack using roll-to-roll double slot-die coating from water. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 22-27	6.4	81
690	Simple roll coater with variable coating and temperature control for printed polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 191-196	6.4	78
689	Fully visible-light-harvesting conjugated polymers with pendant donor-facceptor chromophores for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 50-58	6.4	16
688	Investigation of power loss and device efficiency using a three-dimensional finite element simulation on organic solar cell geometry. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 96, 66-70	6.4	3
687	Polymer bulk heterojunction photovoltaic devices based on complex donors and solution-processable functionalized graphene oxide. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 96, 58-65	6.4	24
686	The effect of a buffer layer on the performance and optimal encapsulation time of ITO/CuPc/C60/buffer/Cu bilayer cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 96, 50-57	6.4	15
685	Molecular structure of poly(3-alkyl-thiophenes) investigated by calorimetry and grazing incidence X-ray scattering. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 109-118	6.4	23
684	Multilayer graphene films as transparent electrodes for organic photovoltaic devices. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 96, 281-285	6.4	109
683	Optimal geometric design of monolithic thin-film solar modules: Architecture of polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 119-126	6.4	40
682	Improvement in the photovoltaic efficiency of polymer solar cells by treating the poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) buffer layer with co-solvents of hydrophilic organic solvents and hydrophobic 1,2-dichlorobenzene. <i>Solar Energy Materials and Solar</i>	6.4	59

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681	Spin coated carbon nanotubes as the hole transport layer in organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 96, 298-301	6.4	53
68o	Life cycle assessment of ITO-free flexible polymer solar cells prepared by roll-to-roll coating and printing. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 3-13	6.4	133
679	All-solution-processed ITO-free polymer solar cells fabricated on copper sheets. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 98, 168-171	6.4	17
678	Investigation of non-halogenated solvent mixtures for high throughput fabrication of polymerfullerene solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 96, 195-201	6.4	65
677	Edge sealing for low cost stability enhancement of roll-to-roll processed flexible polymer solar cell modules. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 157-163	6.4	80
676	Polymer solar cells using chlorinated indium tin oxide electrodes with high work function as the anode. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 96, 238-243	6.4	23
675	Research progress on polymer heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 98, 129-145	6.4	65
674	Application of optical coherence tomography (OCT) as a 3-dimensional imaging technique for roll-to-roll coated polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 181-185	6.4	28
673	Quality control of roll-to-roll processed polymer solar modules by complementary imaging methods. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 176-180	6.4	55
672	Interlayer adhesion in roll-to-roll processed flexible inverted polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 171-175	6.4	173
671	Novel solution processable small molecule containing new electron-withdrawing group and oligothiophene for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 98, 343-350	6.4	9
670	New series connection method for bulk-heterojunction polymer solar cell modules. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 98, 208-211	6.4	7
669	Dithienylcyclopentadienone derivative-co-benzothiadiazole: An alternating copolymer for organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 98, 448-454	6.4	15
668	Comparison of metal oxides as anode buffer layer for small molecule organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 98, 379-384	6.4	36
667	Anatase TiO2 and ITO co-sputtered films for an indium-saving multicomponent electrode in organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 98, 409-416	6.4	13
666	Ultrathin molybdenum oxide anode buffer layer for organic photovoltaic cells formed using atomic layer deposition. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 99, 235-239	6.4	78
665	Mechanism for dimethylformamide-treatment of poly(3,4-ethylenedioxythiophene): poly(styrene sulfonate) layer to enhance short circuit current of polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 100, 115-119	6.4	26
664	Durable polyisobutylene edge sealants for organic electronics and electrochemical devices. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 100, 120-125	6.4	25

663	The use of polyurethane as encapsulating method for polymer solar cellsAn inter laboratory study on outdoor stability in 8 countries. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 99, 292-300	6.4	34
662	Polymer- and carbon-based electrodes for polymer solar cells: Toward low-cost, continuous fabrication over large area. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 100, 97-114	6.4	114
661	Graded vertical phase separation of donor/acceptor species for polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 100, 147-152	6.4	32
660	A benzo[1,2-b:4,5-b?]dithiophene-based copolymer with deep HOMO level for efficient polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 100, 239-245	6.4	29
659	Poor man's green bulk heterojunction photocells: A chlorine-free solvent for poly(3-hexylthiophene)/C60 composites. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 100, 246-250	6.4	28
658	The design and realization of large-scale patterned organic solar cells in series and parallel configurations. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 101, 289-294	6.4	8
657	A correlation study between barrier film performance and shelf lifetime of encapsulated organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 101, 140-146	6.4	69
656	Enhancing current density using vertically oriented organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 101, 227-231	6.4	4
655	The role of non-solvent swelling in bulk hetero junction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 102, 196-200	6.4	9
654	Synthesis and characterization of a series of low-bandgap copolymers based on cyclopenta[2,1-b:3,4-b?]dithiophene and thienopyrroledione for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 102, 58-65	6.4	10
653	The future of organic photovoltaic solar cells as a direct power source for consumer electronics. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 103, 1-10	6.4	29
652	Indolinone-substituted methanofullerene new acceptor for organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 103, 48-52	6.4	14
651	Thermal-annealing-free inverted polymer solar cells using ZnO/Cs2CO3 bilayer as electron-selective layer. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 103, 164-170	6.4	47
650	A novel copolymer from benzodithiophene and alkylsulfanyl-bithiophene: Synthesis, characterization and application in polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 104, 45-52	6.4	24
649	Efficient bulk heterojunction photovoltaic devices based on diketopyrrolopyrrole containing small molecule as donor and modified PCBM derivatives as electron acceptors. 2012 , 13, 652-666		22
648	Efficient inverted polymer solar cells incorporating doped organic electron transporting layer. 2012 , 13, 697-704		40
647	Benzotriazole and benzothiadiazole containing conjugated copolymers for organic solar cell applications. 2012 , 53, 1198-1202		22
646	Enhanced performance of organic photovoltaic cells fabricated with a methyl thiophene-3-carboxylate-containing alternating conjugated copolymer. 2012 , 33, 146-51		15

645	Stability of polymer solar cells. 2012 , 24, 580-612		1149
644	Current Collecting Grids for ITO-Free Solar Cells. 2012 , 2, 103-110		106
643	On the Pinning of Downstream Meniscus for Slot Die Coating. 2013 , 32, E249-E257		10
642	Comparison of UV-Curing, Hotmelt, and Pressure Sensitive Adhesive as Roll-to-Roll Encapsulation Methods for Polymer Solar Cells. 2013 , 15, 1068-1075		77
641	Advanced Functional Polymers for Increasing the Stability of Organic Photovoltaics. 2013 , 214, 1546-15	58	22
640	Simultaneous improvement in efficiency and transmittance of low bandgap semitransparent polymer solar cells with one-dimensional photonic crystals. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 117, 198-202	6.4	28
639	Surface treatment patterning of organic photovoltaic films for low-cost modules. 2013 , 14, 430-435		17
638	Organic photovoltaic modules fabricated by an industrial gravure printing proofer. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 109, 47-55	6.4	97
637	Spray coated high-conductivity PEDOT:PSS transparent electrodes for stretchable and mechanically-robust organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 110, 98-106	6.4	146
636	Effects of surfactants on electrochemically prepared Ag nanostructures. 2013 , 138, 5920-5		2
635	Highly stable and flexible silver nanowire-graphene hybrid transparent conducting electrodes for emerging optoelectronic devices. <i>Nanoscale</i> , 2013 , 5, 7750-5	7.7	179
634	Simple experimental test to distinguish extraction and injection barriers at the electrodes of (organic) solar cells with S-shaped current loltage characteristics. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 117, 599-603	6.4	65
633	Side chain porphyrin moiety linked to polymer-fullerene composite solar cell. 2013 , 73, 1198-1206		20
632	Optimization and simplification of polymerfullerene solar cells through polymer and active layer design. 2013 , 54, 5267-5298		105
631	Thermal transport in organic semiconducting polymers. 2013 , 102, 251912		63
630	N,N?-diphenylperylene diimide functioning as a sensitizing light absorber based on excitation transfer for organic thin-film solar cells. 2013 , 14, 464-468		4
629	Transparent and flexible PEDOT:PSS electrodes passivated by thin IZTO film using plasma-damage free linear facing target sputtering for flexible organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 109, 192-198	6.4	22
628	Developing understanding of organic photovoltaic devices: kinetic Monte Carlo models of geminate and non-geminate recombination, charge transport and charge extraction. 2013 , 6, 3202		73

627	Life cycle analyses of organic photovoltaics: a review. 2013 , 6, 3136		155
626	Self-assembly of interfacial and photoactive layers via one-step solution processing for efficient inverted organic solar cells. <i>Nanoscale</i> , 2013 , 5, 11587-91	7.7	45
625	Efficient organometal trihalide perovskite planar-heterojunction solar cells on flexible polymer substrates. 2013 , 4, 2761		1371
624	Bulk heterojunction nanomorphology of fluorenyl hexa-peri-hexabenzocoronene-fullerene blend films. 2013 , 5, 11554-62		12
623	Side-Chain Engineering of Isoindigo-Containing Conjugated Polymers Using Polystyrene for High-Performance Bulk Heterojunction Solar Cells. 2013 , 25, 4874-4880		122
622	Electrical conduction and dielectric relaxation in p-type PVA/CuI polymer composite. 2013, 4, 531-8		62
621	Electrostatic Self-Assembled Metal Oxide/Conjugated Polyelectrolytes as Electron-Transporting Layers for Inverted Solar Cells with High Efficiency. 2013 , 117, 24804-24814		43
620	Anisotropic corellhell nanocomposites by direct covalent attachment of a side-functionalized poly(3-hexylthiophene) onto ZnO nanowires. 2013 , 54, 7004-7008		9
619	Efficient "light-soaking"-free inverted organic solar cells with aqueous solution processed low-temperature ZnO electron extraction layers. 2013 , 5, 13318-24		21
618	Multi-THz spectroscopy of mobile charge carriers in P3HT:PCBM on a sub-100 fs time scale. 2013 ,		2
617	Characterization of PVA/CuI polymer composites as electron donor for photovoltaic application. 2013 , 124, 1624-1631		27
616	The effect of controllable thin film crystal growth on the aggregation of a novel high panchromaticity squaraine viable for organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 112, 202-208	6.4	27
615	Molecular dynamics of solutions of poly-3-octyl-thiophene and functionalized single wall carbon nanotubes studied by neutron scattering. 2013 , 427, 129-141		4
614	Facile hot solvent vapor annealing for high performance polymer solar cell using spray process. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 114, 24-30	6.4	40
613	Freely available OPVThe fast way to progress. 2013, 1, 378-381		114
612	Conjugated polymer-based photonic nanostructures. 2013 , 4, 5181		36
611	Selection of metal substrates for completely solution-processed inverted organic photovoltaic devices. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 113, 179-185	6.4	15
610	Role of solution-processed V2O5 in P3HT:PCBM based inverted polymer solar cells. <i>Synthetic Metals</i> , 2013 , 170, 7-10	3.6	9

