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#	Paper	IF	Citations
827	Properties of non-doped organic light-emitting devices based on an ultrathin iridium complex phosphor layer. 2010 , 3, 413-417		2
826	Enhanced performance of inverted polymer solar cells with cathode interfacial tuning via water-soluble polyfluorenes. 2010 , 97, 223305		117
825	Solution-processed cross-linkable hole selective layer for polymer solar cells in the inverted structure. 2010 , 97, 193310		30
824	Threshold voltage control in organic thin film transistors with dielectric layer modified by a genetically engineered polypeptide. 2010 , 97, 013307		34
823	Electrical characterization of organic resistive memory with interfacial oxide layers formed by O ₂ plasma treatment. 2010 , 97, 063305		41
822	Anode modification of inverted polymer solar cells using graphene oxide. 2010 , 97, 203306		104
821	Tuning of a graphene-electrode work function to enhance the efficiency of organic bulk heterojunction photovoltaic cells with an inverted structure. 2010 , 97, 213301		87
820	Origin of Radiation Induced Damage in Organic P3HT:PCBM Based Photocells. 2010 ,		1
819	Power from plastic. 2010 , 14, 123-130		28
818	Electrochemically crosslinked surface-grafted PVK polymer brushes as a hole transport layer for organic photovoltaics. 2011 , 21, 10261		34
817	Polymer bilayer films with semi-interpenetrating semiconducting/insulating microstructure for field-effect transistor applications. 2011 , 7, 11103		12
816	Simple Formation of C ₆₀ and C ₆₀ -Ferrocene Conjugated Monolayers Anchored onto Silicon Oxide with Five Carboxylic Acids and Their Transistor Applications. 2011 , 23, 970-975		19
815	Low-temperature growth and characterization of ZnO thin films for flexible inverted organic solar cells. 2011 , 21, 12274		26
814	Morphological and mechanical properties of alkanethiol Self-Assembled Monolayers investigated via BiModal Atomic Force Microscopy. 2011 , 47, 8823-5		18
813	Morphology control for high performance organic thin film transistors. 2011 , 2, 590-600		93
812	Modulation of indium oxide work function by a versatile self-assembled monolayer measured with the scanning Kelvin probe. 2011 , 89, 1512-1518		4
811	Surface-confined nickel mediated cross-coupling reactions: characterization of initiator environment in Kumada catalyst-transfer polycondensation. 2011 , 27, 12033-41		46

810	Direct comparison of solution- and vacuum-processed small molecular organic light-emitting devices with a mixed single layer. 2011 , 3, 2496-503		40
809	Optimization of the bulk heterojunction composition for enhanced photovoltaic properties: correlation between the molecular weight of the semiconducting polymer and device performance. 2011 , 115, 12717-27		51
808	Metal-Diffusion-Induced Interface Dipole: Correlating Metal Oxide/Organic Chemical Interaction and Interface Electronic States. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23107-23112	3.8	6
807	Highly Efficient Electron Injection from Indium Tin Oxide/Cross-Linkable Amino-Functionalized Polyfluorene Interface in Inverted Organic Light Emitting Devices. 2011 , 23, 4870-4876		106
806	Electronic Structure of Aromatic Monomolecular Films: The Effect of Molecular Spacers and Interfacial Dipoles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 22422-22428	3.8	18
805	Nonvolatile memory functionality of ZnO nanowire transistors controlled by mobile protons. 2011 , 5, 558-64		38
804	C60 fullerene nanocolumns--polythiophene heterojunctions for inverted organic photovoltaic cells. 2011 , 3, 1887-94		27
803	Conjugated Polymers for Organic Electronics and Photovoltaic Cell Applications 2011 , 23, 733-758		1887
802	Solution-processed nanocrystalline TiO ₂ buffer layer used for improving the performance of organic photovoltaics. 2011 , 3, 1063-7		37
801	Organic solar cells: A new look at traditional models. 2011 , 4, 4410		330
800	In-situ Crosslinking and n-Doping of Semiconducting Polymers and Their Application as Efficient Electron-Transporting Materials in Inverted Polymer Solar Cells. 2011 , 1, 1148-1153		72
799	Finely tailored performance of inverted organic photovoltaics through layer-by-layer interfacial engineering. 2011 , 3, 3962-70		31
798	Applications of ZnO in organic and hybrid solar cells. 2011 , 4, 3861		391
797	Interface engineering in high-performance low-voltage organic thin-film transistors based on 2,7-dialkyl-[1]benzothieno[3,2-b][1]benzothiophenes. 2011 , 27, 15340-4		23
796	Spectroelectrochemical and electrochemical investigation of a highly conjugated all-thiophene polyazomethine. 2011 , 129, 529-533		23
795	Selective Interlayers and Contacts in Organic Photovoltaic Cells. 2011 , 2, 1337-50		276
794	Cross-linked perylene diimide-based n-type interfacial layer for inverted organic photovoltaic devices. 2011 , 3, 4381-7		32
793	The role of buffer layers in polymer solar cells. 2011 , 4, 285-310		433

792	Nanostructure control in polymer solar cells by self-organization. 2011 , 11, 8-17		8
791	Simultaneous Modification of Bottom-Contact Electrode and Dielectric Surfaces for Organic Thin-Film Transistors Through Single-Component Spin-Cast Monolayers. <i>Advanced Functional Materials</i> , 2011 , 21, 1476-1488	15.6	67
790	Reduction of Tungsten Oxide: A Path Towards Dual Functionality Utilization for Efficient Anode and Cathode Interfacial Layers in Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2011 , 21, 1489-1497	15.6	90
789	Organic Resistive Memory Devices: Performance Enhancement, Integration, and Advanced Architectures. <i>Advanced Functional Materials</i> , 2011 , 21, 2806-2829	15.6	383
788	Quinacridone-Based Electron Transport Layers for Enhanced Performance in Bulk-Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2011 , 21, 4338-4341	15.6	44
787	Enhanced performance and air stability of polymer solar cells by formation of a self-assembled buffer layer from fullerene-end-capped poly(ethylene glycol). 2011 , 23, 1782-7		102
786	Spin-cast and patterned organophosphonate self-assembled monolayer dielectrics on metal-oxide-activated Si. 2011 , 23, 1899-902		58
785	Surface doping of conjugated polymers by graphene oxide and its application for organic electronic devices. 2011 , 23, 1903-8		190
784	Combination of titanium oxide and a conjugated polyelectrolyte for high-performance inverted-type organic optoelectronic devices. 2011 , 23, 2759-63		235
783	The potential of molecular self-assembled monolayers in organic electronic devices. 2011 , 23, 2689-95		162
782	Morphology optimization for the fabrication of high mobility thin-film transistors. 2011 , 23, 3128-33		47
781	Improving device efficiency of polymer/fullerene bulk heterojunction solar cells through enhanced crystallinity and reduced grain boundaries induced by solvent additives. 2011 , 23, 3315-9		443
780	Solution-processable reduced graphene oxide as a novel alternative to PEDOT:PSS hole transport layers for highly efficient and stable polymer solar cells. 2011 , 23, 4923-8		332
779	Graphene - a promising material for organic photovoltaic cells. 2011 , 23, 5342-58		218
778	High Performance Organic Photovoltaic Cells Using Polymer-Hybridized ZnO Nanocrystals as a Cathode Interlayer. 2011 , 1, 690-698		112
777	Electrode Considerations for the Optical Enhancement of Organic Bulk Heterojunction Solar Cells. 2011 , 1, 930-935		65
776	Conjugated 4-methoxybipyrrole thiophene azomethines: synthesis, opto-electronic properties, and crystallographic characterization. 2011 , 17, 10879-88		18
775	Highly efficient indacenodithiophene-based polymeric solar cells in conventional and inverted device configurations. <i>Organic Electronics</i> , 2011 , 12, 794-801	3.5	38

774	Recent development of the inverted configuration organic solar cells. 2011 , 95, 1785-1799		190
773	Efficiency improvement of polymer solar cells by iodine doping. 2011 , 63, 83-83		12
772	A theoretical approach to the formation mechanism of diphenyldithieno[3,2-b:2',3'-d]thiophene from 1,8-diketone, 4,5-bis(benzoylmethylthio)thiophene: a DFT study. 2011 , 67, 6275-6280		4
771	Thermal Boundary Resistance between N,N'-Bis(1-naphthyl)-N,N'-diphenylbenzidine and Aluminum Films. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 11RB02	1.4	
770	Enhanced performance in polymer photovoltaic cells with chloroform treated indium tin oxide anode modification. 2011 , 98, 253303		46
769	High performance polymer light-emitting diodes with N-type metal oxide/conjugated polyelectrolyte hybrid charge transport layers. 2011 , 99, 163305		34
768	ITO electrode/photoactive layer interface engineering for efficient inverted polymer solar cells based on P3HT and PCBM using a solution-processed titanium chelate. 2012 , 45, 285102		17
767	Characterizing Annealing Effect of Poly (3,4-ethylenedioxythiophene) Polymerized with Poly (4-styrenesulfonate) Conjugated Film on the Molecular Arrangement and Work Function by Core-Level and Valence-Level Band Spectra. 2012 , 1, M10-M14		22
766	Damage-Free Photoemission Study of Conducting Carbon Composite Electrode Using Ar Gas Cluster Ion Beam Sputtering Process. 2012 , 159, H626-H632		35
765	Enhanced performance in organic photovoltaic devices with a KMnO ₄ solution treated indium tin oxide anode modification. 2012 , 21, 128402		7
764	Semi-transparent polymer solar cells with 6% PCE, 25% average visible transmittance and a color rendering index close to 100 for power generating window applications. 2012 , 5, 9551		278
763	Oleamide as a self-assembled cathode buffer layer for polymer solar cells: the role of the terminal group on the function of the surfactant. 2012 , 22, 24067		39
762	High-performance polymer solar cells with moderately reduced graphene oxide as an efficient hole transporting layer. 2012 , 105, 96-102		95
761	Surface-initiated poly(3-methylthiophene) as a hole-transport layer for polymer solar cells with high performance. 2012 , 4, 5069-73		47
760	Self-Assembled Poly(ethylene glycol) Buffer Layers in Polymer Solar Cells: Toward Superior Stability and Efficiency. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1354-1360	3.8	40
759	Effects of buffer layer properties and annealing process on bulk heterojunction morphology and organic solar cell performance. 2012 , 22, 14624		39
758	Self-assembly of carboxylated polythiophene nanowires for improved bulk heterojunction morphology in polymer solar cells. 2012 , 22, 11354		24
757	Ionization potential dependent air exposure effect on the MoO ₃ /organic interface energy level alignment. <i>Organic Electronics</i> , 2012 , 13, 2793-2800	3.5	41

- 756 Prominent Short-Circuit Currents of Fluorinated Quinoxaline-Based Copolymer Solar Cells with a Power Conversion Efficiency of 8.0%. **2012**, 24, 4766-4772 315
- 755 Functional monolayers from carbon nanostructures [Fullerenes, carbon nanotubes, and graphene] as novel materials for solar energy conversion. **2012**, 256, 2628-2639 69
- 754 Altering the static dipole on surfaces through chemistry: molecular films of zwitterionic quinonoids. **2012**, 134, 8494-506 35
- 753 Easily Attainable Phenothiazine-Based Polymers for Polymer Solar Cells: Advantage of Insertion of S,S-dioxides into its Polymer for Inverted Structure Solar Cells. **2012**, 45, 1847-1857 48
- 752 Electron injection enhancement by a Cs-salt interlayer in ambipolar organic field-effect transistors and complementary circuits. **2012**, 22, 16979 30
- 751 Self-assembled monolayers made of 6-(5-((6-((5-hexylthiophen-2-yl)ethynyl)-9,10-bis(phenylethynyl)anthracen-2-yl)ethynyl)thiophen-2-yl)hexyl 3-(triethoxysilyl)propylcarbamate for ultrathin film transistors. **2012**, 28, 10948-55 7
- 750 Binding Modes of Fluorinated Benzylphosphonic Acids on the Polar ZnO Surface and Impact on Work Function. *Journal of Physical Chemistry C*, **2012**, 116, 19125-19133 3.8 54
- 749 Oligofluorenes as polymeric model compounds for providing insight into the triplets of ketone and ketylamine derivatives. **2012**, 116, 9305-14 6
- 748 Novel naphtho[1,2-b:5,6-b']dithiophene core linear donor-acceptor conjugated small molecules with thiophene-bridged bithiazole acceptor: design, synthesis, and their application in bulk heterojunction organic solar cells. **2012**, 22, 10840 37
- 747 Phase-controllable copper oxides for an efficient anode interfacial layer in organic light-emitting diodes. **2012**, 22, 2039-2044 14
- 746 Composite films of oxidized multiwall carbon nanotube and poly(3,4-ethylenedioxythiophene): polystyrene sulfonate (PEDOT:PSS) as a contact electrode for transistor and inverter devices. **2012**, 4, 982-9 41
- 745 Significant Improved Performance of Photovoltaic Cells Made from a Partially Fluorinated Cyclopentadithiophene/Benzothiadiazole Conjugated Polymer. **2012**, 45, 5427-5435 173
- 744 Self-Assembled Monolayer Induced Au(111) and Ag(111) Reconstructions: Work Functions and Interface Dipole Formation. *Journal of Physical Chemistry C*, **2012**, 116, 7826-7837 3.8 54
- 743 Multifunctional phosphonic acid self-assembled monolayers on metal oxides as dielectrics, interface modification layers and semiconductors for low-voltage high-performance organic field-effect transistors. **2012**, 14, 14110-26 121
- 742 Comparison of ZnO interlayers in inverted bulk heterojunction solar cells. **2012**, 96, 417-421 16
- 741 Pulsed laser deposition of transparent conductive oxide thin films on flexible substrates. **2012**, 260, 42-46 53
- 740 Effective interfacial layer to enhance efficiency of polymer solar cells via solution-processed fullerene-surfactants. **2012**, 22, 8574 149
- 739 Photovoltaic efficiency enhancement by the generation of an embedded silica-like passivation layer along the P3HT/PCBM interface using an asymmetric block-copolymer additive. **2012**, 24, 6311-7 25