609	25th anniversary article: a decade of organic/polymeric photovoltaic research. 2013 , 25, 6642-71		978
608	Enhanced performance in inverted polymer solar cells with D-FA-type molecular dye incorporated on ZnO buffer layer. 2013 , 6, 1445-54		23
607	Work function engineering of ZnO electrodes by using p-type and n-type doped carbon nanotubes. 2013 , 24, 484013		10
606	Influence of up-side-down drying and thermal annealing treatment on performance of P3HT: PCBM-based solar cells. 2013 ,		1
605	Step-by-step build-up of ordered pl heterojunctions at nanoscale for efficient light harvesting. 2013 , 3, 166-171		14
604	23% enhanced efficiency of polymer solar cells processed with 1-chloronaphthalene as the solvent additive. <i>Synthetic Metals</i> , 2013 , 164, 1-5	3.6	30
603	Continuous Flow Synthesis of Organic Electronic Materials ICase Studies in Methodology Translation and Scale-up. 2013 , 66, 151		20
602	Determining the coating speed limitations for organic photovoltaic inks. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 109, 120-125	6.4	28
601	Roll-to-Roll fabrication of large area functional organic materials. 2013 , 51, 16-34		784
600	Hybrid Solar Cells with Polymer and Inorganic Nanocrystals. 2013 , 243-265		5
600 599	Hybrid Solar Cells with Polymer and Inorganic Nanocrystals. 2013, 243-265 Synthesis and photovoltaic properties from inverted geometry cells and roll-to-roll coated large area cells from dithienopyrrole-based donor Cceptor polymers. Journal of Materials Chemistry A, 2013, 1, 1785-1793	13	30
	Synthesis and photovoltaic properties from inverted geometry cells and roll-to-roll coated large area cells from dithienopyrrole-based donor ceptor polymers. <i>Journal of Materials Chemistry A</i> ,	13	
599	Synthesis and photovoltaic properties from inverted geometry cells and roll-to-roll coated large area cells from dithienopyrrole-based donor ceptor polymers. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1785-1793 Charge transport in polythiophene: fullerene: nanotube bulk heterojunction photovoltaic devices	13	30
599 598	Synthesis and photovoltaic properties from inverted geometry cells and roll-to-roll coated large area cells from dithienopyrrole-based donor\(\text{Bcceptor}\) polymers. Journal of Materials Chemistry A, 2013, 1, 1785-1793 Charge transport in polythiophene:fullerene:nanotube bulk heterojunction photovoltaic devices investigated by impedance spectroscopy. 2013, 13, 677-683 Study of the microstructure of inkjet-printed P3HT:PCBM blend for photovoltaic applications. 2013,	6.4	30
599 598 597	Synthesis and photovoltaic properties from inverted geometry cells and roll-to-roll coated large area cells from dithienopyrrole-based donor\(\text{Bcceptor polymers.} \) Journal of Materials Chemistry A, \(\text{2013}, 1, 1785-1793 \) Charge transport in polythiophene:fullerene:nanotube bulk heterojunction photovoltaic devices investigated by impedance spectroscopy. \(\text{2013}, 13, 677-683 \) Study of the microstructure of inkjet-printed P3HT:PCBM blend for photovoltaic applications. \(\text{2013}, 48, 2920-2927 \) High LUMO energy level C60(OCH3)4 derivatives: Electronic acceptors for photovoltaic cells with		30 14 19
599 598 597 596	Synthesis and photovoltaic properties from inverted geometry cells and roll-to-roll coated large area cells from dithienopyrrole-based donor\(\text{Bcceptor polymers.} \) Journal of Materials Chemistry A, 2013, 1, 1785-1793 Charge transport in polythiophene:fullerene:nanotube bulk heterojunction photovoltaic devices investigated by impedance spectroscopy. 2013, 13, 677-683 Study of the microstructure of inkjet-printed P3HT:PCBM blend for photovoltaic applications. 2013, 48, 2920-2927 High LUMO energy level C60(OCH3)4 derivatives: Electronic acceptors for photovoltaic cells with higher open-circuit voltage. Solar Energy Materials and Solar Cells, 2013, 111, 193-199 In situ reflectance imaging of organic thin film formation from solution deposition. Solar Energy	6.4	30 14 19
599 598 597 596	Synthesis and photovoltaic properties from inverted geometry cells and roll-to-roll coated large area cells from dithienopyrrole-based donor\(\text{GCPT}\) coated for polymers. Journal of Materials Chemistry A, 2013, 1, 1785-1793 Charge transport in polythiophene:fullerene:nanotube bulk heterojunction photovoltaic devices investigated by impedance spectroscopy. 2013, 13, 677-683 Study of the microstructure of inkjet-printed P3HT:PCBM blend for photovoltaic applications. 2013, 48, 2920-2927 High LUMO energy level C60(OCH3)4 derivatives: Electronic acceptors for photovoltaic cells with higher open-circuit voltage. Solar Energy Materials and Solar Cells, 2013, 111, 193-199 In situ reflectance imaging of organic thin film formation from solution deposition. Solar Energy Materials and Solar Cells, 2013, 114, 89-98 A round robin study of polymer solar cells and small modules across China. Solar Energy Materials	6.4	30 14 19 19

591	Modified processing conditions for optimized organic solar cells with inkjet printed P3HT:PC61BM active layers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013 , 178, 299-305	3.1	10
590	A new alcohol-soluble electron-transporting molecule for efficient inverted polymer solar cells. 2013 , 14, 2164-2171		8
589	Improved efficiency and stability of inverted polymer solar cells with a solution-processed BPhen interlayer and polystyrene beads. 2013 , 14, 2555-2563		17
588	Ubiquitous carrier harvesting in organic solar cells with embedded indium l in-oxide nano-electrodes. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 118, 102-108	6.4	3
587	Scalability and stability of very thin, roll-to-roll processed, large area, indium-tin-oxide free polymer solar cell modules. 2013 , 14, 984-994		122
586	Soft X-ray characterisation of organic semiconductor films. 2013 , 1, 187-201		67
585	Slot-die coating parameters of the low-viscosity bulk-heterojunction materials used for polymer solarcells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 112, 27-35	6.4	37
5 ⁸ 4	Effect of synthetic accessibility on the commercial viability of organic photovoltaics. 2013 , 6, 711		237
583	Investigating the Influence of Interfacial Contact Properties on Open Circuit Voltages in Organic Photovoltaic Performance: Work Function Versus Selectivity. 2013 , 3, 647-656		111
582	Retention of power conversion efficiencyfrom small area to large area polymer solar cells. 2013 , 25, 2193-9		31
581	Donor-acceptor small molecule with coplanar and rigid Ebridge for efficient organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 109, 33-39	6.4	20
580	Identifying the optimum composition in organic solar cells comprising non-fullerene electron acceptors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5989	13	23
579	Flexible ITO-free polymer solar cells. 2013 , 129, 1-14		145
578	All polymer photovoltaics: From small inverted devices to large roll-to-roll coated and printed solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 112, 157-162	6.4	76
577	Efficiency improvement of PCDTBT solar cells with silver nanoparticles. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 110, 58-62	6.4	23
576	Inkjet Printing of Back Electrodes for Inverted Polymer Solar Cells. 2013 , 3, 1230-1237		52
575	Optimizing the organic solar cell efficiency: Role of the active layer thickness. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 113, 100-105	6.4	53
574	Efficient work-function engineering of solution-processed MoS2 thin-films for novel hole and electron transport layers leading to high-performance polymer solar cells. 2013 , 1, 3777		144

(2013-2013)

573	Synthesis and characterization of conjugated polymers for the obtainment of conductive patterns through laser tracing. 2013 , 48, 3877-3893		5
57²	Two new self-assemblies of two zinc porphyrin with isonicotinic acid by metalligand axial coordination and their applications in supramolecular solar cell. 2013 , 54, 3851-3854		13
571	A patent landscape analysis for organic photovoltaic solar cells: Identifying the technology's development phase. 2013 , 57, 5-11		24
570	Module structure for an organic photovoltaic device. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 116, 219-223	6.4	3
569	Effect of UV light irradiation on photovoltaic characteristics of inverted polymer solar cells containing solgel zinc oxide electron collection layer. 2013 , 14, 649-656		34
568	Comparison of Fast Roll-to-Roll Flexographic, Inkjet, Flatbed, and Rotary Screen Printing of Metal Back Electrodes for Polymer Solar Cells. 2013 , 15, n/a-n/a		23
567	Enhanced Extraction Rates through Gap States of Molybdenum Oxide Anode Buffer. 2013 , 117, 9206-92	211	39
566	Brush painting of transparent PEDOT/Ag nanowire/PEDOT multilayer electrodes for flexible organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 114, 15-23	6.4	71
565	Low-temperature thermal nanoimprint lithography of anti-reflective structures for flexible low band gap organic solar cells. 2013 , 46, 105102		10
564	Green chemistry for organic solar cells. 2013 , 6, 2053		246
			216
563	Polymer solar cells with enhanced lifetime by improved electrode stability and sealing. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 117, 59-66	6.4	79
563	Polymer solar cells with enhanced lifetime by improved electrode stability and sealing. <i>Solar Energy</i>	6.4	
	Polymer solar cells with enhanced lifetime by improved electrode stability and sealing. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 117, 59-66 Comparison of large scale coating techniques for organic and hybrid films in polymer based solar	6.4	79
562	Polymer solar cells with enhanced lifetime by improved electrode stability and sealing. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 117, 59-66 Comparison of large scale coating techniques for organic and hybrid films in polymer based solar cells. 2013 , 68, 38-44 Tuning indium tin oxide work function with solution-processed alkali carbonate interfacial layers	6.4	79 70
562 561	Polymer solar cells with enhanced lifetime by improved electrode stability and sealing. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 117, 59-66 Comparison of large scale coating techniques for organic and hybrid films in polymer based solar cells. 2013 , 68, 38-44 Tuning indium tin oxide work function with solution-processed alkali carbonate interfacial layers for high-efficiency inverted organic photovoltaic cells. 2013 , 24, 484011 Rolling silver nanowire electrodes: simultaneously addressing adhesion, roughness, and	6.4	79 70 24
562 561 560	Polymer solar cells with enhanced lifetime by improved electrode stability and sealing. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 117, 59-66 Comparison of large scale coating techniques for organic and hybrid films in polymer based solar cells. 2013 , 68, 38-44 Tuning indium tin oxide work function with solution-processed alkali carbonate interfacial layers for high-efficiency inverted organic photovoltaic cells. 2013 , 24, 484011 Rolling silver nanowire electrodes: simultaneously addressing adhesion, roughness, and conductivity. 2013 , 5, 12663-71	6.4	79 7° 24 97
562561560559	Polymer solar cells with enhanced lifetime by improved electrode stability and sealing. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 117, 59-66 Comparison of large scale coating techniques for organic and hybrid films in polymer based solar cells. 2013 , 68, 38-44 Tuning indium tin oxide work function with solution-processed alkali carbonate interfacial layers for high-efficiency inverted organic photovoltaic cells. 2013 , 24, 484011 Rolling silver nanowire electrodes: simultaneously addressing adhesion, roughness, and conductivity. 2013 , 5, 12663-71 Organic solar cells (OSCs). 2013 , 473-507	6.4	79 70 24 97 6

555	Self-assembled monolayer as an interfacial modification material for highly efficient and air-stable inverted organic solar cells. 2013 , 102, 143303	42
554	Absorbing Visible Light Materials of Subphthalocyanine and C70for Efficient Planar-Mixed Organic Photovoltaic Devices. 2013 , 160, G14-G18	11
553	High-Speed Coating Method for Photovoltaic Textiles with Closed-Type Die Coater. 2013, 52, 060201	3
552	Electrospun Polymer-Fiber Solar Cell. 2013 , 2013, 1-6	13
551	Efficiency enhancement of organic photovoltaic devices using a Sm:Al compound electrode. 2013 , 102, 073301	5
550	Screening of Film-Formation Qualities of Various Solvent Systems for Econjugated Polymers Via Combinatorial Inkjet Printing. 2013 , 214, 547-555	7
549	Flexible and lightweight thermoelectric generators composed of carbon nanotubepolystyrene composites printed on film substrate. 2013 , 103, 153902	145
548	Rheological and Drying Considerations for Uniformly Gravure-Printed Layers: Towards Large-Area Flexible Organic Light-Emitting Diodes. 2013 , 23, 3164-3171	71
547	Screen-Display-Induced Photoresponse Mapping for Large-Area Photovoltaics. 2013 , 1, 770-775	3
546	Synthesis and Photovoltaic Properties of Polythiophene Incorporating with 3,4-Difluorothiophene Units. 2013 , 31, 1385-1390	5
545	Enhanced Performance of Organic Photovoltaic Cells by Incorporation of a Cyanobiphenyl Compound into Active Layer. 2013 , 586, 43-52	2
544	Development of Polymer Blend Solar Cells Composed of Conjugated Donor and Acceptor Polymers. 2013 , 26, 175-180	11
543	Towards Realizing High-Throughput, Roll-to-Roll Manufacturing of Flexible Electronic Systems. 2014 , 3, 624-635	22
542	The effect of grid shape on the properties of transparent conductive films based on flexographic printing. 2014 , 57, 2536-2541	7
541	ITO-free Anode with Plasmonic Silver Nanoparticles for High Efficient Polymer Solar Cells. 2014 , 60, 13-22	
540	Improved light trapping in polymer solar cells by light diffusion ink. 2014 , 47, 105102	3
539	All-Solution-Processed, Ambient Method for ITO-Free, Roll-Coated Tandem Polymer Solar Cells using Solution-Processed Metal Films. 2014 , 2, 651-659	24
538	Current voltage analysis of silver nanoparticle doped organic photovoltaic devices. 2014 ,	

537	Photoinduced degradation of organic solar cells with different microstructures. 2014 , 23, 088803		2
536	Printed pressure sensor array sheets fabricated using poly(amino acid)-based piezoelectric elements. 2014 , 53, 05HB15		11
535	Enhancing the Efficiency of Polymer Solar Cells by Modifying Buffer Layer with N,N-Dimethylacetamide. 2014 , 2014, 1-6		4
534	Nanoreactors or nanoscale stablizers: routes for solution processed indium tin oxide nanoparticles by reverse micelle deposition. 2014 , 92, 797-801		8
533	Patterning of OPV modules by ultra-fast laser. 2014,		
532	Silver nanoparticle piezoresistive sensors fabricated by roll-to-roll slot-die coating and laser direct writing. 2014 , 22, 8919-27		23
531	Improving charge transport property and energy transfer with carbon quantum dots in inverted polymer solar cells. 2014 , 105, 073306		35
530	Organic and Hybrid Solar Cells. 2014 ,		8
529	Optimisation of the material properties of indium tin oxide layers for use in organic photovoltaics. 2014 , 116, 103103		3
528	Semitransparent organic photovoltaic modules with Ag nanowire top electrodes. 2014,		1
527	The role of NaYF4nanoparticles in inverted polymer solar cells. 2014 ,		
526	Lateral control system for roll-to-roll fabrication process of organic photovoltaic. 2014 , 53, 05HC09		7
525	Perovskite Based Hybrid Solar Cells with Transparent Carbon Nanotube electrodes. 2014 , 1667, 20		2
524	Polymer Blends and Composites. 2014 , 173-195		1
523	Modeling and simulation of bulk heterojunction polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 127, 67-86	6.4	49
522	Understanding the chemical origin of improved thin-film device performance from photodoped ZnO nanoparticles. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 124, 211-216	6.4	19
521	Speed up dye-sensitized solar cell fabrication by rapid dye solution droplets bombardment. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 81-86	6.4	11
520	Inverted polymer solar cells with a low-temperature ramp annealed solgel derived aluminum-doped ZnO nano-ridge film as a cathode buffer layer. 2014 , 592, 96-102		2

519	Probing the annealing induced molecular ordering in bulk heterojunction polymer solar cells using in-situ Raman spectroscopy. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 526-535	4	26
518	2D Characterization of OPV from Single and Tandem Cells to Fully Roll-to-Roll Processed Modules with and without Electrical Contact. 2014 , 2, 465-477		37
517	A new architecture for printable photovoltaics overcoming conventional module limits. 2014 , 26, 1602-6		9
516	Roll-to-Roll Processing of Polymer Solar Cells. 2014 , 561-586		2
515	Effect of solvent on large-area polymerfullerene solar cells fabricated by a slot-die coating method. Solar Energy Materials and Solar Cells, 2014 , 126, 107-112	4	24
514	Enhancing the short-circuit current, efficiency of inverted organic solar cells using tetra sulfonic copper phthalocyanine (TS-CuPc) as electron transporting layer. 2014 , 15, 913-919		17
513	Improved charge transport in inverted polymer solar cells using surface engineered ZnO-nanorod array as an electron transport layer. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 125, 239-247	4	16
512	ITO-free organic solar cells with roll-to-roll coated organic functional layers from non-halogenated solvents. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 124, 92-97	4	34
511	Highly efficient top-illuminated flexible polymer solar cells with a nanopatterned 3D microresonant cavity. 2014 , 10, 1278-83		25
510	A study of the effects of drying and sintering on the performance of organic photovoltaic devices. Solar Energy Materials and Solar Cells, 2014 , 125, 72-77	4	3
509	Controlling J-aggregate formation for increased short-circuit current and power conversion efficiency with a squaraine donor. 2014 , 22, 488-493		28
508	Recent progress in degradation and stabilization of organic solar cells. 2014 , 264, 168-183		113
507	Optimized design for anti-reflection coating process in roll-to-roll slot-die coating system. 2014 , 30, 432-4	41	23
506	High-performance inverted solar cells based on blend films of ZnO Naoparticles and TiO(2) nanorods as a cathode buffer layer. 2014 , 6, 4074-80		17
505	EDOT-Based Copolymers with Pendant Anthraquinone Units: Analysis of Their Optoelectronic Properties within the Double-Cable Context. 2014 , 118, 9899-9910		2
504	Near infrared organic semiconducting materials for bulk heterojunction and dye-sensitized solar cells. 2014 , 14, 419-81		16
503	Open circuit voltage increase by substituted spacer and thieno[3,4-c]pyrrole-4,6-dione for polymer solar cells. 2014 , 20, 426-434		8
502	Highly efficient and high transmittance semitransparent polymer solar cells with one-dimensional photonic crystals as distributed Bragg reflectors. 2014 , 15, 470-477		39

501	Multiple stress degradation analysis of the active layer in organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 654-668	6.4	27
500	Solution structure: defining polymer film morphology and optoelectronic device performance. 2014 , 2, 71-77		18
499	A projection of commercial-scale organic photovoltaic module costs. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 9-17	6.4	96
498	Failure Modes and Fast Repair Procedures in High Voltage Organic Solar Cell Installations. 2014 , 4, 1301	625	19
497	From lab to fab: how must the polymer solar cell materials design change? Ian industrial perspective. 2014 , 7, 925		268
496	Surface plasmon assisted high performance top-illuminated polymer solar cells with nanostructured Ag rear electrodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2915	13	19
495	Neutral color semitransparent microstructured perovskite solar cells. 2014 , 8, 591-8		365
494	RETRACTED: Effect of thermal annealing on P3HT:PCBM bulk-heterojunction organic solar cells: A critical review. 2014 , 30, 324-336		53
493	Synthesis, characterization, and optical properties of poly[2-(4-(2,2?-bithiophen-5-yl)phenyl)-4-(4-alkoxyphenyl)-6-phenylpyridine]s. 2014 , 17, 401-415		5
492	Simultaneous enhancement in both large-area coatability and photovoltaic performance of inverted organic solar cells with co-solvent. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 197-203	6.4	11
491	ITO-free laminated concept for flexible organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 449-453	6.4	19
490	Upscaling from single cells to modules [fabrication of vacuum- and ITO-free polymer solar cells on flexible substrates with long lifetime. 2014 , 2, 1290-1297		88
489	Full-solution processed flexible organic solar cells using low-cost printable copper electrodes. 2014 , 26, 7271-8		59
488	Interfacial degradation effects of aqueous solution-processed molybdenum trioxides on the stability of organic solar cells evaluated by a differential method. 2014 , 105, 113301		19
487	Highly flexible and transparent conducting silver nanowire/ZnO composite film for organic solar cells. 2014 , 7, 1370-1379		88
486	Roll-to-roll compatible organic thin film transistor manufacturing technique by printing, lamination, and laser ablation. 2014 , 571, 212-217		17
485	Solution-processed silver nanowires as a transparent conducting electrode for air-stable inverted organic solar cells. 2014 , 573, 14-17		13
484	Facile synthesis of well-ordered manganese oxide nanosheet arrays on carbon cloth for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8833	13	66

483	Nanostructured hybrid ZnO@CdS nanowalls grown in situ for inverted polymer solar cells. 2014 , 2, 1018-102	7 47
482	Flexible silver grid/PEDOT:PSS hybrid electrodes for large area inverted polymer solar cells. 2014 , 10, 259-267	103
481	Elucidating the nanoscale origins of organic electronic function by conductive atomic force microscopy. 2014 , 2, 3118-3128	40
480	Low-cost Nanomaterials. 2014 ,	11
479	Progress in flexible dye solar cell materials, processes and devices. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10788-10817	121
478	Efficiency enhancement of inverted organic solar cells by introducing PFDTBT quantum dots into PCDTBT:PC71BM active layer. 2014 , 15, 2632-2638	13
477	The influence of additives on the morphology and stability of roll-to-roll processed polymer solar cells studied through ex situ and in situ X-ray scattering. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18644 $^{-1}$?86	54 ³²
476	Roll-coating fabrication of flexible large area small molecule solar cells with power conversion efficiency exceeding 1%. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19809-19814	40
475	Inverted polymer solar cells with Nafion□ as the hole extraction layer: efficiency and lifetime studies. 2014 , 25, 014018	8
474	The light trapping enhancement of inverted polymer solar cells by introducing NaYF4 nanoparticles. <i>Synthetic Metals</i> , 2014 , 195, 117-121	7
473	Critical Electron Transfer Rates for Exciton Dissociation Governed by Extent of Crystallinity in Small Molecule Organic Photovoltaics. 2014 , 118, 14840-14847	20
472	High precision processing of flexible P3HT/PCBM modules with geometric fill factor over 95%. 2014 , 15, 2256-2263	58
471	. 2014,	1
470	Light trapping in a polymer solar cell by tailored quantum dot emission. 2014 , 22 Suppl 2, A259-67	8
469	The Preparation of Higher Ordered Poly(3-hexylthiophene) by Oxidative Method. 2014 , 1004-1005, 272-276	
468	Synthesis and properties of low bandgap star molecules TPA-[DTS-PyBTTh3]3 and DMM-TPA[DTS-PyBTTh3]3 for solution-processed bulk heterojunction organic solar cells. 2014 , 2, 8412-8422	19
467	Flexible polymer solar cell modules with patterned vanadium suboxide layers deposited by an electro-spray printing method. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 130, 555-560	15
466	Performance improvement of large-area roll-to-roll slot-die-coated inverted polymer solar cell by tailoring electron transport layer. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 130, 191-198	29

465	Optimization of Microtextured Light-Management Films for Enhanced Light Trapping in Organic Solar Cells Under Perpendicular and Oblique Illumination Conditions. 2014 , 4, 639-646		18
464	Promising long-term stability of encapsulated ITO-free bulk-heterojunction organic solar cells under different aging conditions. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 130, 144-150	6.4	49
463	Effect of alkyl chain length on the photovoltaic performance of oligothiophene-based small molecules. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 130, 336-346	6.4	16
462	Optimisation of the solgel derived ZnO buffer layer for inverted structure bulk heterojunction organic solar cells using a low band gap polymer. 2014 , 566, 99-107		25
461	Flexible organic tandem solar modules with 6% efficiency: combining roll-to-roll compatible processing with high geometric fill factors. 2014 , 7, 3284-3290		69
460	Flexible ITO-free polymer solar cells based on highly conductive PEDOT:PSS and a printed silver grid. Solar Energy Materials and Solar Cells, 2014 , 130, 551-554	6.4	34
459	Determination of energy levels at the interface between O2 plasma treated ITO/P3HT: PCBM and PEDOT: PSS/P3HT: PCBM using angular-resolved x-ray and ultraviolet photoelectron spectroscopy. 2014 , 47, 055109		14
458	Indium Tin Oxide-Free Polymer Solar Cells: Toward Commercial Reality. 2014 , 189-225		2
457	Solution-processed silver opaque electrode for organic solar devices. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 126, 192-196	6.4	3
456	Low temperature fabrication of high performance p-n junction on the Ti foil for use in large-area flexible dye-sensitized solar cells. 2014 , 117, 1-8		12
455	Performance enhancement of inverted polymer solar cells with fullerene ester derivant-modified ZnO film as cathode buffer layer. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 126, 36-41	6.4	27
454	Morphological and spectroscopic characterizations of inkjet-printed poly(3-hexylthiophene-2,5-diyl): Phenyl-C61-butyric acid methyl ester blends for organic solar cell applications. 2014 , 560, 14-19		12
453	Lessons learned: from dye-sensitized solar cells to all-solid-state hybrid devices. 2014 , 26, 4013-30		133
452	Multi-film roll transferring (MRT) process using highly conductive and solution-processed silver solution for fully solution-processed polymer solar cells. 2014 , 7, 2764-2770		21
451	Cost analysis of roll-to-roll fabricated ITO free single and tandem organic solar modules based on data from manufacture. 2014 , 7, 2792		151
450	The effect of thiophene substituents of fulleropyrrolidine acceptors on the performance of inverted organic solar cells. <i>Synthetic Metals</i> , 2014 , 195, 193-200	3.6	7
449	In situ syntheses of semiconducting nanoparticles in conjugated polymer matrices and their application in photovoltaics 2014 , 1,		3
448	. 2014,		