738	Palladium-Mediated Surface-Initiated Kumada Catalyst Polycondensation: A Facile Route Towards Oriented Conjugated Polymers. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 2115-20	4.8	43
737	Tuning of defects in ZnO nanorod arrays used in bulk heterojunction solar cells. 2012 , 7, 655		42
736	Interface engineering for high-performance organic field-effect transistors. 2012 , 14, 14165-80		79
735	Conducting Polymers: Applications in Electronics and Photovoltaics. 2012 ,		1
734	The influence of hydrogenation and oxygen vacancies on molybdenum oxides work function and gap states for application in organic optoelectronics. 2012 , 134, 16178-87		278
733	The role of gap states in the energy level alignment at the organic-organic heterojunction interfaces. 2012 , 14, 14127-41		47
732	Polymer and Nanoparticle-Composite Bistable Devices: Physics of Operation and Initial Applications. 2012 , 291-314		2
731	The modification of indium tin oxide with phosphonic acids: mechanism of binding, tuning of surface properties, and potential for use in organic electronic applications. 2012 , 45, 337-46		238
730	Solid-State Densification of Spun-Cast Self-Assembled Monolayers for Use in Ultra-Thin Hybrid Dielectrics. 2012 , 261, 908-908		12
729	Electrochemically assembled planar hybrid poly(3-methylthiophene)/ZnO nanostructured composites. <i>Electrochimica Acta</i> , 2012 , 81, 83-89	6.7	7
728	Organic field-effect transistors as a test-bed for molecular electronics: A combined study with large-area molecular junctions. <i>Organic Electronics</i> , 2012 , 13, 2502-2507	3.5	20
727	Bright, efficient, deep blue-emissive polymer light-emitting diodes of suitable hole-transport layer and cathode design. <i>Organic Electronics</i> , 2012 , 13, 3067-3073	3.5	6
726	A crystalline D-EA organic small molecule with naphtho[1,2-b:5,6-b']dithiophene-core for solution processed organic solar cells. <i>Organic Electronics</i> , 2012 , 13, 3183-3194	3.5	27
725	Flexible multilevel resistive memory with controlled charge trap B- and N-doped carbon nanotubes. 2012 , 12, 2217-21		156
724	Surface-initiated synthesis of poly(3-methylthiophene) from indium tin oxide and its electrochemical properties. 2012 , 28, 1900-8		56
723	Organic photovoltaic devices with colloidal TiO ₂ nanorods as key functional components. 2012 , 14, 3987-95		21
722	Barrierless hole injection through sub-bandgap occupied states in organic light emitting diodes using substoichiometric MoO _x anode interfacial layer. 2012 , 100, 013311		52
721	Structure-Dependent Contact Barrier Effects in Bottom-Contact Organic Thin-Film Transistors. 2012 , 59, 3382-3388		3

720	Thiophene and Selenophene Donor-Acceptor Polyimides as Polymer Electrets for Nonvolatile Transistor Memory Devices. 2012 , 45, 6946-6956	73
719	Efficient Semitransparent Inverted Polymer Solar Cells With the Anode of Tunable Incident Light Transmittance. 2012 , 33, 1027-1029	6
718	Highly efficient polymer light-emitting diodes using graphene oxide as a hole transport layer. 2012 , 6, 2984-91	113
717	Supramolecular Chemistry for Organic Photovoltaics. 2012 ,	1
716	Significant vertical phase separation in solvent-vapor-annealed poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate) composite films leading to better conductivity and work function for high-performance indium tin oxide-free optoelectronics. 2012 , 4, 2551-60	144
715	Optoelectronic property tailoring of conjugated heterocyclic azomethines [the effect of pyrrole, thiophene and furans. 2012 , 25, 211-221	41
714	Recent development of push-pull conjugated polymers for bulk-heterojunction photovoltaics: rational design and fine tailoring of molecular structures. 2012 , 22, 10416	428
713	Recent advances in solution-processed interfacial materials for efficient and stable polymer solar cells. 2012 , 5, 5994	903
712	Organic thin-film solar cells: Devices and materials. 2012 , 55, 553-578	17
711	Solution-processed small molecule transistors with low operating voltages and high grain-boundary anisotropy. 2012 , 22, 9458	17
710	Graphene-based transparent flexible electrodes for polymer solar cells. 2012 , 22, 24254	90
709	Surface modification using phosphonic acids and esters. 2012 , 112, 3777-807	596
708	Single Crystal X-ray, AFM, NEXAFS, and OFET Studies on Angular Polycyclic Aromatic Silyl-Capped 7,14-Bis(ethynyl)dibenzo[b,def]chrysenes. 2012 , 12, 725-731	28
707	Conjugated Fluorescent Azomethine Copolymers: Opto-Electronic, Halochromic, and Doping Properties. 2012 , 45, 1165-1173	62
706	Solution-processed, nanostructured hybrid solar cells with broad spectral sensitivity and stability. 2012 , 4, 3507-14	51
705	The application of graphene as electrodes in electrical and optical devices. 2012 , 23, 112001	265
704	A ZnO/N-doped carbon nanotube nanocomposite charge transport layer for high performance optoelectronics. 2012 , 22, 12695	78
703	Functional fullerenes for organic photovoltaics. 2012 , 22, 4161	417

702	Amino N-Oxide Functionalized Conjugated Polymers and their Amino-Functionalized Precursors: New Cathode Interlayers for High-Performance Optoelectronic Devices. <i>Advanced Functional Materials</i> , 2012 , 22, 2846-2854	15.6	97
701	Organozinc Compounds as Effective Dielectric Modification Layers for Polymer Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2012 , 22, 4139-4148	15.6	12
700	Electrostatic Self-Assembly Conjugated Polyelectrolyte-Surfactant Complex as an Interlayer for High Performance Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2012 , 22, 3284-3289	15.6	95
699	Optimal Structure for High-Performance and Low-Contact-Resistance Organic Field-Effect Transistors Using Contact-Doped Coplanar and Pseudo-Staggered Device Architectures. <i>Advanced Functional Materials</i> , 2012 , 22, 4577-4583	15.6	48
698	Electrostatically self-assembled nonconjugated polyelectrolytes as an ideal interfacial layer for inverted polymer solar cells. 2012 , 24, 3005-9, 2938		252
697	A Self-Doping, O ₂ -Stable, n-Type Interfacial Layer for Organic Electronics. 2012 , 2, 455-460		70
696	Increasing the Fill Factor of Inverted P3HT:PCBM Solar Cells Through Surface Modification of Al-Doped ZnO via Phosphonic Acid-Anchored C60 SAMs. 2012 , 2, 532-535		108
695	Work Function Control of Interfacial Buffer Layers for Efficient and Air-Stable Inverted Low-Bandgap Organic Photovoltaics. 2012 , 2, 361-368		53
694	Highly Efficient Inverted Polymer Solar Cells Based on an Alcohol Soluble Fullerene Derivative Interfacial Modification Material. 2012 , 24, 1682-1689		100
693	Interfacial modification of organic photovoltaic devices by molecular self-organization. 2012 , 14, 3713-24		44
692	Charge transport characteristics in P3HT:PCBM organic blends under illumination: Influence of metal work functions. 2012 , 529, 64-68		16
691	Efficient bulk heterojunction solar cells based on D _A copolymers as electron donors and PC70BM as electron acceptor. 2012 , 135, 25-31		9
690	Effect of vertical morphology on the performance of silole-containing low-bandgap inverted polymer solar cells. 2012 , 97, 97-101		20
689	Interface modification of a highly air-stable polymer solar cell. 2012 , 98, 351-356		38
688	High efficiency inverted polymer solar cells with the sol-gel derived vanadium oxide interlayer. 2012 , 520, 5400-5404		16
687	Nanostructure effect of V ₂ O ₅ buffer layer on performance of polymer-fullerene devices. <i>Organic Electronics</i> , 2012 , 13, 7-12	3.5	27
686	The effect of processing additive on aggregated fullerene derivatives in bulk-heterojunction polymer solar cells. <i>Organic Electronics</i> , 2012 , 13, 570-578	3.5	22
685	High performance organic light emitting diodes using substoichiometric tungsten oxide as efficient hole injection layer. <i>Organic Electronics</i> , 2012 , 13, 796-806	3.5	52

684	Forming semiconductor/dielectric double layers by one-step spin-coating for enhancing the performance of organic field-effect transistors. <i>Organic Electronics</i> , 2012 , 13, 1146-1151	3-5	33
683	Combination of molecular, morphological, and interfacial engineering to achieve highly efficient and stable plastic solar cells. 2012 , 24, 549-53		151
682	Stability of polymer solar cells. 2012 , 24, 580-612		1149
681	High-performance inverted polymer solar cells with solution-processed titanium chelate as electron-collecting layer on ITO electrode. 2012 , 24, 1476-81		289
680	Enhanced Open-Circuit Voltage in High Performance Polymer/Fullerene Bulk-Heterojunction Solar Cells by Cathode Modification with a C60 Surfactant. 2012 , 2, 82-86		180
679	Luminescent and photovoltaic properties of poly(9,9-dioctylfluorene-co-bithiophene) in organic electronic devices. 2012 , 57, 970-975		9
678	Phosphonate-functionalized polyfluorene and its application in organic optoelectronic devices. 2012 , 68, 829-845		6
677	Efficiency enhancement of polymer solar cells by applying poly(vinylpyrrolidone) as a cathode buffer layer via spin coating or self-assembly. 2013 , 5, 26-34		57
676	Low-temperature solution-processed hydrogen molybdenum and vanadium bronzes for an efficient hole-transport layer in organic electronics. 2013 , 25, 2051-5		230
675	Enhanced efficiency of single and tandem organic solar cells incorporating a diketopyrrolopyrrole-based low-bandgap polymer by utilizing combined ZnO/polyelectrolyte electron-transport layers. 2013 , 25, 4783-8		109
674	A combination of Al-doped ZnO and a conjugated polyelectrolyte interlayer for small molecule solution-processed solar cells with an inverted structure. 2013 , 1, 11306		43
673	A new ladder-type benzodi(cyclopentadithiophene)-based donor-acceptor polymer and a modified hole-collecting PEDOT:PSS layer to achieve tandem solar cells with an open-circuit voltage of 1.62 V. 2013 , 49, 7702-4		22
672	Solution processed Al-doped ZnO nanoparticles/TiO _x composite for highly efficient inverted organic solar cells. 2013 , 5, 8440-5		14
671	Recent advances in water/alcohol-soluble π -conjugated materials: new materials and growing applications in solar cells. 2013 , 42, 9071-104		400
670	The impact of tetrahedral capping groups and device processing conditions on the crystal packing, thin film features and OFET hole mobility of 7,14-bis(ethynyl)dibenzo[b,def]chrysenes. 2013 , 1, 6299		16
669	Thin-film metal oxides in organic semiconductor devices: their electronic structures, work functions and interfaces. 2013 , 5, e55-e55		248
668	Improving the efficiency of ZnO-based organic solar cell by self-assembled monolayer assisted modulation on the properties of ZnO acceptor layer. 2013 , 5, 6946-50		20
667	Synthesis and optoelectronic properties of amino-functionalized carbazole-based conjugated polymers. 2013 , 56, 1119-1128		14

666	Efficient polymer solar cells with a solution-processed gold chloride as an anode interfacial modifier. 2013 , 102, 163302		11
665	Low-temperature, solution-processed, layered V2O5 hydrate as the hole-transport layer for stable organic solar cells. 2013 , 6, 3088		148
664	Gate field induced ordered electric dipoles in a polymer dielectric for low-voltage operating organic thin-film transistors. 2013 , 3, 20267		9
663	The impact of fluorination on the structure and properties of self-assembled monolayer films. 2013 , 9, 6356		50
662	Optimization of Polymer Solar Cells Based on the Conjugated Copolymer of Poly(phenylenevinylene-alt-4,7-diphenyl-2,1,3-benzothiadiazole) (PP-DBT). 2013 , 214, 1836-1844		3
661	Work-function modification of the (111) gold surface upon deposition of self-assembled monolayers based on alkanethiol derivatives. 2013 , 189, 32-38		19
660	Acid-functionalized fullerenes used as interfacial layer materials in inverted polymer solar cells. <i>Organic Electronics</i> , 2013 , 14, 3138-3145	3.5	22
659	Performance enhancement of organic light-emitting diodes by chlorinated indium tin oxide in the presence of hydrogen peroxide. <i>Organic Electronics</i> , 2013 , 14, 882-887	3.5	8
658	25th anniversary article: key points for high-mobility organic field-effect transistors. 2013 , 25, 6158-83		598
657	Solution-processed hybrid cathode interlayer for inverted organic solar cells. 2013 , 5, 10428-32		31
656	Self-assembly of interfacial and photoactive layers via one-step solution processing for efficient inverted organic solar cells. 2013 , 5, 11587-91		45
655	Water-soluble CdTe quantum dots as an anode interlayer for solution-processed near infrared polymer photodetectors. 2013 , 5, 12474-9		20
654	Extension of stability in organic photovoltaic cells using UV/ozone-treated graphene sheets. 2013 , 109, 148-154		37
653	Region-selective self-assembly of functionalized carbon allotropes from solution. 2013 , 7, 11427-34		20
652	Enhancement of the work function of indium tin oxide by surface modification using caesium fluoride. 2013 , 46, 475102		12
651	Vapor-deposited hydrogenated and oxygen-deficient molybdenum oxide thin films for application in organic optoelectronics. 2013 , 230, 202-207		21
650	Solution-processed-MoO3 hole extraction layer on oxygen plasma-treated indium tin oxide in organic photovoltaics. 2013 , 116, 94-101		27
649	Enhancing the incorporation compatibility of molybdenum oxides in organic light emitting diodes with gap state formations. 2013 , 114, 063710		14