447	Solution processing of back electrodes for organic solar cells with inverted architecture. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 130, 163-169	6.4	21
446	Photoelectrochemical and Electrochemical Characterization of Sub-Micro-Gram Amounts of Organic Semiconductors Using Scanning Droplet Cell Microscopy. 2014 , 118, 16919-16926		9
445	Organic photovoltaic with PEDOT:PSS and V2O5 mixture as hole transport layer. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 238-243	6.4	48
444	High-density organic photovoltaic modules: Mask-free fabrication using nozzle jet printing and oblique deposition. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 561-565	6.4	7
443	The formation of interfacial wrinkles at the metal contacts on organic thin films. 2014 , 556, 294-299		6
442	Non-destructive optical characterization of phase separation in bulk heterojunction organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 125, 190-197	6.4	10
441	Characteristics and evaluation criteria of substrate-based manufacturing. Is roll-to-roll the best solution for printed electronics?. 2014 , 15, 1631-1640		40
440	Efficiency enhancement of inverted polymer solar cells by doping NaYF4:Yb3+, Er3+ nanocomposites in PCDTBT:PCBM active layer. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 124, 126-13	32 ^{6.4}	25
439	Monte Carlo Simulation of Geminate Pair Recombination Dynamics in Organic Photovoltaic Devices: Multi-Exponential, Field-Dependent Kinetics and Its Interpretation. 2014 , 118, 85-91		16
438	Best of Both Worlds: Conjugated Polymers Exhibiting Good Photovoltaic Behavior and High Tensile Elasticity. 2014 , 47, 1981-1992		121
437	Effect of Incorporation of Squaraine Dye on the Photovoltaic Response of Bulk Heterojunction Solar Cells Based on P3HT:PC70BM Blend. 2014 , 2, 1743-1751		24
436	Design Guidelines for Efficient Eutectic Soldering Onto Low Tg Polymeric Multimode Light Waveguides. 2014 , 15, 168-177		2
436			20
	Waveguides. 2014 , 15, 168-177 Roll-to-roll printing and coating techniques for manufacturing large-area flexible organic		
435	Waveguides. 2014, 15, 168-177 Roll-to-roll printing and coating techniques for manufacturing large-area flexible organic electronics. 2015, 171-197		20
435	Waveguides. 2014, 15, 168-177 Roll-to-roll printing and coating techniques for manufacturing large-area flexible organic electronics. 2015, 171-197 High speed low power optical detection of sub-wavelength scatterer. 2015, 86, 123111 Effect of alkyl side-chain length on the photophysical, morphology and photoresponse properties		20
435 434 433	Roll-to-roll printing and coating techniques for manufacturing large-area flexible organic electronics. 2015, 171-197 High speed low power optical detection of sub-wavelength scatterer. 2015, 86, 123111 Effect of alkyl side-chain length on the photophysical, morphology and photoresponse properties of poly(3-alkylthiophene). 2015, 48, 485501 Upscaling of Perovskite Solar Cells: Fully Ambient Roll Processing of Flexible Perovskite Solar Cells		2055

429	Roll-to-Roll Slot D ie Coated Organic Photovoltaic (OPV) Modules with High Geometrical Fill Factors. 2015 , 3, 834-842	42
428	Stability of inverted organic solar cells with low-temperature ZnO buffer layer processed from aqueous solution. 2015 , 212, 2262-2270	6
427	Supramolecular Approaches to Nanoscale Morphological Control in Organic Solar Cells. 2015 , 16, 13381-406	22
426	PV glazing technologies. 2015 , 49, 306-322	114
425	Syntheses and solar cell applications of conjugated copolymers consisting of 3,3?-dicarboximide and benzodithiophene units with thiophene and bithiophene linkage. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 141, 24-31	3
424	Versatility and robustness of ZnO:Cs electron transporting layer for printable organic solar cells. 2015 , 5, 49369-49375	9
423	Influence of annealing treatments on solution-processed ZnO film deposited on ITO substrate as electron transport layer for inverted polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 141, 210-217	30
422	Efficient inverted polymer solar cells integrated with a compound electron extraction layer. 2015 , 356, 541-545	5
421	Influence of Intermixed Donor and Acceptor Domains on the Ultrafast Charge Generation in Bulk Heterojunction Materials. 2015 , 119, 26889-26894	19
420	ITO-free large-area flexible organic solar cells with an embedded metal grid. 2015 , 17, 349-354	41
419	Technologies for Printing Sensors and Electronics Over Large Flexible Substrates: A Review. 2015 , 15, 3164-3185	722
418	Scale-up of oCVD: large-area conductive polymer thin films for next-generation electronics. 2015 , 2, 221-227	54
417	Electrochemical copolymerization of 3,4-ethylenedioxythiophene and 6-cyanoindole and its electrochromic property. 2015 , 50, 1836-1847	16
416	Development of Lab-to-Fab Production Equipment Across Several Length Scales for Printed Energy Technologies, Including Solar Cells. 2015 , 3, 293-304	59
415	Enhanced performance using an SU-8 dielectric interlayer in a bulk heterojunction organic solar cell. 2015 , 7, 5219-25	9
414	An indium tin oxide-free polymer solar cell on flexible glass. 2015 , 7, 4541-8	49
413	Recent progress and perspective in solution-processed Interfacial materials for efficient and stable polymer and organometal perovskite solar cells. 2015 , 8, 1160-1189	637
412	Methods for improving the lifetime performance of organic photovoltaics with low-costing encapsulation. 2015 , 16, 1134-54	59

411	Advances in 2D/3D Printing of Functional Nanomaterials and Their Applications. <i>ECS Journal of Solid State Science and Technology</i> , 2015 , 4, P3001-P3009	20
410	Fabrication, performance and atmospheric stability of inverted ZnO nanoparticle/polymer solar cell. 2015 , 118, 75-81	7
409	Synthesis of two-dimensional Etonjugated polymers pendent with benzothiadiazole and naphtho[1,2-c:5,6-c]bis[1,2,5]thiadiazole moieties for polymer solar cells. 2015 , 58, 257-266	28
408	NiO/MAPbI(3-x)Clx/PCBM: a model case for an improved understanding of inverted mesoscopic solar cells. 2015 , 7, 4283-9	52
407	Synthesis and optical properties of photovoltaic materials based on the ambipolar dithienonaphthothiadiazole unit. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4229-4238	10
406	Organic photovoltaic cells: from performance improvement to manufacturing processes. 2015 , 11, 2228-46	57
405	Benzodithiophene-thiophene-based photovoltaic polymers with different side-chains. 2015 , 53, 854-862	13
404	Correlation of structure and photovoltaic performance of benzo[1,2-b:4,5-b?]dithiophene copolymers alternating with different acceptors. 2015 , 39, 2248-2255	14
403	Plasmonically sensitized metal-oxide electron extraction layers for organic solar cells. 2015 , 5, 7765	37
402	Probing individal subcells of fully printed and coated polymer tandem solar cells using multichromatic opto-electronic characterization methods. <i>Solar Energy Materials and Solar Cells</i> , 6.4 2015 , 137, 154-163	12
401	High efficiency inverted polymer solar cells with solution-processed ZnO buffer layer. 2015 , 73, 550-556	13
400	Register control algorithm for high resolution multilayer printing in the roll-to-roll process. 2015 , 60-61, 706-714	32
399	Optically monitored spray coating system for the controlled deposition of the photoactive layer in organic solar cells. 2015 , 106, 033302	16
398	Graphene-Based Integrated Photovoltaic Energy Harvesting/Storage Device. 2015 , 11, 2929-37	76
397	Radially polarized light for detection and nanolocalization of dielectric particles on a planar substrate. 2015 , 114, 103903	51
396	Decreased domain size and improved crystallinity by adjusting solventpolymer interaction parameters in all-polymer solar cells. 2015 , 53, 288-296	11
395	Flexo printed sol-gel derived vanadium oxide films as an interfacial hole-transporting layer for organic solar cells. 2015 ,	2
394	The effect of shear-thickening on liquid transfer from an idealized gravure cell. 2015 , 221, 55-65	16

(2015-2015)

393	Roll-to-roll compatible flexible polymer solar cells incorporating a water-based solution-processable silver back electrode with low annealing temperature. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 143, 227-235	19
392	Improved performances of CuPc/C60-based solar cell by using randomly and irregularly embossed PEDOT:PSS as anode buffer layer. 2015 , 346, 188-193	4
391	Synthesis, characterization, and optical properties of new pyridine- and thiophene-based copolymer bearing bulky naphthyl group. <i>Polymer Bulletin</i> , 2015 , 72, 2979-2990	
390	Semitransparent polymer solar cells with simultaneously improved efficiency and color rendering index. 2015 , 17, 23732-40	32
389	Efficiency enhancement of organic photovoltaic modules prepared via wash processing. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 143, 58-62	1
388	Syntheses and solar cell applications of conjugated copolymers containing tetrafluorophenylene units. 2015 , 71, 113-121	5
387	Thin-film encapsulation of the air-sensitive organic-based ferrimagnet vanadium tetracyanoethylene. 2015 , 106, 122403	12
386	The effects of fluorine-contained molecules on improving the polymer solar cell by curing the anomalous S-shaped I-V curve. 2015 , 7, 6683-9	3
385	Roll and roll-to-roll process scaling through development of a compact flexo unit for printing of back electrodes. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 140, 187-192	26
384	Solar cells for self-sustainable intelligent packaging. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13226-13236	23
383	Guidelines for Closing the Efficiency Gap between Hero Solar Cells and Roll-To-Roll Printed Modules. 2015 , 3, 373-384	78
382	Comparison of distributed vs. lumped series resistance modeling of thin-film solar cells and modules: Influence on the geometry-dependent efficiency. 2015 , 212, 1991-2000	14
381	Nanowire Interconnects for Printed Large-Area Semitransparent Organic Photovoltaic Modules. 2015 , 5, 1401779	44
380	R2R-printed inverted OPV modulestowards arbitrary patterned designs. <i>Nanoscale</i> , 2015 , 7, 9570-80 7.7	54
379	A facile method for enhancing photovoltaic performance of low-band-gap DA conjugated polymer for OPVs by controlling the chemical structure. 2015 , 26, 173-181	7
378	Unraveling the effect of polymer dots doping in inverted low bandgap organic solar cells. 2015 , 17, 16086-91	6
377	Improvement of cross-machine directional thickness deviation for uniform pressure-sensitive adhesive layer in roll-to-roll slot-die coating process. 2015 , 16, 937-943	22
376	Equivalent Circuit Modeling for a High-Performance Large-Area Organic Photovoltaic Module. 2015 , 5, 1100-1105	5

375	In situ studies of the molecular packing dynamics of bulk-heterojunction solar cells induced by the processing additive 1-chloronaphthalene. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7719-7726	13	23
374	Enhancing Thermal Stability and Lifetime of Solid-State Dye-Sensitized Solar Cells via Molecular Engineering of the Hole-Transporting Material Spiro-OMeTAD. 2015 , 7, 11107-16		229
373	Towards low cost materials and methods for transparent electrodes. 2015 , 8, 60-68		57
372	Solution stability of active materials for organic photovoltaics. 2015 , 113, 181-188		10
371	Unraveling the Role of Substrates on Interface Energetics and Morphology of PCDTBT:PC70BM Bulk Heterojunction. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500095	4.6	7
370	Inkjet printing the three organic functional layers of two-colored organic light emitting diodes. 2015 , 583, 194-200		27
369	ZnO cathode buffer layers for inverted polymer solar cells. 2015 , 8, 3442-3476		222
368	Donor/Acceptor Molecular Orientation-Dependent Photovoltaic Performance in All-Polymer Solar Cells. 2015 , 7, 25352-61		72
367	Comparison of degradation mechanisms in organic photovoltaic devices upon exposure to a temperate and a subequatorial climate. 2015 , 640, 201-214		58
366	The role of photonics in energy. 2015 , 5, 050997		11
365	Photoactive area modification in bulk heterojunction organic solar cells using optimization of electrochemically synthesized ZnO nanorods. 2015 , 24, 117203		6
364	Tuning hole charge collection efficiency in polymer photovoltaics by optimizing the work function of indium tin oxide electrodes with solution-processed LiF nanoparticles. 2015 , 26, 9205-9212		3
363	Fast printing and in situ morphology observation of organic photovoltaics using slot-die coating. 2015 , 27, 886-91		99
362	An efficient photovoltaic device based on novel DAD solution-processable small molecules. 2015 , 50, 937-947		10
361	Predicting current from cross section images of organic photovoltaic devices. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 134, 231-235	6.4	2
360	Determining the photocurrent of individual cells within an organic solar module by LBIC and the filtering approach: Experiments and simulations. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 134, 157-	164 ⁴	7
359	Addressing the light-soaking issue in inverted organic solar cells using chemical bath deposited fluorinated TiOx electron transport layer. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 314-322	13	34
358	Visually tolerable tiling (VTT) for making a large-area flexible patterned surface. 2015 , 2, 86-90		17

357	A hybrid copper:tungsten suboxide window electrode for organic photovoltaics. 2015 , 27, 326-31		27
356	Highly stable inverted organic photovoltaics using aluminum-doped zinc oxide as electron transport layers. 2015 , 275, 274-278		18
355	ITO-free highly bendable and efficient organic solar cells with Ag nanomesh/ZnO hybrid electrodes. Journal of Materials Chemistry A, 2015, 3, 65-70	,	47
354	Influence of moisture out-gassing from encapsulant materials on the lifetime of organic solar cells. Solar Energy Materials and Solar Cells, 2015 , 132, 485-491	4	38
353	. 2016 ,		60
352	Thin Films for Advanced Glazing Applications. 2016 , 6, 37		23
351	Heterogeneity in the solar-powered consumer electronics market: A discrete choice experiments study. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 156, 140-146	4	5
350	Bulk-Heterojunction Organic Solar Cells: Five Core Technologies for Their Commercialization. 2016 , 28, 7821-7861		317
349	A review of the operating limits in slot die coating processes. 2016 , 62, 2508-2524		108
348	Crosslinkable Amino-Functionalized Conjugated Polymer as Cathode Interlayer for Efficient Inverted Polymer Solar Cells. 2016 , 6, 1502563		51
347	Slot-Die-Coated V2O5 as Hole Transport Layer for Flexible Organic Solar Cells and Optoelectronic Devices . 2016 , 18, 1494-1503		24
346	Optimization and performance analysis of PCBM acceptor-based bulk heterojunction organic solar cells using different donor materials. 2016 ,		O
345	Register mark measurement errors in high-precision roll-to-roll continuous systems: The effect of register mark geometry on measurement error. 2016 , 109, 141602		10
344	Impedance spectroscopy analysis of the photophysical dynamics due to the nanostructuring of anode interlayers in organic photovoltaics. 2016 , 213, 3165-3177		8
343	High fidelity 3D thermal nanoimprint with UV curable polydimethyl siloxane stamps. 2016 , 34, 06K401		17
342	High performance indium tin oxide-free solution-processed organic light emitting diodes based on inkjet-printed fine silver grid lines. 2016 , 1, 035004		19
341	Solution-processed tBu4-ZnPc:C61bulk heterojunction organic photovoltaic cells. 2016 , 55, 032301		3
340	Flexible polymer solar cells sub-modules using different cells dimension. 2016,		

339	Research Update: Large-area deposition, coating, printing, and processing techniques for the upscaling of perovskite solar cell technology. 2016 , 4, 091508		150
338	Ultrathin high-resolution flexographic printing using nanoporous stamps. 2016 , 2, e1601660		67
337	Improving the efficiency of inverted organic solar cells by introducing ferrocenedicarboxylic acid between an ITO/ZnO interlayer. 2016 , 6, 32000-32006		1
336	Polymeric materials for long-term durability of photovoltaic systems. 2016 , 133, n/a-n/a		31
335	Direct Uniaxial Alignment of a Donor-Acceptor Semiconducting Polymer Using Single-Step Solution Shearing. 2016 , 8, 9285-96		71
334	Improvement of Charge Collection and Performance Reproducibility in Inverted Organic Solar Cells by Suppression of ZnO Subgap States. 2016 , 8, 14717-24		42
333	Nanostructured Cathode Buffer Layers for Inverted Polymer Solar Cells. 2016 , 95-158		
332	High conductive PEDOT via post-treatment by halobenzoic for high-efficiency ITO-free and transporting layer-free organic solar cells. 2016 , 33, 316-323		15
331	Photo-Rechargeable Electric Energy Storage Systems. 2016 , 6, 1500369		115
330	Improved performances of inkjet-printed poly(3-hexylthiophene) organic thin-film transistors by inserting an ionic self-assembled monolayer. 2016 , 6, 40970-40974		15
329	A stability study of roll-to-roll processed organic photovoltaic modules containing a polymeric electron-selective layer. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 152, 133-140	6.4	13
328	Roll-to-Roll Coating Technology and Its Applications: A Review. 2016 , 17, 537-550		55
327	Development of a High-Performance Donor Acceptor Conjugated Polymer: Synergy in Materials and Device Optimization. 2016 , 28, 3481-3487		32
326	Printed photonic elements: nanoimprinting and beyond. 2016 , 4, 5133-5153		58
325	Life-cycle assessment of cradle-to-grave opportunities and environmental impacts of organic photovoltaic solar panels compared to conventional technologies. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 156, 37-48	6.4	42
324	Laser patterning of vacuum processed small molecular weight organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 154, 35-41	6.4	7
323	Highly efficient polymer solar cells with printed photoactive layer: rational process transfer from spin-coating. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16036-16046	13	50
322	A Systematic Investigation of Permeation Barriers for Flexible Dye-Sensitized Solar Cells. 2016 , 4, 1455-	1462	9

(2016-2016)

321	Two self-assembled supramolecular solar cells sensitized via axial coordination with zinc porphyrin. 2016 , 69, 3148-3157		8
320	High-rate roll-to-roll stack and lamination of multilayer structured membrane electrode assembly. 2016 , 23, 175-182		17
319	Progress, challenges and perspectives in flexible perovskite solar cells. 2016 , 9, 3007-3035		278
318	Photoluminescence quenching of poly(octylfluorenylbenzothiadiazole) luminophore by n-type cobalt(II) salicylaldimine metallodendrimer. <i>Synthetic Metals</i> , 2016 , 220, 114-122	3.6	2
317	Encapsulation for long-term stability enhancement of perovskite solar cells. 2016, 30, 162-172		200
316	Influence of Surface Energy on Organic Alloy Formation in Ternary Blend Solar Cells Based on Two Donor Polymers. 2016 , 8, 27931-27941		35
315	Optimization of printing conditions for microscale multiline printing in continuous roll-to-roll gravure printing. 2016 , 42, 131-141		24
314	Simple Bar-Coating Process for Fabrication of Flexible Top-Illuminated Polymer Solar Cells on Metallic Substrate. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600128	6.8	2
313	Flexible ultraviolet photodetectors with ZnO nanowire networks fabricated by large area controlled roll-to-roll processing. 2016 , 4, 7948-7958		30
312	Chemical Vapor Deposited Graphene-Based Derivative As High-Performance Hole Transport Material for Organic Photovoltaics. 2016 , 8, 23844-53		23
311	Comparison of biodegradable substrates for printed organic electronic devices. 2016 , 23, 3809-3817		20
310	Efficient up-scaling of organic solar cells. Solar Energy Materials and Solar Cells, 2016, 157, 960-965	6.4	15
309	Efficient, monolithic large area organohalide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13830-13836	13	41
308	Fabrication and characterization of highly transparent and conductive indium tin oxide films made with different solution-based methods. 2016 , 3, 116408		18
307	Universal Compact Model for Organic Solar Cell. 2016 , 63, 4053-4059		4
306	Printed light-trapping nanorelief Cu electrodes for full-solution-processed flexible organic solar cells. 2016 , 3, 074006		2
305	Printed Organic Thin Film Solar Cells. 2016 , 201-250		1
304	How to Prevent Degradation in Organic Solar Cells. 2016 , 243-267		

303 Roll-to-Roll Organic Solar Cells. **2016**, 269-285

302	Cost Analysis, Technological Impact, Challenges, and Outlook. 2016 , 287-299	
301	Bibliography. 2016 , 269-288	
300	Polymers for application in organic solar cells: Bithiophene can work better than thienothiophene when coupled to benzodithiophene. 2016 , 54, 1603-1614	5
299	Low temperature thermal engineering of nanoparticle ink for flexible electronics applications. 2016 , 31, 073003	23
298	In situ X-ray scattering of perovskite solar cell active layers roll-to-roll coated on flexible substrates. 2016 , 18, 5083-5088	19
297	Grazing incidence resonant soft X-ray scattering for analysis of multi-component polymer-fullerene blend thin films. 2016 , 105, 357-367	17
296	Synthesis and properties of novel polymers based on PD electron-withdrawing unit. 2016 , 34, 34-43	1
295	Electronic and photophysical properties of the bend DTATD derivatives for small-molecule organic photovoltaic (SM-OPV) solar cells: a DFT and TD-DFT investigation. 2016 , 42, 6907-6927	5
294	The future costs of OPV IA bottom-up model of material and manufacturing costs with uncertainty analysis. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 156, 49-58	55
293	Thin films of copper indium selenide fabricated with high atom economy by electrophoretic deposition of nanocrystals under flow. 2016 , 154, 128-135	5
292	Characterization of polymer bulk heterojunction photocell with unmodified C 70 prepared with halogen-free solvent for indoor light harvesting. 2016 , 30, 289-295	17
291	Highly efficient, large area, roll coated flexible and rigid OPV modules with geometric fill factors up to 98.5% processed with commercially available materials. 2016 , 9, 89-94	120
290	Progress in emerging solution-processed thin film solar cells Part I: Polymer solar cells. 2016 , 56, 347-361	102
289	Alcohol-soluble interfacial fluorenes for inverted polymer solar cells: sequence induced spatial conformation dipole moment. 2016 , 18, 2219-29	7
288	Materials and Deposition Processes for Multifunctionality. 2016 , 19-51	5
287	Bulk-heterojunction polymer solar cells with polyaniline-silica nanocomposites as an efficient hole-collecting layer. 2016 , 10, 016011	3
286	High performance inverted polymer solar cells with solution processed metal oxides as electron transport layers: A comparative study. 2016 , 617, 126-132	6