648	Self-assembly of semiconductor/insulator interfaces in one-step spin-coating: a versatile approach for organic field-effect transistors. 2013 , 15, 7917-33		47
647	Progress in Modification of Indium-Tin Oxide/Organic Interfaces for Organic Light-Emitting Diodes. 2013 , 38, 318-352		38
646	Conjugated polymeric zwitterions as efficient interlayers in organic solar cells. 2013 , 25, 6868-73		82
645	Interface control of semiconducting metal oxide layers for efficient and stable inverted polymer solar cells with open-circuit voltages over 1.0 volt. 2013 , 5, 9015-25		51
644	New solution-processable small molecules as hole-transporting layer in efficient polymer solar cells. 2013 , 1, 14253		24
643	Tuning Contact Recombination and Open-Circuit Voltage in Polymer Solar Cells via Self-Assembled Monolayer Adsorption at the Organic/Metal Oxide Interface. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20474-20484	3.8	35
642	Synthesis of polymeric semiconductors by a surface-initiated approach. 2013 , 3, 23909		23
641	Competing Effects of Fluorination on the Orientation of Aromatic and Aliphatic Phosphonic Acid Monolayers on Indium Tin Oxide. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15139-15147	3.8	36
640	18.1: Invited Paper: Roll-to-Roll Manufacturing of Printed OLEDs. 2013 , 44, 192-195		28
639	Nonvolatile transistor memory devices using high dielectric constant polyimide electrets. 2013 , 1, 3235		52
638	Effects of self-assembled monolayer structural order, surface homogeneity and surface energy on pentacene morphology and thin film transistor device performance. 2013 , 1, 101-113		59
637	Concentration effect of multiwalled carbon nanotube and poly(3, 4-ethylenedioxythiophene) polymerized with poly(4-styrenesulfonate) conjugated film on the catalytic activity for counter electrode in dye sensitized solar cells. 2013 , 50, 692-700		32
636	Unparalleled fluorescence of a polyazomethine prepared from the self-condensation of an automer and its potential use as a fluorimetric sensor for explosive detection. 2013 , 4, 250-254		20
635	Nano film processor based on the lateral self-oxidation of a nanoscale aluminum film. <i>Electrochimica Acta</i> , 2013 , 89, 152-156	6.7	9
634	Texture design of electrodes for efficiency enhancement of organic solar cells. 2013 , 1, 2379		23
633	All-solution-processed inverted polymer solar cells with low temperature, water-processable hybrid electron-collecting layers. 2013 , 1, 2030-2038		9
632	Enhanced performance of polymer solar cells using solution-processed tetra-n-alkyl ammonium bromides as electron extraction layers. 2013 , 1, 2582		34
631	Efficient and stable polymer solar cells with solution-processed molybdenum oxide interfacial layer. 2013 , 1, 657-664		109

630	Effect of ultraviolet ozone on ITO/P3HT interface for PEDOT:PSS-free polymer solar cells. 2013 , 109, 240-245		15
629	A small-molecule zwitterionic electrolyte without a delocalized unit as a charge-injection layer for high-performance PLEDs. 2013 , 52, 3417-20		50
628	Aluminum phthalocyanine chloride as a hole injection enhancer in organic light-emitting diodes. 2013 , 89, 22-25		25
627	The physical/chemical properties and electrode performance variations of SWNT films in consequence of solution based surfactant elimination processes. <i>Organic Electronics</i> , 2013 , 14, 2962-2972 ²⁵		9
626	First-principles thermodynamics of metal-oxide surfaces and interfaces: A case study review. 2013 , 23, 180-192		16
625	A new alcohol-soluble electron-transporting molecule for efficient inverted polymer solar cells. <i>Organic Electronics</i> , 2013 , 14, 2164-2171	3.5	8
624	Application of phosphonic acid self-assembled monolayer in organic field-effect transistors. 2013 , 282, 487-491		10
623	Electrical properties of organic field effect transistors with thin graphite/metal electrode directly grown by ICP-CVD at low temperatures. 2013 , 13, 1275-1279		1
622	Recent advances in organic transistor printing processes. 2013 , 5, 2302-15		278
621	Investigation of a Conjugated Polyelectrolyte Interlayer for Inverted Polymer:Fullerene Solar Cells. 2013 , 3, 718-723		87
620	High-efficiency polymer solar cells enhanced by solvent treatment. 2013 , 25, 1646-52		421
619	Efficient modification of metal oxide surfaces with phosphonic acids by spray coating. 2013 , 29, 3935-42		52
618	Halofluorocarbons, Hydrofluorocarbons, and Related Compounds. 2013 , 245-298		4
617	MoO ₃ /Au composite interfacial layer for high efficiency and air-stable organic solar cells. <i>Organic Electronics</i> , 2013 , 14, 797-803	3.5	45
616	Novel cathode interlayers based on neutral alcohol-soluble small molecules with a triphenylamine core featuring polar phosphonate side chains for high-performance polymer light-emitting and photovoltaic devices. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 595-603	4.8	41
615	Enhanced performance in inverted polymer solar cells via solution process: Morphology controlling of PEDOT:PSS as anode buffer layer by adding surfactants. <i>Organic Electronics</i> , 2013 , 14, 1629-1635	3.5	24
614	Unique role of self-assembled monolayers in carbon nanomaterial-based field-effect transistors. 2013 , 9, 1144-59		33
613	Amphiphilic semiconducting copolymer as compatibility layer for printing polyelectrolyte-gated OFETs. <i>Organic Electronics</i> , 2013 , 14, 790-796	3.5	10

612	Optimization of polymer photovoltaic cells with bulk heterojunction layers hundreds of nanometers thick: modifying the morphology and cathode interface. 2013 , 6, 2203		26
611	Critical Impact of Gate Dielectric Interfaces on the Contact Resistance of High-Performance Organic Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12337-12345	3.8	81
610	High-performance perovskite-polymer hybrid solar cells via electronic coupling with fullerene monolayers. 2013 , 13, 3124-8		545
609	Doping of fullerenes via anion-induced electron transfer and its implication for surfactant facilitated high performance polymer solar cells. 2013 , 25, 4425-30		220
608	Dipole-Controlled Energy Level Alignment at Dielectric Interfaces in Organic Field-Effect Transistors. 2013 , 273-293		
607	Solution-processible highly conducting fullerenes. 2013 , 25, 2457-61		113
606	High-efficiency ITO-free polymer solar cells using highly conductive PEDOT:PSS/surfactant bilayer transparent anodes. 2013 , 6, 1956		188
605	Advanced Heterojunction Structure of Polymer Photovoltaic Cell Generating High Photocurrent with Internal Quantum Efficiency Approaching 100%. 2013 , 3, 1135-1142		28
604	Interface engineering to enhance the efficiency of conventional polymer solar cells by alcohol-/water-soluble C60 materials doped with alkali carbonates. 2013 , 5, 5122-8		21
603	Annealing-Induced Changes in the Molecular Orientation of Poly-3-hexylthiophene at Buried Interfaces. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15213-15220	3.8	38
602	Organic Optoelectronic Devices Containing Water/Alcohol-Soluble Conjugated Polymers and Conjugated Polyelectrolytes*. 2013 , 345-388		1
601	Interface Engineering for High Performance Bulk-Heterojunction Polymeric Solar Cells. 2013 , 43-79		5
600	A series of new medium-bandgap conjugated polymers based on naphtho[1,2-c:5,6-c']bis(2-octyl-[1,2,3]triazole) for high-performance polymer solar cells. 2013 , 25, 3683-8		118
599	Structure optimization of organic planar heterojunction solar cells. 2013 , 46, 195105		9
598	Formation of Nanostructured Fullerene Interlayer through Accelerated Self-Assembly and Cross-Linking of Trichlorosilane Moieties Leading to Enhanced Efficiency of Photovoltaic Cells. 2013 , 46, 4781-4789		20
597	Water-processable electron-collecting layers of a hybrid poly(ethylene oxide): Caesium carbonate composite for flexible inverted polymer solar cells. 2013 , 108, 1-8		17
596	Work-function modification of Au and Ag surfaces upon deposition of self-assembled monolayers: influence of the choice of the theoretical approach and the thiol decomposition scheme. 2013 , 14, 2939-46		12
595	Photoreaction of matrix-isolated dihydroazulene-functionalized molecules on Au{111}. 2013 , 13, 337-43		19

594	Optimization of Temperature-Mediated Organic Semiconducting Crystals on Soft Polymer-Treated Gate Dielectrics. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25290-25297	3.8	8
593	Conjugated polyelectrolyte and zinc oxide stacked structure as an interlayer in highly efficient and stable organic photovoltaic cells. 2013 , 1, 6446		115
592	Isomeric carbazolocarbazoles: synthesis, characterization and comparative study in Organic Field Effect Transistors. 2013 , 1, 1959		32
591	Oxygen attachment on alkanethiolate SAMs induced by low-energy electron irradiation. 2013 , 29, 5222-9		8
590	Paramagnetic Character in Thin Films of Metal-Free Organic Magnets Deposited on TiO ₂ (110) Single Crystals. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 26675-26679	3.8	11
589	Reducing leakage currents in n-channel organic field-effect transistors using molecular dipole monolayers on nanoscale oxides. 2013 , 5, 7025-32		18
588	Photoresponsive molecules in well-defined nanoscale environments. 2013 , 25, 302-12		53
587	Enhanced performance of polymer solar cell with ZnO nanoparticle electron transporting layer passivated by in situ cross-linked three-dimensional polymer network. 2013 , 24, 484012		28
586	Impact of molecule-dipole orientation on energy level alignment at the submolecular scale. 2013 , 87,		30
585	Efficient inverted polymer solar cells with thermal-evaporated and solution-processed small molecular electron extraction layer. 2013 , 102, 133303		10
584	Enhanced performance in polymer solar cells by the use of a halogenated indium tin oxide anode. 2013 , 102, 053302		5
583	Optimized inverted polymer solar cells incorporating Cs ₂ CO ₃ -doped C ₆₀ as electron transport layer. 2013 , 102, 193305		20
582	Effect of MoO ₃ -doped PTCDA as buffer layer on the performance of CuPc/C ₆₀ solar cells. 2013 , 210, 1178-1182		1
581	Flexible high-performance all-inkjet-printed inverters: organo-compatible and stable interface engineering. 2013 , 25, 4773-7		49
580	A Small-Molecule Zwitterionic Electrolyte without a Delocalized Unit as a Charge-Injection Layer for High-Performance PLEDs. 2013 , 125, 3501-3504		2
579	An electronic structure reinterpretation of the organic semiconductor/electrode interface based on argon gas cluster ion beam sputtering investigations. 2013 , 114, 013703		21
578	A novel approach for the characterization of a bilayer of phenyl-c71-butyric-acid-methyl ester and pentacene using ultraviolet photoemission spectroscopy and argon gas cluster ion beam sputtering process. 2013 , 114, 094510		12
577	Evaluation of intrinsic charge carrier transport at insulator-semiconductor interfaces probed by a non-contact microwave-based technique. 2013 , 3, 3182		36

576	Effect of annealing on performance of PEDOT:PSS/n-GaN Schottky solar cells. 2014 , 23, 077303		7
575	Fluorinated and hydrogenated self-assembled monolayers (SAMs) on anodes: Effects of SAM chemistry on device characteristics of polymer solar cells. <i>Organic Electronics</i> , 2014 , 15, 3333-3340	3.5	10
574	Facile modification of Cu source/drain (S/D) electrodes for high-performance, low-voltage n-channel organic thin film transistors (OTFTs) based on C60. <i>Organic Electronics</i> , 2014 , 15, 3259-3267	3.5	4
573	SeP hole injection layer for devices based on organic materials. 2014 , 47, 015304		5
572	Inverted polymer solar cells comprising a solution-processed work-function tunable hybrid electron-collecting layer. 2014 , 6, 043108		2
571	Lithium fluoride injection layers can form quasi-Ohmic contacts for both holes and electrons. 2014 , 105, 123302		15
570	Over 1.1 eV Workfunction Tuning of Cesium Intercalated Metal Oxides for Functioning as Both Electron and Hole Transport Layers in Organic Optoelectronic Devices. <i>Advanced Functional Materials</i> , 2014 , 24, 7348-7356	15.6	37
569	Spray coated indium-tin-oxide-free organic photodiodes with PEDOT:PSS anodes. 2014 , 4, 107132		21
568	Improved efficiency of P3HT:PCBM solar cells by incorporation of silver oxide interfacial layer. 2014 , 116, 044905		18
567	Solution-processed high-performance orange phosphorescent and white PLEDs with a high color-rendering index from an unprecedented stacked and conjugated host material. 2014 , 52, 587-595		4
566	Low-cost electrochemical treatment of indium tin oxide anodes for high-efficiency organic light-emitting diodes. 2014 , 104, 043306		6
565	Progress in the Synthesis of Poly (3-hexylthiophene). 2014 , 1-38		9
564	Semi-conjugated acceptor-based polyimides as electrets for nonvolatile transistor memory devices. 2014 , 5, 6834-6846		14
563	Amine-based polar solvent treatment for highly efficient inverted polymer solar cells. 2014 , 26, 494-500		139
562	Direct comparative study on the energy level alignments in unoccupied/occupied states of organic semiconductor/electrode interface by constructing in-situ photoemission spectroscopy and Ar gas cluster ion beam sputtering integrated analysis system. 2014 , 116, 153702		13
561	Interfacial Layers in Organic Solar Cells. 2014 , 121-176		2
560	Ultrathin Anode Buffer Layer for Enhancing Performance of Polymer Solar Cells. 2014 , 2014, 1-6		6
559	The effect of carbon contamination and argon ion sputtering on the work function of chlorinated indium tin oxide. 2014 , 14, 472-475		13