285	Syntheses, Charge Separation, and Inverted Bulk Heterojunction Solar Cell Application of Phenothiazine-Fullerene Dyads. 2016 , 8, 8481-90		39
284	Enhanced Electron Extraction Capability of Polymer Solar Cells via Employing Electrostatically Self-Assembled Molecule on Cathode Interfacial Layer. 2016 , 8, 8224-31		28
283	Solution processed reduced graphene oxide electrodes for organic photovoltaics. 2016 , 1, 375-382		40
282	Relating Molecular Morphology to Charge Mobility in Semicrystalline Conjugated Polymers. 2016 , 120, 4240-4250		44
281	Current Challenges and Prospective Research for Upscaling Hybrid Perovskite Photovoltaics. 2016 , 7, 811-9		165
280	Rapid composition screening for perovskite photovoltaics via concurrently pumped ultrasonic spray coating. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3792-3797	13	111
279	Reverse gravure coating for roll-to-roll production of organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 149, 154-161	6.4	37
278	Fully gravure printed organic photovoltaic modules: A straightforward process with a high potential for large scale production. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 144, 724-731	6.4	62
277	Stability of perovskite solar cells. Solar Energy Materials and Solar Cells, 2016, 147, 255-275	6.4	541
276	A series connection architecture for large-area organic photovoltaic modules with a 7.5% module efficiency. 2016 , 7, 10279		86
275	Electrical properties of patterned photoactive layers in organic photovoltaic modules. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 144, 493-499	6.4	7
274	Combining Printing, Coating, and Vacuum Deposition on the Roll-to-Roll Scale: A Hybrid Organic Photovoltaics Fabrication. 2016 , 22, 112-125		29
273	Self-assembly of mesoporous ZnCo2O4 nanomaterials: density functional theory calculation and flexible all-solid-state energy storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 568-577	13	53
272	Organic Photovoltaics. 2016 , 169-196		4
271	Luminescent Sr2CeO4 nanocrystals for applications in organic solar cells with conjugated polymers. 2016 , 169, 857-861		7
270	Highly flexible, transparent, conductive and antibacterial films made of spin-coated silver nanowires and a protective ZnO layer. 2016 , 76, 88-94		34
269	A study for degradation of flexible organic photovoltaic modules via damp-heat test: By accessing individual layers of the module. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 144, 187-193	6.4	12
268	Review on penetration and transport phenomena in porous media during slot die coating. 2017 , 55, 16	69-168	06

267	Effect of irradiance, temperature exposure and an Arrhenius approach to estimating weathering acceleration factor of Glass, EVA and Tedlar in a composite climate of India. 2017 , 144, 267-277	18
266	Polymer H ullerene Solar Cells. 2017 , 1-21	1
265	Improving, characterizing and predicting the lifetime of organic photovoltaics. 2017 , 50, 103001	39
264	The effect of grain orientation on the morphological stability of the organicihorganic perovskite films under elevated temperature. 2017 , 38, 014002	4
263	Facile Approach to Preparing a Vanadium Oxide Hydrate Layer as a Hole-Transport Layer for High-Performance Polymer Solar Cells. 2017 , 9, 18087-18094	24
262	Organic-Inorganic Hybrid Perovskite Solar Cells with Scalable and Roll-to-Roll Compatible Printing/Coating Processes. 2017 , 313-362	2
261	Electrode Materials for Printable Solar Cells. 2017 , 457-512	4
260	Critical Impact of Hole Transporting Layers and Back Electrode on the Stability of Flexible Organic Photovoltaic Module. 2017 , 7, 1601289	6
259	Evaluating structurefunction relationships toward three-component conjugated polymers via direct arylation polymerization (DArP) for Stille-convergent solar cell performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14101-14113	17
258	Improvement of photo-current density of P3HT:PCBM bulk heterojunction organic solar cell using periodic nanostructures. 2017 ,	
257	Detailed optical modelling and light-management of thin-film organic solar cells with consideration of small-area effects. 2017 , 25, A176-A190	21
256	Recent advances of conductive nanocomposites in printed and flexible electronics. 2017 , 26, 083001	52
255	Enhanced efficiency and stability of polymer solar cells using solution-processed nickel oxide as hole transport material. 2017 , 17, 1232-1237	5
254	Mechanical Properties of Organic Semiconductors for Stretchable, Highly Flexible, and Mechanically Robust Electronics. 2017 , 117, 6467-6499	430
253	Energy Harvesting: Breakthrough Technologies Through Polymer Composites. 2017 , 1-42	
252	Roll-to-roll micro-gravure printed large-area zinc oxide thin film as the electron transport layer for solution-processed polymer solar cells. 2017 , 45, 190-197	80
251	Ink transfer of non-Newtonian fluids from an idealized gravure cell: The effect of shear and extensional deformation. 2017 , 243, 16-26	21
250	Charge Accumulation Spectroscopy for Investigating Organic Photovoltaic Stability. 2017, 1, 1600007	2

249	Large-area, flexible polymer solar cell based on silver nanowires as transparent electrode by roll-to-roll printing. 2017 , 35, 261-268	24
248	Effect of Morphology on the Electrical Resistivity of Silver Nanostructure Films. 2017 , 9, 1870-1876	65
247	Simulating charge transport in organic semiconductors and devices: a review. 2017 , 80, 026502	44
246	Low-Temperature Solution-Processed SnO Nanoparticles as a Cathode Buffer Layer for Inverted Organic Solar Cells. 2017 , 9, 1645-1653	77
245	Perovskite Solar Cells Using Carbon Nanotubes Both as Cathode and as Anode. 2017 , 121, 25743-25749	69
244	The promotion effects of thionation and isomerization on charge carrier mobility in naphthalene diimide crystals. 2017 , 19, 28175-28181	9
243	Perovskite and Organic Solar Cells Fabricated by Inkjet Printing: Progress and Prospects. 2017 , 27, 1703704	93
242	Development of Highly Crystalline DonorAcceptor-Type Random Polymers for High Performance Large-Area Organic Solar Cells. 2017 , 50, 7567-7576	13
241	Electrical and optical modeling of poly(3-hexylthiophene):[6,6]-phenyl-C61 butyric acid methyl ester P3HTPCBM bulk heterojunction solar cells. 2017 , 123, 1	2
240	Correlating Crack Onset Strain and Cohesive Fracture Energy in Polymer Semiconductor Films. 2017 , 50, 8611-8618	39
239	Scalable, "Dip-and-Dry" Fabrication of a Wide-Angle Plasmonic Selective Absorber for High-Efficiency Solar-Thermal Energy Conversion. 2017 , 29, 1702156	71
238	Temperature controlled interlayer disorder in ultrathin films of Bexithiophene. 2017 , 642, 182-187	2
237	Morphology of a Ternary Blend Solar Cell Based on Small Molecule:Conjugated Polymer:Fullerene Fabricated by Blade Coating. 2017 , 27, 1703268	24
236	ITO-Free Flexible Perovskite Solar Cells Based on Roll-to-Roll, Slot-Die Coated Silver Nanowire Electrodes. 2017 , 1, 1700059	57
235	Printing Fabrication of Bulk Heterojunction Solar Cells and In Situ Morphology Characterization. 2017 ,	1
234	Molecular weight tuning of low bandgap polymers by continuous flow chemistry: increasing the applicability of PffBT4T for organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18166-1817 53	13
233	Improved performance of inkjet-printed Ag source/drain electrodes for organic thin-film transistors by overcoming the coffee ring effects. 2017 , 7, 115008	6
232	Simplified Models for Accelerated Structural Prediction of Conjugated Semiconducting Polymers. 2017 , 121, 26528-26538	9

231	The role of chemical structure in indacenodithienothiophene-alt-benzothiadiazole copolymers for high performance organic solar cells with improved photo-stability through minimization of burn-in loss. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25064-25076	20
230	A novel self-assembly with two acetohydrazide zinc porphyrins coordination polymer for supramolecular solar cells. 2017 , 41, 301-306	10
229	Improvement of short circuit current density by intermolecular interaction between polymer backbones for polymer solar cells. 2017 , 49, 177-187	4
228	An experimental study on the reproducibility of different multilayer OLED materials processed by slot die coating. 2017 , 160, 113-120	19
227	Decreased domain size of p-DTS(FBTTh)/P(NDI2OD-T2) blend films due to their different solution aggregation behavior at different temperatures. 2017 , 19, 32373-32380	1
226	Solar Cells. 2017 , 145-237	
225	Insights on the Optical Properties of Poly(3,4-Ethylenedioxythiophene):Poly(styrenesulfonate) Formulations by Optical Metrology. 2017 , 10,	11
224	Organic Solar Cell by Inkjet PrintingAn Overview. 2017 , 5, 53	27
223	Charging Characteristics of Lithium Ion Battery Using Semi-Solar Modules of Polymer:Fullerene Solar Cells. 2017 , 10, 1886	3
222	Bulk Heterojunction Organic Solar Cell Area-Dependent Parameter Fluctuation. 2017 , 2017, 1-10	9
221	Slot die coated planar perovskite solar cells via blowing and heating assisted one step deposition. Solar Energy Materials and Solar Cells, 2018 , 179, 80-86	79
220	Flexible Solar Cells. 2018 , 325-362	4
219	The effect of various solvent additives on the power conversion efficiency of polymer-polymer solar cells. 2018 , 18, 534-540	10
218	All-Polymer Integrated Optical Resonators by Roll-to-Roll Nanoimprint Lithography. 2018 , 5, 1839-1845	29
217	Flexible perovskite solar cells based on green, continuous roll-to-roll printing technology. 2018 , 27, 971-989	40
216	The meniscus-guided deposition of semiconducting polymers. 2018 , 9, 534	214
215	Graphene transparent conductive electrodes doped with graphene quantum dots-mixed silver nanowires for highly-flexible organic solar cells. 2018 , 744, 1-6	46
214	Tattoo-Like Transferable Hole Selective Electrodes for Highly Efficient, Solution-Processed Organic Indoor Photovoltaics. 2018 , 4, 1700325	15

213	Aqueous deposition of a semiconducting polymer by electrocoating. 2018 , 53, 332-338	2
212	Recent advances of flexible perovskite solar cells. 2018 , 27, 673-689	54
211	Nanoscopy of Single Charge Carrier Jumps in a Conjugated Polymer Nanoparticle. 2018 , 122, 1376-1383	13
210	Alkali Salt-Doped Highly Transparent and Thickness-Insensitive Electron-Transport Layer for High-Performance Polymer Solar Cell. 2018 , 10, 1939-1947	16
209	Screen printed PEDOT:PSS films as transparent electrode and its application in organic solar cells on opaque substrates. 2018 , 29, 11030-11038	13
208	Effect of Radial Stress on the Adhesive Force of a Wound Roll in Industrial Roll-to-Roll Manufacturing System. 2018 , 19, 411-415	3
207	Roll-to-Roll Fabrication of Solution Processed Electronics. 2018 , 20, 1701190	72
206	Fully Solution-Processed TCO-Free Semitransparent Perovskite Solar Cells for Tandem and Flexible Applications. 2018 , 8, 1701569	67
205	Manufacturing cost and market potential analysis of demonstrated roll-to-roll perovskite photovoltaic cell processes. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 174, 314-324	82
204	Enhanced electrical properties of Lifloped NiO x hole extraction layer in pff type perovskite solar cells. 2018 , 18, S55-S59	17
203	Dithienosilolephenylquinoxaline-based copolymers with A-D-A-D and A-D structures for polymer solar cells. 2018 , 56, 376-386	4
202	Flexible and Semitransparent Organic Solar Cells. 2018 , 8, 1701791	374
201	Transfer Tiling of Nanostructures for Large-Area Fabrication. 2018 , 9,	О
200	Truly Low Temperature Sintering of Printed Copper Ink Using Formic Acid. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800146 6.8	19
199	Order D isorder Phase Equilibria of Regioregular Poly(3-hexylthiophene-2,5-diyl) Solution. 2018 , 51, 9026-9034	4 8
198	Tailoring Characteristics of PEDOT:PSS Coated on Glass and Plastics by Ultrasonic Substrate Vibration Post Treatment. 2018 , 8, 337	17
197	Rational Strategies for Large-area Perovskite Solar Cells. 2018 , 307-337	1
196	Passivation effect of composite organic interlayer on polymer solar cells. 2018 , 63, 129-136	3

195	Strategic fluorination of polymers and fullerenes improves photostability of organic photovoltaic blends. 2018 , 62, 685-694	4
194	Solvent-Free Deposition of Ultrathin Copolymer Films with Tunable Viscoelasticity for Application to Pressure-Sensitive Adhesives. 2018 , 10, 32668-32677	12
193	Aluminum Electrode Insulation Dynamics via Interface Oxidation by Reactant Diffusion in Organic Layers. 2018 , 215, 1800474	2
192	Enhancing light harvesting and charge transport in organic solar cells via integrating lanthanide-doped upconversation materials. 2018 , 51, 265105	7
191	Environmentally friendly preparation of nanoparticles for organic photovoltaics. 2018, 59, 432-440	18
190	Enhanced internal quantum efficiency of organic light-emitting diodes: A synergistic effect. 2018 , 364, 577-587	4
189	Organic synaptic devices for neuromorphic systems. 2018 , 51, 314004	66
188	Influence of Compact, Inorganic Surface Ligands on the Electrophoretic Deposition of Semiconductor Nanocrystals at Low Voltage. 2018 , 34, 9598-9605	3
187	Efficient Non-Fullerene Organic Photovoltaic Modules Incorporating As-Cast and Thickness-Insensitive Photoactive Layers. 2018 , 8, 1801387	39
186	Polymeric Materials for Conversion of Electromagnetic Waves from the Sun to Electric Power. 2018 , 10,	6
185	Integrated Flexible Conversion Circuit between a Flexible Photovoltaic and Supercapacitors for Powering Wearable Sensors. 2018 , 165, B3122-B3129	20
184	Polymer Blends and Composites. 2018 , 271-294	O
183	Interfacial effects on solution-sheared thin-film transistors. 2018 , 6, 12006-12015	11
182	High-efficiency large-area perovskite photovoltaic modules achieved via electrochemically assembled metal-filamentary nanoelectrodes. 2018 , 4, eaat3604	39
181	Graphene- and Carbon-Nanotube-Based Transparent Electrodes for Semitransparent Solar Cells. 2018 , 11,	25
180	Mechanical Reliability of Flexible Encapsulated Organic Solar Cells: Characterization and Improvement. 2018 , 10, 29805-29813	9
179	Hot slot die coating for additive-free fabrication of high performance roll-to-roll processed polymer solar cells. 2018 , 11, 3248-3255	63
178	Beyond Fullerenes: Indacenodithiophene-Based Organic Charge-Transport Layer toward Upscaling of Low-Cost Perovskite Solar Cells. 2018 , 10, 22143-22155	20

177	Lumped-element model of plasmonic solar cells. 2018 , 147, 39-43		2
176	Polymer with a 3D conductive network: a thickness-insensitive electron transport layer for inverted polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12969-12973	13	21
175	Roll-to-Roll Slot-Die-Printed Polymer Solar Cells by Self-Assembly. 2018 , 10, 22485-22494		22
174	High-Speed Vapor Transport Deposition of Perovskite Thin Films. 2019 , 11, 32928-32936		13
173	Slot-Die and Roll-to-Roll Processed Single Junction Organic Photovoltaic Cells with the Highest Efficiency. 2019 , 9, 1901805		44
172	Carbon-based integrated devices for efficient photo-energy conversion and storage. 2019 , 357-374		1
171	Roll-to-roll printing of spatial wearable thermoelectrics. 2019 , 21, 28-34		7
170	A process model for slot coating of narrow stripes. 2019 , 16, 1653-1661		4
169	Modeling of photoactive area spreading in unstructured photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 200, 110011	6.4	3
168	Tuning Metastability of Poly(3-hexyl thiophene) Solutions to Enable in Situ Atomic Force Microscopy Imaging of Surface Nucleation. 2019 , 52, 7756-7761		6
167	Impact of P3HT materials properties and layer architecture on OPV device stability. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 202, 110151	6.4	10
166	Ligand-free preparation of polymer/CuInS nanocrystal films and the influence of 1,3-benzenedithiol on their photovoltaic performance and charge recombination properties. 2019 , 7, 943-952		6
165	Solution-shearing-processed flexible polymer solar mini sub-modules fabricated on an embedded silver-grid substrate. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 193, 169-177	6.4	3
164	High-performance inverted polymer solar cells without an electron extraction layer via a one-step coating of cathode buffer and active layer. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1429-1434	13	15
163	Acene-Modified Small-Molecule Donors for Organic Photovoltaics. 2019 , 25, 12316-12324		2
162	Intelligent Roll-to-Roll Manufacturing of Organic Electronic Devices. 2019, 627-653		1
161	New Directions for Organic Thin-Film Solar Cells: Stability and Performance. 2019 , 195-244		1
160	High efficiency tandem polymer solar cells with MoO3/Ni/ZnO:PEOz hybrid interconnection layers. 2019 , 4, 1221-1226		11

159	Tunable Piezoresistivity from Magnetically Aligned Ni(Core)@Ag(Shell) Particles in an Elastomer Matrix. 2019 , 11, 20360-20369	4
158	Technology and Market Perspective for Indoor Photovoltaic Cells. 2019 , 3, 1415-1426	160
157	Tuning the work function of the silicene/4 🗗 Ag(111) surface. 2019 , 21, 7165-7173	6
156	Homocoupling defects in porphyrinoid small molecules and their effect on organic solar cell performance. 2019 , 69, 48-55	2
155	Emptying of gravure cavities containing shear-thinning and shear-thickening liquids. 2019 , 268, 46-55	5
154	Performance Evaluation of Electron Transport Layers based on PCBM/P3HT BHJ Organic Solar Cells. 2019 ,	
153	Optimization of broadband omnidirectional antireflection coatings for solar cells. 2019 , 40, 032702	6
152	Current status, challenges and future outlook of high performance polymer semiconductors for organic photovoltaics modules. 2019 , 91, 51-79	27
151	Design of a register controller considering inherent characteristics of a roll-to-roll continuous manufacturing system. 2019 , 102, 3725-3737	10
150	Large-Area Coating of Previtamin D3 Based on Roll-to-Roll Processing. 2019 , 9, 577	1
149	Economically sustainable growth of small-scale perovskite manufacturing in alternative PV markets. 2019 ,	1
148	Roll-to-roll micro-gravure printed P3HT:PCBM organic solar cells. 2019 , 4, 044007	7
147	Environmental Performance of Emerging Photovoltaic Technologies: Assessment of the Status Quo and Future Prospects Based on a Meta-Analysis of Life-Cycle Assessment Studies. 2019 , 12, 4228	5
146	Construction of Effective Polymer Solar Cell Using 1,7-Disubstituted Perylene Diimide Derivatives as Electron Transport Layer. 2019 , 4, 21178-21186	1
145	Multi-bandgap Solar Energy Conversion via Combination of Microalgal Photosynthesis and Spectrally Selective Photovoltaic Cell. 2019 , 9, 18999	15
144	Effect of boundary chain folding on thermal conductivity of lamellar amorphous polyethylene 2019 , 9, 33549-33557	9
143	Roll-to-roll solvent annealing of printed P3HT : ICA devices 2019 , 9, 42294-42305	4
142	Shape-Tuned Junction Resistivity and Self-Damping Dynamics in Intense Pulsed Light Sintering of Silver Nanostructure Films. 2019 , 11, 3536-3546	22

(2020-2019)

141	Implementing Inkjet-Printed Transparent Conductive Electrodes in Solution-Processed Organic Electronics. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800474	6.8	9	
140	Thermomechanics of axially moving webs in roll-to-roll manufacturing processes. 2019 , 129, 1317-1327		3	
139	Macro-scale transport of the excitation energy along a metal nanotrack: exciton-plasmon energy transfer mechanism. 2019 , 9, 98		4	
138	A novel self-assembly based on double-layer zinc porphyrin sensitizers in supramolecular solar cell. 2019 , 72, 69-82		2	
137	Large-Area Organic Solar Cells: Material Requirements, Modular Designs, and Printing Methods. 2019 , 31, e1805089		152	
136	Self-Assembled 2D Perovskite Layers for Efficient Printable Solar Cells. 2019 , 9, 1803258		111	
135	Effect of Thermal Annealing on the Electrical Properties of Inverted Organic Solar Cells Based on PCDTBT: PC70BM Nanocomposites. <i>Journal of Electronic Materials</i> , 2019 , 48, 352-357	1.9	5	
134	Organic solar cells: Materials and prospects of graphene for active and interfacial layers. 2020 , 45, 261-2	288	6	
133	High-Performance and Stable Nonfullerene Acceptor-Based Organic Solar Cells for Indoor to Outdoor Light. 2020 , 5, 170-179		51	
132	Roll-to-roll stack and lamination of gas diffusion layer in multilayer structured membrane electrode assembly. 2020 , 234, 66-74		2	
131	Recent progress towards roll-to-roll manufacturing of perovskite solar cells using slot-die processing. 2020 , 5, 014006		20	
130	Recent Progress in Photonic Synapses for Neuromorphic Systems. 2020 , 2, 1900136		59	
129	Pure Organic Semiconductor-Based Photoelectrodes for Water Splitting. 2020 , 4, 1900395		21	
128	Net energy and cost benefit of transparent organic solar cells in building-integrated applications. 2020 , 261, 114429		32	
127	Novel Conjugated Polymers Containing 3-(2-Octyldodecyl)thieno[3,2-]thiophene as a Bridge for Organic Photovoltaic Applications. 2020 , 12,		O	
126	Roll-to-roll gravure-printed flexible perovskite solar cells using eco-friendly antisolvent bathing with wide processing window. 2020 , 11, 5146		94	
125	Recent advances in non-fullerene organic solar cells: from lab to fab. 2020 , 56, 14337-14352		40	
124	Progress in Materials, Solution Processes, and Long-Term Stability for Large-Area Organic Photovoltaics. 2020 , 32, e2002217		52	

123	Overview of printing and coating techniques in the production of organic photovoltaic cells. 2020 , 44, 9912-9931	9
122	Evaporated MoOx as General Back-Side Hole Collector for Solar Cells. 2020 , 10, 763	5
121	. 2020,	9
120	Developement of highly efficient large area organic photovoltaic module: Effects of nonfullerene acceptor. 2020 , 77, 105147	9
119	Aggregation Tuning with Heavily Fluorinated Donor Polymer for Efficient Organic Solar Cells. 2020 , 12, 49849-49856	2
118	Interfacial Dipole in Organic and Perovskite Solar Cells. 2020 , 142, 18281-18292	70
117	Water/Ethanol Soluble p-Type Conjugated Polymers for the Use in Organic Photovoltaics. 2020, 7,	1
116	Challenges and approaches towards upscaling the assembly of hybrid perovskite solar cells. 2020 , 1, 292-309	22
115	Enhanced hole selecting behavior of WO3 interlayers for efficient indoor organic photovoltaics with high fill-factor. <i>Applied Surface Science</i> , 2020 , 527, 146840	20
114	A Practical Guide for Advanced Methods in Solar Photovoltaic Systems. 2020 ,	3
113	Photosupercapacitors: A perspective of planar and flexible dual functioning devices. 2020 , 9, e377	2
112	Layer-Dependent Quasiparticle Electronic Structure of the P3HT:PCBM Interface from a First-Principles Substrate Screening GW Approach. 2020 , 124, 13592-13601	2
111	Encapsulation Effect on Performance and Stability of Organic Solar Cells. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000293	6
110	What is the role of planarity and torsional freedom for aggregation in a Econjugated donoracceptor model oligomer?. 2020 , 8, 4944-4955	3
109	Advances in stable and flexible perovskite solar cells. 2020 , 20, 720-737	12
108	Solution-Processable Anode Double Buffer Layers for Inverted Polymer Solar Cells. 2020 , 217, 1901023	6
107	Roll-to-roll printing of polymer and perovskite solar cells: compatible materials and processes. 2020 , 55, 13490-13542	10
106	Fully-printed electrochemical sensors made with flexible screen-printed electrodes modified by roll-to-roll slot-die coating. 2020 , 165, 112428	18

(2021-2020)