558	Novel aminoalkyl-functionalized blue-, green- and red-emitting polyfluorenes. <i>Organic Electronics</i> , 2014 , 15, 850-857	3.5	10
557	Performance and stability studies of inverted polymer solar cells with TiO ₂ film as a buffer layer. 2014 , 114, 429-434		11
556	Photoluminescence and Raman spectroscopy studies of the photodegradation of poly(3-octylthiophene). 2014 , 25, 185-189		12
555	Large work function shift of organic semiconductors inducing enhanced interfacial electron transfer in organic optoelectronics enabled by porphyrin aggregated nanostructures. 2014 , 7, 679-693		39
554	High efficiency solution processed inverted white organic light emitting diodes with a cross-linkable amino-functionalized polyfluorene as a cathode interlayer. 2014 , 2, 3270-3277		39
553	An inkjet-printed TTF/CNQ nanoweb as an effective modification layer for high mobility organic field-effect transistors. 2014 , 2, 1413		12
552	Formation and carrier transport properties of single-layer graphene/poly (methyl methacrylate) nanocomposite for resistive memory application. 2014 , 101, 246-249		6
551	Highly Efficient Inverted Organic Solar Cells Through Material and Interfacial Engineering of Indacenodithieno[3,2-b]thiophene-Based Polymers and Devices. <i>Advanced Functional Materials</i> , 2014 , 24, 1465-1473	15.6	120
550	Fluorene-based cathode interlayer polymers for high performance solution processed organic optoelectronic devices. <i>Organic Electronics</i> , 2014 , 15, 1244-1253	3.5	32
549	Recent advances in polymer solar cells: realization of high device performance by incorporating water/alcohol-soluble conjugated polymers as electrode buffer layer. 2014 , 26, 1006-24		208
548	Investigation into the effect of post-annealing on inverted polymer solar cells. 2014 , 120, 131-135		4
547	Replacing the metal oxide layer with a polymer surface modifier for high-performance inverted polymer solar cells. 2014 , 4, 4791-4795		33
546	25th anniversary article: Chemically modified/doped carbon nanotubes & graphene for optimized nanostructures & nanodevices. 2014 , 26, 40-66		432
545	Water/Alcohol-Soluble Conjugated Polymer-Based Interlayers for Polymer Solar Cells. 2014 , 301-318		0
544	Conjugated-polymer grafting on inorganic and organic substrates: A new trend in organic electronic materials. 2014 , 39, 1847-1877		64
543	Enhancing the short-circuit current, efficiency of inverted organic solar cells using tetra sulfonic copper phthalocyanine (TS-CuPc) as electron transporting layer. <i>Organic Electronics</i> , 2014 , 15, 913-919	3.5	17
542	Self-assembled monolayer modified ITO in P3HT:PC61BM organic solar cells with improved efficiency. 2014 , 124, 98-102		18
541	Low-Temperature Combustion-Synthesized Nickel Oxide Thin Films as Hole-Transport Interlayers for Solution-Processed Optoelectronic Devices. 2014 , 4, 1301460		97

540	Fabrication of Organic Thin-Film Transistors on Three-Dimensional Substrates Using Free-Standing Polymeric Masks Based on Soft Lithography. <i>Advanced Functional Materials</i> , 2014 , 24, 2404-2408	15.6	22
539	Solution-Processed Copper Iodide as an Inexpensive and Effective Anode Buffer Layer for Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16806-16812	3.8	69
538	Polymer solar cells with electrodeposited CuSCN nanowires as new efficient hole transporting layer. 2014 , 120, 163-167		44
537	A morphology control layer of a pyrene dimer enhances the efficiency in small molecule organic photovoltaic cells. 2014 , 2, 501-509		10
536	Adsorption studies of a phosphonic acid on ITO: film coverage, purity, and induced electronic structure changes. 2014 , 16, 2874-81		20
535	Highly efficient polymer-based optoelectronic devices using PEDOT:PSS and a GO composite layer as a hole transport layer. 2014 , 6, 2067-73		78
534	Bandgap Tunable Zn _{1-x} Mg _x O Thin Films as Highly Transparent Cathode Buffer Layers for High-Performance Inverted Polymer Solar Cells. 2014 , 4, 1301404		78
533	Study on the AlP ₃ H ₇ T:PCBM interfaces in electrical stressed polymer solar cell by X-ray photoelectron spectroscopy. 2014 , 123, 1-6		6
532	From lab to fab: how must the polymer solar cell materials design change? An industrial perspective. 2014 , 7, 925		268
531	Roles of interfacial modifiers in hybrid solar cells: inorganic/polymer bilayer vs inorganic/polymer:fullerene bulk heterojunction. 2014 , 6, 803-10		21
530	Efficiency improvement of organic solar cells with imprint of nanostructures by capillary force lithography. 2014 , 120, 566-571		11
529	Soluble transition metal oxide/polymeric acid composites for efficient hole-transport layers in polymer solar cells. 2014 , 6, 951-7		24
528	In situ doping and crosslinking of fullerenes to form efficient and robust electron-transporting layers for polymer solar cells. 2014 , 7, 638-643		45
527	Improved power conversion efficiency by insertion of RGO//TiO ₂ composite layer as optical spacer in polymer bulk heterojunction solar cells. <i>Organic Electronics</i> , 2014 , 15, 348-355	3.5	20
526	Targeted deposition of a conducting polymer based on bipolar electrochemistry. <i>Synthetic Metals</i> , 2014 , 198, 274-276	3.6	9
525	Optimized grafting density of end-functionalized polymers to polar dielectric surfaces for solution-processed organic field-effect transistors. 2014 , 6, 20444-51		21
524	Structural influences on charge carrier dynamics for small-molecule organic photovoltaics. 2014 , 116, 013105		6
523	Solution-processable LaZrO _x /SiO ₂ gate dielectric at low temperature of 180 °C for high-performance metal oxide field-effect transistors. 2014 , 6, 18693-703		48

522	Optical gap in herringbone and stacked crystals of [1]benzothieno[3,2-b]benzothiophene and its brominated derivative. 2014 , 16, 7389-7392	30
521	Nonvolatile transistor memory devices based on high-k electrets of polyimide/TiO ₂ hybrids. 2014 , 5, 6718-6727	21
520	Polythiophenoazomethines alternate photoactive materials for organic photovoltaics. 2014 , 2, 15620-15626	12
519	A solution-processed barium hydroxide modified aluminum doped zinc oxide layer for highly efficient inverted organic solar cells. 2014 , 2, 18917-18923	40
518	Significance of ions with an ordered arrangement for enhancing the electron injection/extraction in polymer optoelectronic devices. 2014 , 2, 4805-4811	8
517	Effects of ultraviolet soaking on surface electronic structures of solution processed ZnO nanoparticle films in polymer solar cells. 2014 , 2, 17676-17682	39
516	Easily-accessible fullereneol as a cathode buffer layer for inverted organic photovoltaic devices. 2014 , 4, 25886	17
515	Polymer nanofibers: preserving nanomorphology in ternary blend organic photovoltaics. 2014 , 16, 23829-36	9
514	Investigation of in situ annealing on poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate): towards all-solution-processed inverted polymer solar cells. 2014 , 4, 16464	13
513	Solution processed and self-assembled polymerizable fullerenes/metal oxide as an interlayer for high efficient inverted polymer solar cells. 2014 , 2, 10282-10290	10
512	Efficient preparation of ultralarge graphene oxide using a PEDOT:PSS/GO composite layer as hole transport layer in polymer-based optoelectronic devices. 2014 , 4, 55067-55076	65
511	Work function shifts of a zinc oxide surface upon deposition of self-assembled monolayers: a theoretical insight. 2014 , 16, 20887-99	29
510	Graphene oxide as an effective interfacial layer for enhanced graphene/silicon solar cell performance. 2014 , 2, 7715-7721	54
509	High-performance polymer solar cells with radiation-induced and reduction-controllable reduced graphene oxide as an advanced hole transporting material. 2014 , 79, 321-329	25
508	Application of biuret, dicyandiamide, or urea as a cathode buffer layer toward the efficiency enhancement of polymer solar cells. 2014 , 6, 4329-37	25
507	Rapid, facile synthesis of conjugated polymer zwitterions in ionic liquids. 2014 , 5, 2368-2373	15
506	Contactless charge carrier mobility measurement in organic field-effect transistors. <i>Organic Electronics</i> , 2014 , 15, 2855-2861	3.5 2
505	Structure Tuning of Crown Ether Grafted Conjugated Polymers as the Electron Transport Layer in Bulk-Heterojunction Polymer Solar Cells for High Performance. <i>Advanced Functional Materials</i> , 2014 , 24, 6811-6817	15.6 31

504	Atomic-Scale Understanding of the Interaction of Poly(3-hexylthiophene) with the NiO (100) Surface: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20298-20305	3.8	10
503	Degradation of self-assembled monolayers in organic photovoltaic devices. <i>Organic Electronics</i> , 2014 , 15, 3624-3631	3.5	7
502	Conductive water/alcohol-soluble neutral fullerene derivative as an interfacial layer for inverted polymer solar cells with high efficiency. 2014 , 6, 14189-95		21
501	Enhanced performance of polymer solar cells with PSSA/PANI/Graphene oxide composite as hole transport layer. 2014 , 130, 599-604		31
500	Highly flexible, electrically driven, top-emitting, quantum dot light-emitting stickers. 2014 , 8, 8224-31		112
499	Interface dipole engineering at buried organic/organic semiconductor heterojunctions. <i>Organic Electronics</i> , 2014 , 15, 2360-2366	3.5	14
498	Control of active semiconducting layer packing in organic thin film transistors through synthetic tailoring of dielectric materials. 2014 , 4, 29383-29392		3
497	Self-Assembled Conjugated Polyelectrolyte/Ink Liquid Crystal Complex as an Interlayer for Polymer Solar Cells: Achieving Performance Enhancement via Rapid Liquid Crystal-Induced Dipole Orientation. 2014 , 47, 1623-1632		37
496	Colloidal Indium-Doped Zinc Oxide Nanocrystals with Tunable Work Function: Rational Synthesis and Optoelectronic Applications. 2014 , 26, 5169-5178		62
495	Systematic investigation of surface modification by organosiloxane self-assembled on indium-tin oxide for improved hole injection in organic light-emitting diodes. 2014 , 6, 4570-7		14
494	Interplay of Optical, Morphological, and Electronic Effects of ZnO Optical Spacers in Highly Efficient Polymer Solar Cells. 2014 , 4, 1400805		69
493	Efficient planar-heterojunction perovskite solar cells achieved via interfacial modification of a sol-gel ZnO electron collection layer. 2014 , 2, 17291-17296		236
492	Conventional polymer solar cells with power conversion efficiencies increased to >9% by a combination of methanol treatment and an anionic conjugated polyelectrolyte interface layer. 2014 , 4, 50988-50992		13
491	Self-assembled monolayers on gold generated from terminally perfluorinated alkanethiols bearing propyl vs. ethyl hydrocarbon spacers. 2014 , 168, 128-136		9
490	Fluorine-functionalized and simultaneously reduced graphene oxide as a novel hole transporting layer for highly efficient and stable organic photovoltaic cells. 2014 , 6, 7183-7		67
489	Interface control in organic electronics using mixed monolayers of carboranethiol isomers. 2014 , 14, 2946-51		75
488	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
487	Organic semiconductors for device applications: current trends and future prospects. 2014 , 34, 279-338		38

486	Efficient zinc phthalocyanine/C60 heterojunction photovoltaic devices employing tetracene anode interfacial layers. 2014 , 6, 7254-9		16
485	Interface engineering to control magnetic field effects of organic-based devices by using a molecular self-assembled monolayer. 2014 , 8, 7192-201		17
484	Organic photovoltaic with PEDOT:PSS and V2O5 mixture as hole transport layer. 2014 , 120, 238-243		48
483	Enhanced efficiency and stability of polymer solar cells with TiO2 nanoparticles buffer layer. <i>Organic Electronics</i> , 2014 , 15, 835-843	3.5	57
482	Vapor coating method using small-molecule organic surface modifiers to replace N-type metal oxide layers in inverted polymer solar cells. 2014 , 6, 6504-9		4
481	Improved homogeneity and surface coverage of graphene oxide layers fabricated by horizontal-dip-coating for solution-processable organic semiconducting devices. 2014 , 2, 2622		26
480	Efficiency boosting of inverted polymer solar cells with a polyvinylpyrrolidone-modified Al-doped ZnO electron transport layer. 2014 , 128, 307-312		12
479	High performance organic thin film transistors using chemically modified bottom contacts and dielectric surfaces. <i>Organic Electronics</i> , 2014 , 15, 2073-2078	3.5	10
478	Enhanced performance of polymer solar cells with imprinted nanostructures on the active layer. 2014 , 564, 384-389		11
477	Janus microspheres for visual assessment of molecular interconnects. 2014 , 20, 1263-6		16
476	Performance improvement in polymeric thin film transistors using chemically modified both silver bottom contacts and dielectric surfaces. 2015 , 24, 096803		1
475	Metal chloride-treated graphene oxide to produce high-performance polymer solar cells. 2015 , 107, 023301		14
474	Tetra-methyl substituted copper (II) phthalocyanine as a hole injection enhancer in organic light-emitting diodes. 2015 , 5, 107205		16
473	Photogeneration and enhanced charge transport in aligned smectic liquid crystalline organic semiconductor. 2015 , 118, 135702		9
472	Overcoming the thickness paradox: Systematical optimization of inverted polymer solar cells. 2015 , 15, 1364-1369		1
471	Regular Energetics at Conjugated Electrolyte/Electrode Modifier for Organic Electronics and their Implications on Design Rules. 2015 , 2, 1500204		33
470	P-139: Improved Power Efficiency of Organic Light-Emitting Diodes using Solution-Processed CuSCN Hole Injection Layer. 2015 , 46, 1684-1686		1
469	Enhanced Performance of Organic Solar Cells with Increased End Group Dipole Moment in Indacenodithieno[3,2-b]thiophene-Based Molecules. <i>Advanced Functional Materials</i> , 2015 , 25, 4889-4897 ^{15.6}		54

468	Functionalization of Reactive End Groups in Surface-Initiated Kumada Catalyst-Transfer Polycondensation. 2015 , 351, 27-36		3
467	Amine-Based Interfacial Molecules for Inverted Polymer-Based Optoelectronic Devices. 2015 , 27, 3553-9		69
466	A Review on the Efficiency of Graphene-Based BHJ Organic Solar Cells. 2015 , 2015, 1-15		20
465	Optimization of the zinc oxide electron transport layer in P3HT:PC61BM based organic solar cells by annealing and yttrium doping. 2015 , 5, 45586-45591		11
464	Solution-processed zinc oxide/polyethylenimine nanocomposites as tunable electron transport layers for highly efficient bulk heterojunction polymer solar cells. 2015 , 7, 6273-81		102
463	Effect of chemically converted graphene as an electrode interfacial modifier on device-performances of inverted organic photovoltaic cells. 2015 , 30, 065008		1
462	Development of Active Materials and Interface Materials for High Performance Bulk-Heterojunction Polymer Solar Cells. 2015 , 191-219		
461	Low dark current inverted organic photodetectors employing MoO _x /Al cathode interlayer. <i>Organic Electronics</i> , 2015 , 24, 176-181	3.5	19
460	Response enhancement mechanism of NO ₂ gas sensing in ultrathin pentacene field-effect transistors. <i>Organic Electronics</i> , 2015 , 24, 96-100	3.5	48
459	Synthesis and Performance of New Organic Dyes and Functional Fullerenes for Organic Solar Cells. 2015 , 193-236		1
458	Recent progress and perspective in solution-processed Interfacial materials for efficient and stable polymer and organometal perovskite solar cells. 2015 , 8, 1160-1189		637
457	Rational design of two-dimensional molecular donor-acceptor nanostructure arrays. 2015 , 7, 4306-24		24
456	Efficiency Improvement in Polymer Light-Emitting Diodes by Bar-Field Effect of Gold Nanoparticles. 2015 , 32, 686-692		24
455	An alcohol-soluble perylene diimide derivative as cathode interfacial layer for PDI-based nonfullerene organic solar cells. 2015 , 469, 326-332		15
454	Solution-processable polymeric solar cells: A review on materials, strategies and cell architectures to overcome 10%. <i>Organic Electronics</i> , 2015 , 19, 34-60	3.5	201
453	Stable organic photovoltaic with PEDOT:PSS and MoOX mixture anode interfacial layer without encapsulation. <i>Organic Electronics</i> , 2015 , 19, 140-146	3.5	12
452	Polymeric and Small-Molecule Semiconductors for Organic Field-Effect Transistors. 2015 , 1-100		6
451	Modulating the metal/organic interface via CuTCNQ decorated layer toward high performance bottom-contact single-crystal transistors. 2015 , 58, 1027-1031		2

450	Fluorene based donor-acceptor polymer electrets for nonvolatile organic transistor memory device applications. 2015 , 53, 602-614	18
449	Organic photovoltaic cells: from performance improvement to manufacturing processes. 2015 , 11, 2228-46	57
448	Improving the conductivity of PEDOT:PSS hole transport layer in polymer solar cells via copper(II) bromide salt doping. 2015 , 7, 1439-48	65
447	Polymer homo-tandem solar cells with best efficiency of 11.3%. 2015 , 27, 1767-73	386
446	Enhanced efficiency in polymer solar cells via hydrogen plasma treatment of ZnO electron transport layers. 2015 , 3, 3719-3725	15
445	Significant Enhancement of the Detectivity of Polymer Photodetectors by Using Electrochemically Deposited Interfacial Layers of Crosslinked Polycarbazole and Carbazole-Tethered Gold Nanoparticles. 2015 , 2, 1400475	16
444	High-Performance Flexible Tandem Polymer Solar Cell Employing a Novel Cross-Linked Conductive Fullerene as an Electron Transport Layer. 2015 , 27, 1869-1875	35
443	Hole-selective and impedance characteristics of an aqueous solution-processable MoO ₃ layer for solution-processable organic semiconducting devices. 2015 , 66, 635-645	1
442	Air-stable flexible organic light-emitting diodes enabled by atomic layer deposition. 2015 , 26, 024005	16
441	Annealing-free highly crystalline solution-processed molecular metal oxides for efficient single-junction and tandem polymer solar cells. 2015 , 8, 2448-2463	60
440	Cross-linkable random copolymers as dielectrics for low-voltage organic field-effect transistors. 2015 , 3, 9217-9223	7
439	Understanding the role of organic polar solvent induced nanoscale morphology and electrical evolutions of P3HT:PCBM composite film. <i>Organic Electronics</i> , 2015 , 25, 50-56	3.5 8
438	Charge-carrier selective electrodes for organic bulk heterojunction solar cell by contact-printed siloxane oligomers. 2015 , 589, 125-132	4
437	Synthesis and photovoltaic properties of two new alkoxyphenyl substituted thieno[2,3-f]benzofuran based polymers. 2015 , 17, 17592-600	20
436	Atomically-thin molecular layers for electrode modification of organic transistors. 2015 , 7, 14100-8	8
435	Fullerene-capped copolymers for bulk heterojunctions: device stability and efficiency improvements. 2015 , 3, 18207-18221	25
434	Hydroxyethyl cellulose filled with M ²⁺ chelate complexes with ethylenediaminetetraacetic acid (EDTA) as an effective electron-injection layer for polymer light-emitting diodes. <i>Organic Electronics</i> , 2015 , 25, 156-164	3.5 3
433	A facile approach to alleviate photochemical degradation in high efficiency polymer solar cells. 2015 , 3, 16313-16319	36

432	Selenophene as a Bridge in Molecular Architecture of Benzotriazole Containing Conjugated Copolymers to Gain Insight on Optical and Electrochemical Properties of Polymers. 2015 , 190, 1294-1306		6
431	Interfacial modification for improving inverted organic solar cells by poly(N-vinylpyrrolidone). 2015 , 5, 58966-58972		8
430	Fabrication of high-performance composite electrodes composed of multiwalled carbon nanotubes and glycerol-doped poly(3,4-ethylenedioxythiophene):polystyrene sulfonate for use in organic devices. 2015 , 3, 7325-7335		22
429	Amorphous oxide alloys as interfacial layers with broadly tunable electronic structures for organic photovoltaic cells. 2015 , 112, 7897-902		37
428	Electronic Properties of Biphenylthiolates on Au(111): The Impact of Coverage Revisited. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7817-7825	3.8	19
427	Enhanced efficiency of inverted polymer solar cells using surface modified Cs-doped ZnO as electron transporting layer. <i>Synthetic Metals</i> , 2015 , 205, 164-168	3.6	7
426	Self-assembled monolayers on a ferromagnetic permalloy surface. 2015 , 31, 5311-8		7
425	Synthesis and characterization of conjugated oligoelectrolytes based on fluorene and carbazole derivative and application of polymer solar cell as a cathode buffer layer. <i>Macromolecular Research</i> , 2015 , 23, 367-376	1.9	15
424	Interfacial Materials for Efficient Solution Processable Organic Photovoltaic Devices. 2015 , 273-297		
423	Solution-processed MoO ₃ :PEDOT:PSS hybrid hole transporting layer for inverted polymer solar cells. 2015 , 7, 7170-9		69
422	High-Performance Planar Perovskite Optoelectronic Devices: A Morphological and Interfacial Control by Polar Solvent Treatment. 2015 , 27, 3492-500		187
421	Improvement of Conversion Efficiency of Inverted Organic Photovoltaic With PEDOT: PSS:WO _x by Thermal Annealing. 2015 , 5, 897-902		5
420	Old metal oxide clusters in new applications: spontaneous reduction of Keggin and Dawson polyoxometalate layers by a metallic electrode for improving efficiency in organic optoelectronics. 2015 , 137, 6844-56		99
419	Mechanistic Investigation into the Light Soaking Effect Observed in Inverted Polymer Solar Cells Containing Chemical Bath Deposited Titanium Oxide. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 5274-5280	2.8	18
418	Unraveling the Role of Substrates on Interface Energetics and Morphology of PCDTBT:PC70BM Bulk Heterojunction. 2015 , 2, 1500095		7
417	Molecular Ordering of Conjugated Polymers at Metallic Interfaces Probed by SFG Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7386-7399	3.8	20
416	Fluorination, and tunneling across molecular junctions. 2015 , 137, 3852-8		38
415	An alcohol soluble amino-functionalized organoplatinum(II) complex as the cathode interlayer for highly efficient polymer solar cells. 2015 , 3, 4372-4379		27

4 ¹⁴	Post-treatment-Free Solution-Processed Non-stoichiometric NiO(x) Nanoparticles for Efficient Hole-Transport Layers of Organic Optoelectronic Devices. 2015 , 27, 2930-7		225
4 ¹³	CuI as versatile hole-selective contact for organic solar cell based on anthracene-containing PPEBPV. 2015 , 143, 369-374		30
4 ¹²	Solution combustion synthesis of metal oxide nanomaterials for energy storage and conversion. 2015 , 7, 17590-610		259
4 ¹¹	Triple-stacked hole-selective layers for efficient solution-processable organic semiconducting devices. 2015 , 23, A625-39		8
4 ¹⁰	Charge-transport interfacial modification enhanced ultraviolet (UV)/near-UV phototransistor with high sensitivity and fast response speed. <i>Synthetic Metals</i> , 2015 , 210, 230-235	3.6	18
4 ⁰⁹	The storage of charges and its optical application in organic light-emitting diodes measured by a transient electroluminescence method. <i>Organic Electronics</i> , 2015 , 27, 114-118	3.5	11
4 ⁰⁸	Efficient PEDOT:PSS-Free Polymer Solar Cells with an Easily Accessible Polyacrylonitrile Polymer Material as a Novel Solution-Processable Anode Interfacial Layer. 2015 , 7, 25032-8		18
4 ⁰⁷	Fabrication of thienoacene-based Organic Thin-Film Transistors with various interfacial layers. 2015 , ,		
4 ⁰⁶	Efficiency enhancement of polymer solar cells via zwitterion doping in PEDOT:PSS hole transport layer. <i>Organic Electronics</i> , 2015 , 27, 232-239	3.5	14
4 ⁰⁵	High mobility organic field-effect transistor based on water-soluble deoxyribonucleic acid via spray coating. 2015 , 106, 043303		22
4 ⁰⁴	Patchable thin-film strain gauges based on pentacene transistors. <i>Organic Electronics</i> , 2015 , 26, 355-358	3.5	8
4 ⁰³	Study on the molecular distribution of organic composite films by combining photoemission spectroscopy with argon gas cluster ion beam sputtering. 2015 , 3, 276-282		11
4 ⁰²	Enhanced Power-Conversion Efficiency in Inverted Bulk Heterojunction Solar Cells using Liquid-Crystal-Conjugated Polyelectrolyte Interlayer. 2015 , 7, 19024-33		34
4 ⁰¹	Enhanced Outcoupling in Organic Light-Emitting Diodes via a High-Index Contrast Scattering Layer. 2015 , 2, 1366-1372		87
4 ⁰⁰	Hybrid tandem solar cells with depleted-heterojunction quantum dot and polymer bulk heterojunction subcells. 2015 , 17, 196-205		34
399	Insertion effects of interlayers for efficient polymer-based organic solar cells. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 08KF05	1.4	1
398	Surface Dipoles: A Growing Body of Evidence Supports Their Impact and Importance. 2015 , 48, 3007-15		67
397	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

396	Benzotriazole and benzodithiophene containing medium band gap polymer for bulk heterojunction polymer solar cell applications. 2015 , 53, 528-535	18
395	Efficient inverted-structure polymer solar cells with reduced graphene oxide for anode modification. 2015 , 24, 206-210	10
394	High-performance semitransparent perovskite solar cells with solution-processed silver nanowires as top electrodes. 2015 , 7, 1642-9	257
393	Poly(sulfobetaine methacrylate)s as electrode modifiers for inverted organic electronics. 2015 , 137, 540-9	53
392	An organic surface modifier to produce a high work function transparent electrode for high performance polymer solar cells. 2015 , 27, 892-6	81
391	Self-assembled monolayers of alkyl-thiols on InAs: A Kelvin probe force microscopy study. 2015 , 633, 53-59	17
390	MoO ₃ anode buffer layer for efficient and stable small molecular organic solar cells. 2015 , 39, 134-139	24
389	Tuning the energy gap of conjugated polymer zwitterions for efficient interlayers and solar cells. 2015 , 53, 327-336	16
388	Effects of Damköhler number of evaporation on the morphology of active layer and the performance of organic heterojunction solar cells fabricated by electrospray method. 2015 , 134, 140-147	19
387	Self-Assembled TiO ₂ Nanorods as Electron Extraction Layer for High-Performance Inverted Polymer Solar Cells. 2015 , 27, 44-52	31
386	Highly photosensitive thienoacene single crystal microplate transistors via optimized dielectric. <i>Organic Electronics</i> , 2015 , 16, 171-176	3.5 18
385	Organic solar cells using a high-molecular-weight benzodithiophene-benzothiadiazole copolymer with an efficiency of 9.4%. 2015 , 27, 702-5	176
384	Energetics at Doped Conjugated Polymer/Electrode Interfaces. 2015 , 2, 1400403	23
383	Tunable size and sensitization of ZnO nanoarrays as electron transport layers for enhancing photocurrent of photovoltaic devices. 2015 , 3, 828-835	12
382	Wet-milled anatase titanium oxide nanoparticles as a buffer layer for air-stable bulk heterojunction solar cells. 2015 , 23, 1017-1024	7
381	High-efficiency, solution-processed, multilayer phosphorescent organic light-emitting diodes with a copper thiocyanate hole-injection/hole-transport layer. 2015 , 27, 93-100	146
380	Solution-derived poly(ethylene glycol)-TiO _x nanocomposite film as a universal cathode buffer layer for enhancing efficiency and stability of polymer solar cells. 2015 , 8, 456-468	36
379	Enhanced fill factor of tandem organic solar cells incorporating a diketopyrrolopyrrole-based low-bandgap polymer and optimized interlayer. 2015 , 8, 331-6	8