105	Highly efficient, green-solvent processable, and stable non-fullerene polymer solar cells enabled by a random polymer donor. 2020 , 85, 105874	6
104	Economically Sustainable Growth of Perovskite Photovoltaics Manufacturing. 2020, 4, 822-839	27
103	Amino Anthraquinone: Synthesis, Characterization, and Its Application as an Active Material in Environmental Sensors. 2020 , 13,	4
102	An all carbon dye sensitized solar cell: A sustainable and low-cost design for metal free wearable solar cell devices. 2020 , 569, 386-401	10
101	Flexible and Wearable Solar Cells and Supercapacitors. 2020 , 87-129	3
100	Preparation of polyacrylic latex with external crosslinking and its effect on the pressure-sensitive properties. 2020 , 18, 432-442	1
99	Improved stability in P3HT:PCBM photovoltaics by incorporation of well-designed polythiophene/graphene compositions. 2020 , 69, 833-846	3
98	High indoor performance of flexible organic photovoltaics using polymer electrodes. 2020 , 704, 138006	19
97	Encapsulation improvement and stability of ambient roll-to-roll slot-die-coated organic photovoltaic modules. 2021 , 213, 136-144	2
96	A facile and green synthesis of superparamagnetic Fe3O4@PANI nanocomposite with a corelhell structure to increase of triplet state population and efficiency of the solar cells. 2021 , 9, 104942	8
95	Ultrasoft and High-Mobility Block Copolymers for Skin-Compatible Electronics. 2021 , 33, e2005416	19
94	Insights into Large-Scale Fabrication Methods in Perovskite Photovoltaics. 2021 , 2, 2000046	9
93	Enhanced lifetime of organic photovoltaic diodes achieved by blending with PMMA: Impact of morphology and Donor:Acceptor combination. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 219, 110765 ^{6.4}	4
92	Recent Progress in Metal Oxide for Photovoltaic Application. 2021 , 99-145	
91	Printed flexible thermoelectric materials and devices. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19439-19464	6
90	Efficiency Enhancement of a PCDTBT/PC71 BM-based Organic Solar Cell Through Layer-thickness Optimization. 2021 ,	
89	Molecular Insights into the Mechanical Properties of Polymer E ullerene Bulk Heterojunctions for Organic Photovoltaic Applications. 2021 , 54, 958-969	4
88	Significant Enhancement of Illumination Stability of Nonfullerene Organic Solar Cells via an Aqueous Polyethylenimine Modification. 2021 , 12, 2607-2614	12

87	Enhanced flexible optoelectronic devices by controlling the wettability of an organic bifacial interlayer. 2021 , 2,	6
86	Charge Carrier Mobility Improvement in Diketopyrrolopyrrole Block-Copolymers by Shear Coating. 2021 , 13,	3
85	Progress in Upscaling Organic Photovoltaic Devices. 2021 , 11, 2100342	22
84	Main Challenges for the Commercialization of OEC. 2021 , 491-504	
83	Solution processing of polymer solar cells: towards continuous vacuum-free production. 2021 , 32, 11367-113	920
82	Flexible Organic Solar Cells: Progress and Challenges. 2021 , 1, 2100001	34
81	Designing Simple Conjugated Polymers for Scalable and Efficient Organic Solar Cells. 2021 , 14, 3561-3568	13
80	Self-Supporting Electrodes for Gas-Involved Key Energy Reactions. 2021 , 31, 2104620	14
79	Theoretical study of dipyridine phenanthrene derivatives for BHJ organic solar cells application: a DFT approach. 2021 , 47, 4657	
78	Stability, encapsulation and large-area fabrication of organic photovoltaics. 2021 , 64, 1441-1459	1
77	Measuring nonuniform web tension for roll-to-roll manufacturing of flexible and printed electronics. 2021 , 6, 035006	3
76	Backbone Engineering with Fluoroarene to Mitigate Morphological Disorder for High-Performance Polymer Solar Cells.	O
75	Benzothiadiazole-based non-fullerene acceptors. 2021 , 87, 106174	30
74	Assessment of the levelized cost of energy using a stochastic model. 2022 , 238, 121776	1
73	Research on the Influence Factors of Unwinding Tension in Roll-To-Roll Processing. 2021 , 519-524	
72	Engineering polymer solar cells: advancement in active layer thickness and morphology.	7
71	Nonfullerene acceptors for P3HT-based organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18857-18886	21
70	Interlayers for non-fullerene based polymer solar cells: distinctive features and challenges. 2021 , 14, 180-223	65

69	Photochemical Stability of Materials for OPV. 71-108		4
68	Degradation of Polymer-Based OPV. 143-162		2
67	Encyclopedia of Applied Electrochemistry. 2014 , 2029-2040		1
66	Organic Solar Cells: A Review. 2020 , 81-106		1
65	Vibrations of Air-Coupled Web Systems. 2021 , 143,		1
64	Effect of RF Magnetron Sputtered Nickel Oxide Thin Films as an Anode Buffer Layer in a P3HT:PCBM Bulk Hetero-Junction Solar Cells. 2018 , 133, 887-891		3
63	Ultra-high capacity for three-dimensional optical data storage inside transparent fluorescent tape. 2020 , 45, 1535-1538		8
62	Effect of PVP(polyvinylpyrrolidone) on the Ag Nano Ink Property for Reverse Offset Printing. 2012 , 22, 476-481		1
61	Synthesis and Characterization of New Push-Pull Chromophores Containing BF2-Azopyrrole Derivatives. 2016 , 60, 21-27		3
60	Economic evaluation of the life cycle of a wind farm and improving the levelized cost of energy in region Champagne-Ardenne, France. 1		
59	The Effect of OPV Module Size on Stability and Diurnal Performance: Outdoor Tests and Application of a Computer Model. 2021 , 14, 6324		
58	Differing Impacts of Blended Fullerene Acceptors on the Performance of Ternary Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 10867-10876	6.1	
57	Flexible perovskite solar cells: Materials and devices. 2021 , 42, 101606		1
56	Polymer in Sustainable Energy. 2012 , 11, 661-666		O
55	Hybrid Optical Confinement Geometry Device. 2013 , 123-139		
54	Effect of multiple temperature-step annealing on the performances of polymer solar cells. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2014 , 63, 048801	0.6	1
53	Alternative Electrodes for OSC. 2014 , 177-213		
52	Research Progress and Manufacturing Techniques for Large-Area Polymer Solar Cells. 2014 , 275-300		

51 Flexible Substrates and Barriers. **2014**, 591-637

50	Interface Modification for Organic Solar Cells. 2015 ,		
49	Synthesis and Photovoltaic Properties of a Low Band Gap Polymer for Organic Solar Cell. <i>Porrime</i> , 2015 , 39, 71-77	1	
48	Effects of bathocuproine/Ag composite anode on the performances of stability polymer photovoltaic devices. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015 , 64, 108801	0.6	
47	Polymers, Nanomaterials, and Organic Photovoltaic Devices. 319-340		1
46	Highly Stable Inverted Organic Solar Cells Based on Novel Interfacial Layers. 221-254		
45	Effect on the micro-electrical behavior of organic photovoltaics under post-thermal annealing. 2018 ,		
44	Printable Electrode Materials for Supercapacitors. 2021 , 1, 17-17		3
43	Light-emission organic solar cells with MoO3:Al interfacial layerpreparation and characterizations. <i>Frontiers of Optoelectronics</i> , 1	2.8	
42	Adaptive Control for Multi-Shaft with Web Materials Linkage Systems. <i>Inventions</i> , 2021 , 6, 76	2.9	1
41	Fabrication of transparent quartz roll mold using a roll-to-plate wrapping process for flexible electronics. <i>Micro and Nano Engineering</i> , 2021 , 13, 100097	3.4	0
40	Organic Devices: Fabrication, Applications, and Challenges. <i>Journal of Electronic Materials</i> , 2022 , 51, 447	1.9	2
39	A liquid-crystalline non-fullerene acceptor enabling high-performance organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 26917-26928	13	0
38	Web Processing Control using Backstepping and RBF Neural Networks. 2021,		O
37	Sintering mechanism of size-controllable Cu-Ag core-shell nanoparticles for flexible conductive film with high conductivity, antioxidation, and electrochemical migration resistance. <i>Applied Surface Science</i> , 2022 , 586, 152691	6.7	1
36	ReviewLonjugated Polymer Photovoltaic Materials: Performance and Applications of Organic Semiconductors in Photovoltaics. <i>ECS Journal of Solid State Science and Technology</i> ,	2	O
35	Electrode sticker for electrode lamination process enables highly durable inverted organic solar cells. <i>Synthetic Metals</i> , 2022 , 285, 117024	3.6	1
34	Advanced Neutron and Synchrotron Characterization Techniques for Nanocomposite Perovskite Materials Toward Solar Cells Applications. <i>Engineering Materials</i> , 2022 , 613-661	0.4	

33	Enhancement in the Inherent Photostability of Small Molecule-Based Bhj Device by Molecular Architecturing. SSRN Electronic Journal,	1	О
32	Organic PhotovoltaicsINew Renaissance: Advances Toward Roll-to-Roll Manufacturing of Non-Fullerene Acceptor Organic Photovoltaics. <i>Advanced Materials Technologies</i> , 2101556	6.8	6
31	Large-Area Flexible Organic Solar Cells. 2022 , 405-453		О
30	Novel Self-assembled Isonicotinic Acid Derivative and Zinc Porphyrin Dyads and Applications in Dye Sensitized Solar Cells. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 1	3.2	
29	Thermally Stable and Soft Pressure-Sensitive Adhesive for Foldable Electronics. SSRN Electronic Journal,	1	
28	Complex multilength-scale morphology in organic photovoltaics. <i>Trends in Chemistry</i> , 2022 ,	14.8	1
27	Functionalized BODIPYs as Tailor-Made and Universal Interlayers for Efficient and Stable Organic and Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2102324	4.6	
26	Understanding the blade coated to roll-to-roll coated performance gap in organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 245, 111852	6.4	2
25	Benzotriazole-containing fluorinated acrylic polymer coatings with high thermal stability, low surface energy, high visible-light transparency, and UV-blocking performance. <i>Polymer Bulletin</i> ,	2.4	
24	Enhancement in the inherent photostability of small molecule-based BHJ device by molecular architecturing. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022 , 283, 115841	3.1	
23	Pyrrolopyrrole-1,3-dione-Based Wide Band-Gap Polymeric Donors Exemplify High Voltage and Diminutive Energy Loss for Efficient Binary and Tandem Nonfullerene Organic Solar Cells with Efficiency Exceeding 15.7%. ACS Applied Energy Materials,	6.1	О
22	A review on organic photovoltaic cell.		О
21	Large-area Flexible Organic Solar Cells: Printing Technologies and Modular Design.		2
20	Thermally stable and soft pressure-sensitive adhesive for foldable electronics. 2023 , 452, 139050		2
19	CHAPTER 15. Outlook and Prospects. 2022 , 645-656		О
18	AI-Aided Printed Line Smearing Analysis of the Roll-to-Roll Screen Printing Process for Printed Electronics.		O
17	An Organic Semiconductor Photoelectrochemical Tandem Cell for Solar Water Splitting. 2202363		О
16	Modelling, Simulation and Control of Roll-to-Roll Physical Vapor Deposition Processes. 2022 , 113, 546-	-551	О

15	Modeling, Numerical Simulation and Performance Optimization of P3HT:PC70BM Based Bulk Hetero Junction Organic Solar Cells. 2022 , 17, 579-587	О
14	Printed Temperature Sensor Based on Self-Doped Conducting Polymers.	1
13	Recent progress in solution-processed flexible organic photovoltaics. 2022 , 6,	O
12	Recent progress in flexible organic solar cells. 2022 ,	1
11	Competing single-chain folding and multi-chain aggregation pathways control solution-phase aggregate morphology of organic semiconducting polymers. 2022 , 14, 18070-18086	О
10	In-situ Absorption Characterization Guided Slot-Die-Coated High-Performance Large-area Flexible Organic Solar Cells and Modules. 2209030	O
9	A Flexible, High-Voltage (>100៤) Generating Device Based on Zebra-like Asymmetrical Photovoltaic Cascade. 2209482	O
8	Validation of three-dimensional printed models of intracranial aneurysms. 159101992211432	O
7	Flexible Photovoltaic Solar Design. 2023 , 93-149	О
6	A Comparative Study of Organic Dye-Sensitized Solar Cells Based on Anatase TiO2 and Amorphous Free Mixed Phase Anatase/Rutile P25 TiO2 Photoanodes. 2023 , 13, 121	O
5	Compatible Solution-Processed Interface Materials for Improved Efficiency of Polymer Solar Cells. 2201740	О
4	Recent Advances and Challenges toward Efficient Perovskite/Organic Integrated Solar Cells. 2023 , 16, 266	1
3	Manipulating the Macroscopic and Microscopic Morphology of Large-Area Gravure-Printed ZnO Films for High-Performance Flexible Organic Solar Cells.	О
2	Review of roll-to-roll fabrication techniques for colloidal quantum dot solar cells. 2023 , 21, 100189	O
1	Reducing Energy Loss in Polymer Solar Cell through Optimization of Novel Metal Nanocomposite. 2023 , 37, 6129-6137	O