378	High performance polymer solar cells with as-prepared zirconium acetylacetonate film as cathode buffer layer. 2014 , 4, 4691		144
377	Graphene-based materials for polymer solar cells. 2016 , 27, 1259-1270		29
376	Donor/Acceptor Mixed Self-Assembled Monolayers for Realising a Multi-Redox-State Surface. 2016 , 17, 1810-4		12
375	Characterization of ZnO Interlayers for Organic Solar Cells: Correlation of Electrochemical Properties with Thin-Film Morphology and Device Performance. 2016 , 8, 19787-98		17
374	Amide-Functionalized Small Molecules as Solution-Processed Electron Injection Layers in Highly Efficient Polymer Light-Emitting Diodes. 2016 , 3, 1500621		4
373	Enhanced performance of perovskite solar cells with solution-processed n-doping of the PCBM interlayer. 2016 , 6, 64962-64966		3
372	Doped Interlayers for Improved Selectivity in Bulk Heterojunction Organic Photovoltaic Devices. 2016 , 3, 1500346		4
371	Impedance spectroscopy analysis of the photophysical dynamics due to the nanostructuring of anode interlayers in organic photovoltaics. 2016 , 213, 3165-3177		8
370	Solution-processed tBu ₄ -ZnPc:C61bulk heterojunction organic photovoltaic cells. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 032301	1.4	3
369	Controlling the interface energetics of PCPDTBT by p-doping. <i>Organic Electronics</i> , 2016 , 39, 267-271	3.5	2
368	Influence of steric hindrance on the molecular packing and the anchoring of quinonoid zwitterions on gold surfaces. 2016 , 40, 5782-5796		11
367	Solution-Processed 8-Hydroquinolitolithium as Effective Cathode Interlayer for High-Performance Polymer Solar Cells. 2016 , 8, 9254-61		34
366	Etching of Crystalline ZnO Surfaces upon Phosphonic Acid Adsorption: Guidelines for the Realization of Well-Engineered Functional Self-Assembled Monolayers. 2016 , 8, 13472-83		10
365	Electron-beam-induced reduced graphene oxide as an alternative hole-transporting interfacial layer for high-performance and reliable polymer solar cells. <i>Organic Electronics</i> , 2016 , 34, 67-74	3.5	23
364	Non-conjugated water/alcohol soluble polymers with different oxidation states of sulfide as cathode interlayers for high-performance polymer solar cells. 2016 , 4, 4288-4295		14
363	Curing temperature reduction and performance improvement of solution-processable hole-transporting materials for phosphorescent OLEDs by manipulation of cross-linking functionalities and core structures. 2016 , 6, 33212-33220		15
362	Organic semiconductor heterojunctions: electrode-independent charge injectors for high-performance organic light-emitting diodes. 2016 , 5, e16042		56
361	Surface Modification on Solution Processable ZrO ₂ High-k Dielectrics for Low Voltage Operations of Organic Thin Film Transistors. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 9949-9957	3.8	34

360	Inverted organic photovoltaic cells. 2016 , 45, 2937-75		153
359	Electrostatic nanoassembly of contact interfacial layer for enhanced photovoltaic performance in polymer solar cells. 2016 , 153, 148-163		28
358	Trifluoromethyl-functionalized bathocuproine for polymer solar cells. 2016 , 4, 4640-4646		10
357	Tracking the Evolution of Polymer Interface Films during the Process of Thermal Annealing at the Domain and Single Molecular Levels using Scanning Tunneling Microscopy. 2016 , 32, 9437-44		6
356	High performance polymer solar cells employing a low-temperature solution-processed organic/inorganic hybrid electron transport layer. 2016 , 4, 16612-16618		9
355	Correlation between contact angle and electrical properties in pentacene and C6-DNT-V-based organic thin film transistors. 2016 ,		2
354	Softening temperature on sputtered ZnO interfacial barrier layer for an efficient charge transfer P3HT/ZnO and better interfacial stability in plastic organic photovoltaic devices. <i>Organic Electronics</i> , 2016 , 39, 138-145	3-5	3
353	Ammonia reduced graphene oxides as a hole injection layer for CdSe/CdS/ZnS quantum dot light-emitting diodes. 2016 , 27, 325201		7
352	Poly(3,4-ethylenedioxythiophene):sulfonated acetone-formaldehyde: preparation, characterization and performance as a hole injection material. 2016 , 4, 8077-8085		11
351	A homogeneous ethanedithiol doped ZnO electron transporting layer for polymer solar cells. 2016 , 4, 8738-8744		12
350	Improved impedance characteristics of all-water-processable triple-stacked hole-selective layers in solution-processed OLEDs. 2016 , 24, A846-55		4
349	Utilizing light trapping interference effects in microcavity structured colloidal quantum dot solar cells: A combined theoretical and experimental approach. 2016 , 28, 71-77		16
348	Radical polymers improve the metal-semiconductor interface in organic field-effect transistors. <i>Organic Electronics</i> , 2016 , 37, 148-154	3-5	13
347	Electron-collecting oxide layers in inverted polymer solar cells via oxidation of thermally evaporated titanium. 2016 , 31, 105003		
346	Ab initio calculation of ionization potential and electron affinity in solid-state organic semiconductors. 2016 , 93,		20
345	Electronic and optical properties of hexathiapentacene in the gas and crystal phases. 2016 , 93,		19
344	Interfacial Materials for Organic Solar Cells: Recent Advances and Perspectives. 2016 , 3, 1500362		310
343	Direct characterization of the energy level alignments and molecular components in an organic hetero-junction by integrated photoemission spectroscopy and reflection electron energy loss spectroscopy analysis. 2016 , 27, 345704		3

342	Printed Organic Thin Film Solar Cells. 2016 , 201-250		1
341	The importance of the polymer molecular weight and the processing solvent in PBDDTTT-C:PCBM bulk heterojunction solar cells: Their effects on the nanostructural active texture. 2016 , 140, 27-33		4
340	Triazine-core-containing star-shaped compounds as cathode interlayers for efficient inverted polymer solar cells. 2016 , 4, 11278-11283		6
339	Realization of AlO/MgO laminated structure at low temperature for thin film encapsulation in organic light-emitting diodes. 2016 , 27, 494003		21
338	Conjugated Polymer Zwitterions: Efficient Interlayer Materials in Organic Electronics. 2016 , 49, 2478-2488		83
337	Realizing High Performance Inverted Organic Solar Cells via a Nonconjugated Electrolyte Cathode Interlayer. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 26244-26248	3.8	12
336	Tunable interfaces on tetracene and pentacene thin-films via monolayers. 2016 , 18, 6062-6068		8
335	Polythiophene Thin Films by Surface-Initiated Polymerization: Mechanistic and Structural Studies. 2016 , 28, 4787-4804		20
334	Efficiency Improvement of Organic Solar Cells via Introducing Combined Anode Buffer Layer To Facilitate Hole Extraction. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13954-13962	3.8	13
333	Development of polymerfullerene solar cells. 2016 , 3, 222-239		63
332	Understanding the phase behavior from multiple-step isothermally crystallized poly(3-hexylthiophene)s. 2016 , 98, 61-69		8
331	Surface Structure Modification of ZnO and the Impact on Electronic Properties. 2016 , 28, 3893-921		123
330	Overcoming Electrode-Induced Losses in Organic Solar Cells by Tailoring a Quasi-Ohmic Contact to Fullerenes via Solution-Processed Alkali Hydroxide Layers. 2016 , 6, 1502195		26
329	Recent progress in electron transport layers for efficient perovskite solar cells. 2016 , 4, 3970-3990		393
328	Improved performance of organic photovoltaic devices by doping F 4 TCNQ onto solution-processed graphene as a hole transport layer. <i>Organic Electronics</i> , 2016 , 30, 302-311	3.5	12
327	Integrated all-organic 8T1B one transistor-one resistor (1T-1R) crossbar resistive switching memory array. <i>Organic Electronics</i> , 2016 , 29, 66-71	3.5	6
326	Insertion of interlayers in efficient polymer-based organic solar cells for control of phase separation. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 02BF03	1.4	1
325	Interplay between Interfacial Structures and Device Performance in Organic Solar Cells: A Case Study with the Low Work Function Metal, Calcium. 2016 , 8, 2125-31		33

324	The Effects of Improved Photoelectric Properties of PEDOT:PSS by Two-Step Treatments on the Performance of Polymer Solar Cells Based on PTB7-Th:PC(71)BM. 2016 , 8, 547-52		18
323	Enhanced photovoltaic performance of inverted polymer solar cells utilizing versatile chemically functionalized ZnO@graphene quantum dot monolayer. 2016 , 20, 221-232		40
322	Preparation and employment of carbon nanodots to improve electron extraction capacity of polyethylenimine interfacial layer for polymer solar cells. <i>Organic Electronics</i> , 2016 , 33, 62-70	3.5	12
321	Soft-Etching Copper and Silver Electrodes for Significant Device Performance Improvement toward Facile, Cost-Effective, Bottom-Contacted, Organic Field-Effect Transistors. 2016 , 8, 7919-27		8
320	Synthesis and photophysical properties of a single bond linked tetracene dimer. 2016 , 1116, 200-206		7
319	Charge transfer through amino groups-small molecules interface improving the performance of electroluminescent devices. 2016 , 55, 94-101		5
318	Self-assembled monolayers based spintronics: from ferromagnetic surface functionalization to spin-dependent transport. 2016 , 28, 094010		2
317	Seamless growth of a supramolecular carpet. 2016 , 7, 10653		12
316	Structure, stability and electrochromic properties of polyaniline film covalently bonded to indium tin oxide substrate. 2016 , 367, 542-551		46
315	Ideal rear contact formed via employing a conjugated polymer for Si/PEDOT:PSS hybrid solar cells. 2016 , 6, 16010-16017		29
314	Numerical simulations of the role of a ferroelectric polymer interfacial layer in organic solar cells. 2016 , 18, 5412-8		
313	Highly stable and efficient inverted organic solar cells based on low-temperature solution-processed PEIE and ZnO bilayers. 2016 , 4, 3784-3791		49
312	High-Quality Metal-Organic Framework Ultrathin Films for Electronically Active Interfaces. 2016 , 138, 2576-84		49
311	Optimization of the Energy Level Alignment between the Photoactive Layer and the Cathode Contact Utilizing Solution-Processed Hafnium Acetylacetonate as Buffer Layer for Efficient Polymer Solar Cells. 2016 , 8, 432-41		21
310	Highly efficient organic photovoltaic devices utilizing work-function tuned graphene oxide derivatives as the anode and cathode charge extraction layers. 2016 , 4, 1612-1623		60
309	Fluorinated SAMs on Si(001) surface: Surface electronic properties and structural aspects. 2016 , 191, 502-506		4
308	Electronic and optoelectronic properties of zinc phthalocyanine single-crystal nanobelt transistors. <i>Organic Electronics</i> , 2016 , 30, 158-164	3.5	13
307	The synthesis, characterization and flexible OFET application of three (Z)-1,2-bis(4-(tert-butyl)phenyl)ethane based copolymers. 2016 , 7, 538-545		3

306	A new wide bandgap small molecular acceptor based on indenofluorene derivatives for fullerene-free organic solar cells. 2017 , 140, 261-268		23
305	The effect of solvent treatment on the buried PEDOT:PSS layer. <i>Organic Electronics</i> , 2017 , 43, 9-14	3.5	17
304	Growth and characterization of organic layers deposited on porous-patterned Si surface. 2017 , 133, 01003		
303	Schottky Barrier in Organic Transistors. 2017 , 64, 1932-1943		28
302	Pre- and post-treatments free nanocomposite based hole transport layer for high performance organic solar cells with considerably enhanced reproducibility. 2017 , 34, 76-85		35
301	Boosting Up Performance of Inverted Photovoltaic Cells from Bis(alkylthien-2-yl)dithieno[2,3-d:2',3'-d']benzo[1,2-b:4',5'-b']di thiophene-Based Copolymers by Advantageous Vertical Phase Separation. 2017 , 9, 10937-10945		25
300	Interface engineering for enhancement in performance of organic/inorganic hybrid heterojunction diode. <i>Organic Electronics</i> , 2017 , 45, 26-32	3.5	21
299	A Green Route to Conjugated Polyelectrolyte Interlayers for High-Performance Solar Cells. 2017 , 129, 8551-8554		10
298	A Green Route to Conjugated Polyelectrolyte Interlayers for High-Performance Solar Cells. 2017 , 56, 8431-8434		28
297	Hybrid Photoconductive Cathode Interlayer Materials Composed of Perylene Bisimide Photosensitizers and Zinc Oxide for High Performance Polymer Solar Cells. 2017 , 7, 1602573		37
296	Flexible and low-voltage organic phototransistors. 2017 , 7, 11572-11577		15
295	Insights into the influence of fluorination positions on polymer donor materials on photovoltaic performance. <i>Organic Electronics</i> , 2017 , 46, 115-120	3.5	4
294	Highly efficient polymer solar cells with PTB7-based narrow band-gap conjugated polyelectrolytes as cathode interlayers: Device performance dependence on the ionic pendants. <i>Organic Electronics</i> , 2017 , 47, 94-101	3.5	8
293	Molecular design of interfacial layers based on conjugated polythiophenes for polymer and hybrid solar cells. 2017 , 66, 1333-1348		16
292	Reduction of Charge-Carrier Recombination at ZnO-Polymer Blend Interfaces in PTB7-Based Bulk Heterojunction Solar Cells Using Regular Device Structure: Impact of ZnO Nanoparticle Size and Surfactant. 2017 , 9, 17256-17264		11
291	Engineering the mobility increment in pentacene-based field-effect transistors by fast cooling of polymeric modification layer. 2017 , 50, 215107		3
290	Self-Organization of Polymer Additive, Poly(2-vinylpyridine) via One-Step Solution Processing to Enhance the Efficiency and Stability of Polymer Solar Cells. 2017 , 7, 1602812		26
289	Poly(3,4-Ethylenedioxythiophene): Methylnaphthalene Sulfonate Formaldehyde Condensate: The Effect of Work Function and Structural Homogeneity on Hole Injection/Extraction Properties. 2017 , 7, 1601499		38

288	Inverted planar solar cells based on perovskite/graphene oxide hybrid composites. 2017 , 5, 13957-13965		61
287	Morphology controls the thermoelectric power factor of a doped semiconducting polymer. 2017 , 3, e1700434	207	
286	50th Anniversary Perspective: Putting the Squeeze on Polymers: A Perspective on Polymer Thin Films and Interfaces. 2017 , 50, 4597-4609		51
285	Evaluation of electronic polarization energy in oligoacene molecular crystals using the solvated supermolecular approach. 2017 , 19, 14453-14461		6
284	Enhancing the Performance of Polymer Solar Cells by Using Donor Polymers Carrying Discretely Distributed Side Chains. 2017 , 9, 24020-24026		8
283	The effect of interface-induced structural properties of the pentacene accumulation layer on the threshold voltage: Pentacene monolayer transistors. 2017 , 627, 53-58		1
282	Improved performance of deep-blue polymer light-emitting diodes by one-step coating self-assembly hole injection/transport nanocomposites with both the optical and electrical optimization. <i>Organic Electronics</i> , 2017 , 45, 285-292	3.5	6
281	Transition metal oxides as hole-transporting materials in organic semiconductor and hybrid perovskite based solar cells. 2017 , 60, 472-489		34
280	Carbon Materials. 2017 , 429-462		1
279	Water-borne foldable polymer solar cells: one-step transferring free-standing polymer films onto woven fabric electrodes. 2017 , 5, 782-788		21
278	Depth profiling cross-linked poly(methyl methacrylate) films: a time-of-flight secondary ion mass spectrometry approach. 2017 , 31, 381-388		6
277	Imidazole-Functionalized Fullerene as a Vertically Phase-Separated Cathode Interfacial Layer of Inverted Ternary Polymer Solar Cells. 2017 , 9, 2720-2729		29
276	Interfacial engineering for highly efficient organic solar cells. 2017 , 17, 370-391		29
275	Enhanced performance in inverted polymer solar cells employing microwave-annealed sol-gel ZnO as electron transport layers. <i>Organic Electronics</i> , 2017 , 42, 107-114	3.5	11
274	Low-Temperature Solution-Processed SnO Nanoparticles as a Cathode Buffer Layer for Inverted Organic Solar Cells. 2017 , 9, 1645-1653		77
273	Surface engineering to achieve organic ternary memory with a high device yield and improved performance. 2017 , 8, 2344-2351		27
272	Authigenic buffer layer: Tuning surface work function in all polymer blend solar cells. 2017 , 535, 149-156		2
271	Photo-cross-linked perylene diimide derivative materials as efficient electron transporting layers in inverted polymer solar cells. 2017 , 9, 17731-17736		11

270	Self-assembled monolayers of octadecylphosphonic acid and polymer films: Surface chemistry and chemical structures studied by time-of-flight secondary ion mass spectrometry. 2017 , 49, 1431-1441		6
269	A new electrode design for ambipolar injection in organic semiconductors. 2017 , 8, 999		26
268	Investigation of the source-drain electrodes/the active layer contact-effect on the performance of organic phototransistor. <i>Synthetic Metals</i> , 2017 , 233, 58-62	3.6	2
267	High-Efficiency Semitransparent Organic Solar Cells with Non-Fullerene Acceptor for Window Application. 2017 , 4, 2327-2334		70
266	Tunable band offset and recombination in ZnO nanowire/CdTe quantum dot heterostructures. 2017 , 123, 1		3
265	Progress on material, structure and function for tandem organic light-emitting diodes. <i>Organic Electronics</i> , 2017 , 51, 220-242	3.5	35
264	Energy Level Alignment of N-Doping Fullerenes and Fullerene Derivatives Using Air-Stable Dopant. 2017 , 9, 35476-35482		9
263	A Facile Two-Step Interface Engineering Strategy To Boost the Efficiency of Inverted Ternary-Blend Polymer Solar Cells over 10%. 2017 , 5, 8997-9005		10
262	Physics Basis of Organic Semiconductor Heterojunctions. 2017 , 1-36		
261	Effects of Self-Assembled Monolayer Modification of Nickel Oxide Nanoparticles Layer on the Performance and Application of Inverted Perovskite Solar Cells. 2017 , 10, 3794-3803		116
260	Interface Trap State Characterization of Metal-Insulator-Semiconductor Structures Based on Photosensitive Organic Materials. 2017 , 4, 5045-5052		5
259	Boosting performance of inverted organic solar cells by using a planar coronene based electron-transporting layer. 2017 , 39, 454-460		33
258	Self-assembled coronene nanofiber arrays: toward integrated organic bioelectronics for efficient isolation, detection, and recovery of cancer cells. 2017 , 7, 36765-36776		4
257	Improved efficiency and stability in polymer solar cells using a Tetra-nuclear Zinc(II) complex interfacial layer. <i>Organic Electronics</i> , 2017 , 50, 273-278	3.5	1
256	Low-temperature dynamic vacuum annealing of ZnO thin film for improved inverted polymer solar cells. 2017 , 7, 29357-29363		8
255	An organic semiconductor as an anode-buffer for the improvement of small molecular photovoltaic cells. 2017 , 7, 38204-38209		3
254	High performance, top-emitting, quantum dot light-emitting diodes with all solution-processed functional layers. 2017 , 5, 9138-9145		12
253	On-surface synthesis of heptacene and its interaction with a metal surface. 2017 , 9, 12461-12469		45

252	Poly(3,4-ethylenedioxythiophene)-Poly(styrenesulfonate) Interlayer Insertion Enables Organic Quaternary Memory. 2017 , 9, 27847-27852		14
251	Hybrid Conjugated Polymer/Inorganic Objects: Elaboration of Novel Organic Electronic Materials. 2017 , 241-299		
250	Interface-Engineered Charge-Transport Properties in Benzenedithiol Molecular Electronic Junctions via Chemically p-Doped Graphene Electrodes. 2017 , 9, 42043-42049		7
249	Nanorod growth of copper phthalocyanine on fluorinated phosphonic acid SAM-modified indium tin oxide substrate for organic photovoltaic devices. 2017 , 653, 157-163		1
248	Flexible diodes for radio frequency (RF) electronics: a materials perspective. 2017 , 32, 123002		43
247	Exploring the driving forces behind the structural assembly of biphenylthiolates on Au(111). 2017 , 147, 024706		8
246	Reaction conditions, photophysical, electrochemical, conductivity, and thermal properties of polyazomethines. <i>Macromolecular Research</i> , 2017 , 25, 739-748	1.9	16
245	Inverted polymer solar cell based on MEH-PPV/PC 61 BM coupled with ZnO nanoparticles as electron transport layer. 2017 , 425, 156-163		14
244	End-Capping Groups for Small-Molecule Organic Semiconducting Materials: Synthetic Investigation and Photovoltaic Applications through Direct C-H (Hetero)arylation. 2017 , 2017, 111-123		8
243	Organic Spin-Valves and Beyond: Spin Injection and Transport in Organic Semiconductors and the Effect of Interfacial Engineering. 2017 , 29, 1602739		45
242	Polymer molecular behaviors at buried polymer/metal and polymer/polymer interfaces and their relations to adhesion in packaging. 2017 , 93, 1081-1103		14
241	Effect of Processing Additives on Organic Photovoltaics: Recent Progress and Future Prospects. 2017 , 7, 1601496		58
240	Self-assembled monolayers in organic electronics. 2017 , 46, 40-71		317
239	Efficient organic photovoltaic cells on a single layer graphene transparent conductive electrode using MoO ₃ as an interfacial layer. 2017 , 9, 251-257		24
238	A wide band gap polymer based on indacenodithieno[3,2-b]thiophene for high-performance bulk heterojunction polymer solar cells. 2017 , 5, 712-719		15
237	Improved performance of lead phthalocyanine phototransistor by template inducing effect based on optimized-thickness copper phthalocyanine layers. <i>Synthetic Metals</i> , 2017 , 234, 100-105	3.6	9
236	Polymer solar cells with reduced graphene oxide/germanium quantum dots nanocomposite in the hole transport layer. 2018 , 29, 7820-7831		9
235	Electronic Level Alignment at an Indium Tin Oxide/PbI ₂ Interface and Its Applications for Organic Electronic Devices. 2018 , 10, 8909-8916		8

234	N-Type Self-Doped Water/Alcohol-Soluble Conjugated Polymers with Tailored Energy Levels for High-Performance Polymer Solar Cells. 2018 , 51, 2195-2202		28
233	Surface engineering of ITO electrode with a functional polymer for PEDOT:PSS-free organic solar cells. <i>Organic Electronics</i> , 2018 , 57, 186-193	3.5	10
232	Anthracene-Based Organic Small-Molecule Electron-Injecting Material for Inverted Organic Light-Emitting Diodes. 2018 , 10, 11810-11817		6
231	A Nonconjugated Zwitterionic Polymer: Cathode Interfacial Layer Comparable with PFN for Narrow-Bandgap Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700828	4.8	14
230	Construction of Layered Structure of Anion-Cations To Tune the Work Function of Aluminum-Doped Zinc Oxide for Inverted Polymer Solar Cells. 2018 , 10, 10513-10519		12
229	Optical manipulation of work function contrasts on metal thin films. 2018 , 4, eaao6050		26
228	Solution processed ternary blend nano-composite charge regulation layer to enhance inverted OLED performances. 2018 , 112, 163302		6
227	Conjugated Polyelectrolytes Bearing Various Ion Densities: Spontaneous Dipole Generation, Poling-Induced Dipole Alignment, and Interfacial Energy Barrier Control for Optoelectronic Device Applications. 2018 , 30, e1706034		8
226	High-performance polymeric photovoltaic cells with a gold chloride-treated polyacrylonitrile hole extraction interlayer. 2018 , 33, 035019		1
225	Self-assembly monolayers boosting organic-inorganic halide perovskite solar cell performance. 2018 , 33, 387-400		23
224	Self-Doping Fullerene Electrolyte-Based Electron Transport Layer for All-Room-Temperature-Processed High-Performance Flexible Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1705847	15.6	51
223	When 2D Materials Meet Molecules: Opportunities and Challenges of Hybrid Organic/Inorganic van der Waals Heterostructures. 2018 , 30, e1706103		140
222	Single-Walled Carbon Nanotubes in Solar Cells. 2018 , 376, 4		42
221	Chemiresistive and Chemicapacitive Devices Formed via Morphology Control of Electroconductive Bio-nanocomposites. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700495	6.4	10
220	Reinforcing the Built-In Field for Efficient Charge Collection in Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1705079	15.6	17
219	Nanoscale morphology and electronic coupling at the interface between indium tin oxide and organic molecular materials. 2018 , 10, 9376-9385		10
218	Electron transport layer-free polymer solar cells show 40% higher efficiency than using ZnO transparent cathode. 2018 , 29, 11296-11305		5
217	Hole Extraction Enhancement for Efficient Polymer Solar Cells with Boronic Acid Functionalized Carbon Nanotubes doped Hole Transport Layers. 2018 , 6, 5122-5131		14

216	Molecular engineering of Rashba spin-charge converter. 2018 , 4, eaar3899		16
215	Interfacial charge-transfer engineering by ionic liquid for high performance planar CH ₃ NH ₃ PbBr ₃ solar cells. 2018 , 27, 748-752		9
214	Annealing temperature-dependent electronic properties in hydrothermal TiO ₂ nanorod arrays. 2018 , 22, 567-580		4
213	Recent progress in interface engineering of organic thin film transistors with self-assembled monolayers. 2018 , 2, 11-21		40
212	In-Situ Scrutiny of the Relationship between Polymorphic Phases and Properties of Self-Assembled Monolayers of a Biphenyl Based Thiol. 2018 , 122, 657-665		5
211	Polymer Solar Cells. 2018 , 45-108		1
210	Contrasting Effects of Energy Transfer in Determining Efficiency Improvements in Ternary Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1704212	15.6	49
209	Fully Coated Semitransparent Organic Solar Cells with a Doctor-Blade-Coated Composite Anode Buffer Layer of Phosphomolybdic Acid and PEDOT:PSS and a Spray-Coated Silver Nanowire Top Electrode. 2018 , 10, 943-954		61
208	All solution-processed red organic light-emitting diode based on a new thermally cross-linked heteroleptic Ir(III) complex. 2018 , 6, 11714-11721		23
207	The effects of hydrogen plasma treatment of ZnO electron transport layers on VOC of polymer solar cell. 2018 ,		
206	Branched Side Chains Govern Counterion Position and Doping Mechanism in Conjugated Polythiophenes. 2018 , 7, 1492-1497		25
205	Novel naphthalene-diimide-based small molecule with a bithiophene linker for use in organic field-effect transistors. <i>Organic Electronics</i> , 2018 , 63, 250-256	3.5	14
204	Dipole Formation at the MoO ₃ /Conjugated Polymer Interface. <i>Advanced Functional Materials</i> , 2018 , 28, 1802825	15.6	18
203	Nature and Technoenergy. 2018 , 251-280		
202	Interface Structure and Evolution of Dinaphthothienothiophene (DNNT) Films on Noble Metal Substrates. 2018 , 5, 1800920		9
201	All Polymer Solution Processed Electrochromic Devices: A Future without Indium Tin Oxide?. 2018 , 10, 31568-31579		37
200	Fullerene-derivative as interlayer for high performance organic thin-film transistors. 2018 , 6, 6052-6057		5
199	Tailoring Threshold Voltage in Indium-Zinc-Oxide Thin-Film Transistors by Inserting a 2-(4-Biphenyl)-5-(4-tert-butylphenyl)-1,3,4-oxadiazole Buffer Layer. 2018 , 215, 1700869		1

198	11,11,12,12-Tetracyanonaphtho-2,6-quinodimethane in Contact with Ferromagnetic Electrodes for Organic Spintronics. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800077	6.4	2
197	Novel Nonconjugated Polymer as Cathode Buffer Layer for Efficient Organic Solar Cells. 2018 , 10, 24082-24089	9	
196	Important effect of Pt modification at the collector/active material interface of flexible micro-supercapacitors. 2018 , 456, 410-418		4
195	Influence of Defects on the Reactivity of Organic Surfaces. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15582-15587	3.8	4
194	Insights into the passivation effect of atomic layer deposited hafnium oxide for efficiency and stability enhancement in organic solar cells. 2018 , 6, 8051-8059		17
193	Engineered Nanomaterials for Organic Light-Emitting Diodes (OLEDs). 2018 , 312-323		3
192	Hydrogen-Bonded Donor-Acceptor Arrays at the Solution-Graphite Interface. 2018 , 24, 12071-12077		8
191	Enhanced performance and stability of electrochromic device based on poly (3-methylthiophene) using 2-thiophenecarboxylic acid as interfacial modifier. 2018 , 107, 111-117		5
190	Functionalized Zinc Porphyrins with Various Peripheral Groups for Interfacial Electron Injection Barrier Control in Organic Light Emitting Diodes. 2018 , 3, 10008-10018		9
189	Enhanced Device Efficiency and Long-Term Stability via Boronic Acid-Based Self-Assembled Monolayer Modification of Indium Tin Oxide in a Planar Perovskite Solar Cell. 2018 , 10, 30000-30007		32
188	Surface-Guided Chemical Processes on Self-Assembled DNA Nanostructures. 2018 , 34, 14954-14962		3
187	Room-Temperature Fabrication of High-Quality Lanthanum Oxide High- κ Dielectric Films by a Solution Process for Low-Power Soft Electronics. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900427	6.4	6
186	Enhanced electron transportation of PF-NR cathode interface by gold nanoparticles. 2019 , 14, 261		3
185	Well-Ordered Monolayer Growth of Crown-Ether Ring Molecules on Cu(111) in Ultra-High Vacuum: An STM, UPS, and DFT Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 18939-18950	3.8	5
184	Investigating the Trade-Off between Device Performance and Energy Loss in Nonfullerene Organic Solar Cells. 2019 , 11, 29124-29131		19
183	The Impact of Dipolar Layers on the Electronic Properties of Organic/Inorganic Hybrid Interfaces. 2019 , 6, 1900581		75
182	Template process for engineering the photoluminescence of PVK and PPV-based nanowires. 2019 , 136, 48201		3
181	Tristep Mechanism To Explain the Illuminated C_{∞} Characteristic of an Organic Device. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17384-17389	3.8	1

180	Low-temperature in-situ preparation of ZnO electron extraction layer for efficient inverted polymer solar cells. <i>Organic Electronics</i> , 2019 , 74, 82-88	3.5	13
179	Green-synthesized, low-cost tetracyanodiazafluorene (TCAF) as electron injection material for organic light-emitting diodes. 2019 , 30, 1969-1973		5
178	Study of the Molecular Bending in Azobenzene Self-Assembled Monolayers Observed by Tip-Enhanced Raman Spectroscopy in Scanning Tunneling Mode. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26554-26563	3.8	2
177	Morphology control of the perovskite thin films via the surface modification of nickel oxide nanoparticles layer using a bidentate chelating ligand 2,2-Bipyridine. <i>Synthetic Metals</i> , 2019 , 258, 116197 ^{3.6}		4
176	Air Effect on the Ideality of p-Type Organic Field-Effect Transistors: A Double-Edged Sword. <i>Advanced Functional Materials</i> , 2019 , 29, 1906653	15.6	15
175	Organically interconnected graphene flakes: A flexible 3-D material with tunable electronic bandgap. 2019 , 9, 13676		4
174	Zwitterions for Organic/Perovskite Solar Cells, Light-Emitting Devices, and Lithium Ion Batteries: Recent Progress and Perspectives. 2019 , 9, 1803354		41
173	High-performance inverted polymer solar cells without an electron extraction layer via a one-step coating of cathode buffer and active layer. 2019 , 7, 1429-1434		15
172	Well-functioned photovoltaics based on nanofibers composed of PBDT-TIPS-DTNT-DT and graphenic precursors thermally modified by polythiophene, polyaniline and polypyrrole. 2019 , 68, 1516-1523		8
171	Annealing provoked modification of ZnPc photoactive nanolayer via self-assembling at SnO ₂ hybrid interface and its effect on layer electric properties towards application in hybrid photovoltaic devices. 2019 , 490, 492-501		3
170	Preparation of hierarchical flower-like nickel sulfide as hole transporting material for organic solar cells via a one-step solvothermal method. 2019 , 188, 403-413		8
169	Ternary Polymer Solar Cells with High Efficiency of 14.24% by Integrating Two Well-Complementary Nonfullerene Acceptors. <i>Advanced Functional Materials</i> , 2019 , 29, 1903596	15.6	39
168	Enhancing Photovoltaic Performance by Cathode Interfacial Modification with Inorganic/Organic Gradient Diffusion Structures. 2019 ,		1
167	High efficiency tandem polymer solar cells with MoO ₃ /Ni/ZnO:PEOz hybrid interconnection layers. 2019 , 4, 1221-1226		11
166	An efficient binary cathode interlayer for large-bandgap non-fullerene organic solar cells. 2019 , 7, 12426-12433 ^{3.5}		5
165	Amine-Based Interfacial Engineering in Solution-Processed Organic and Perovskite Solar Cells. 2019 , 11, 16785-16794		8
164	A tungsten oxide/tetrium bisphthalocyanine n/p heterojunction: from nanomaterials to a new transducer for chemo-sensing. 2019 , 7, 6448-6455		13
163	Progress and development in structural and optoelectronic tunability of supramolecular nonbonded fullerene assemblies. 2019 , 7, 6194-6216		29

162	Stable and tunable phosphonic acid dipole layer for band edge engineering of photoelectrochemical and photovoltaic heterojunction devices. 2019 , 12, 1901-1909		32
161	Modifying the organic/metal interface via solvent vapor annealing to enhance the performance of blue OLEDs. 2019 , 7, 4784-4790		4
160	Theoretical Investigations into the Electron and Ambipolar Transport Properties of Anthracene-Based Derivatives. 2019 , 123, 3300-3314		4
159	Degradation of PEDOT:PSS hole injection layers by electrons in organic light emitting devices. <i>Organic Electronics</i> , 2019 , 69, 313-319	3.5	10
158	Graphenic nanosheets sandwiched between crystalline cakes of poly(3-hexylthiophene) via simultaneous grafting/crystallization and their applications in active photovoltaic layers. 2019 , 30, 7018-7030		10
157	Interface Engineering for High-Performance Printable Solar Cells. 2019 , 193-252		0
156	Molecular Orientation of Poly-3-hexylthiophene at the Buried Interface with Fullerene. 2019 , 10, 1757-1762		18
155	Dielectric Selection for Solution-Processed High-Mobility TIPS-Pentacene Microwire Field-Effect Transistors. 2019 , 6, 1801984		9
154	Development of Paint-Type Dye-Sensitized Solar Cell Using Carbon Nanotube Paint. 2019 , 2019, 1-6		2
153	Nitrogen plasma surface treatment for improving polar ink adhesion on micro/nanofibrillated cellulose films. 2019 , 26, 3845-3857		7
152	Recovery of electroluminescence in electron-only organic light-emitting diode by inserting a thin MoO3 layer at Bphen/NPB interface. 2019 , 9, 035149		2
151	Surface modification of ZnO electron transport layers with glycine for efficient inverted non-fullerene polymer solar cells. <i>Organic Electronics</i> , 2019 , 70, 25-31	3.5	23
150	Synthesis and characterization of new asymmetric thieno[3,4-b]pyrazine-based D _{AA} type small molecular donors with near-infrared absorption and their photovoltaic applications. <i>Organic Electronics</i> , 2019 , 68, 159-167	3.5	8
149	Alcohol-soluble anode modifier for highly efficient inverted solar cells with oligo-oxyethylene chains. <i>Organic Electronics</i> , 2019 , 68, 200-204	3.5	3
148	Charge Transfer and Interface Effects in Co-Assembled Circular Donor/Acceptor Complexes for Organic Photovoltaics. 2019 , 2, 1800194		4
147	Chemically transformed monolayers on acene thin films for improved metal/organic interfaces. 2019 , 55, 13975-13978		4
146	Enhanced p-Type Work Function Tunability Induced by Electrostatic Molecular Alignment and Surface Coverage in Conjugated Small-Molecule Electrolyte. 2019 , 1, 2566-2573		2
145	Simple Interface Modification of Electroactive Polymer Film Electrodes. 2019 , 11, 47131-47142		8

144	Carbon-Based Photocathode Materials for Solar Hydrogen Production. 2019 , 31, e1801446		54
143	Synthesis of N,S-Doped Carbon Quantum Dots for Use in Organic Solar Cells as the ZnO Modifier To Eliminate the Light-Soaking Effect. 2019 , 11, 2243-2253		57
142	Conductivity via Thermally Induced Gap States in a Polyoxometalate Thin Layer. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 1922-1930	3.8	5
141	Precise Control of Interfacial Charge Transport for Building Functional Optoelectronic Devices. 2019 , 4, 1800358		1
140	Performance and Uniformity Improvement in Ultrathin Cu(In,Ga)Se Solar Cells with a WO Nanointerlayer at the Absorber/Transparent Back-Contact Interface. 2019 , 11, 655-665		13
139	Practical use of polymer brushes in sustainable energy applications: interfacial nanoarchitectonics for high-efficiency devices. 2019 , 48, 814-849		88
138	UV- ozone treated graphene oxide/ PEDOT:PSS bilayer as a novel hole transport layer in highly efficient and stable organic solar cells. <i>Organic Electronics</i> , 2019 , 66, 32-42	3.5	18
137	Modulating the morphology and molecular arrangement via the well-compatible polymer donor in multiple working mechanisms intertwined ternary organic solar cells. <i>Organic Electronics</i> , 2019 , 66, 13-23 ^{3.5}	3.5	10
136	Oxide-Polymer Heterojunction Diodes with a Nanoscopic Phase-Separated Insulating Layer. 2019 , 19, 471-476		7
135	Improved organic solar cell by incorporating silver nanoparticles embedded polyaniline as buffer layer. 2020 , 163, 107658		12
134	Efficiency enhancement of organic solar cells enabled by interface engineering of sol-gel zinc oxide with an oxadiazole-based material. <i>Organic Electronics</i> , 2020 , 76, 105483	3.5	12
133	TBP precursor agent passivated ZnO electron transport layer for highly efficient polymer solar cells. <i>Organic Electronics</i> , 2020 , 76, 105458	3.5	5
132	A Short Review on Interface Engineering of Perovskite Solar Cells: A Self-Assembled Monolayer and Its Roles. 2020 , 4, 1900251		43
131	Role of Continuous Spray Pyrolyzed synthesized MoO ₃ nanorods in PEDOT:PSS matrix by electric field assisted spray deposition for organic photovoltaics. <i>Organic Electronics</i> , 2020 , 77, 105525	3.5	3
130	Surface-grafting polymers: from chemistry to organic electronics. 2020 , 4, 692-714		42
129	Energy level engineering of PEDOT:PSS by antimonene quantum sheet doping for highly efficient OLEDs. 2020 , 8, 1796-1802		7
128	Surface Modification of SnO via MAPbI Nanowires for a Highly Efficient Non-Fullerene Acceptor-Based Organic Solar Cell. 2020 , 12, 5120-5127		15
127	Roles of interfaces in the ideality of organic field-effect transistors. 2020 , 5, 454-472		18

126	Burying the Inverted Surface Dipole: Self-Assembled Monolayers Derived from Alkyl-Terminated Partially Fluorinated Alkanethiols. 2020 , 32, 953-968	3
125	Organic Semiconductor Field-Effect Transistors Based on Organic-2D Heterostructures. 2020 , 7,	1
124	Facilitated Interfacial Electronic Processes by the π -Stacked Edge-on Tetrabenzoporphyrin/Graphene Layer Enables Broadband Ultrasensitive Photodetecting with Prompt Response. 2020 , 2, 3459-3467	1
123	Effect of functional groups of self assembled monolayer molecules on the performance of inverted perovskite solar cell. 2020 , 254, 123435	3
122	ZnO nanostructured materials for emerging solar cell applications.. 2020 , 10, 42838-42859	49
121	Crystal Engineering of Molecular Solids as Temporary Adhesives. 2020 , 32, 9882-9896	7
120	Crack-Assisted Charge Injection into Solvent-Free Liquid Organic Semiconductors via Local Electric Field Enhancement. 2020 , 13,	0
119	Planar Organic-Si Hybrid Solar Cell with MoO _x Mixed PEDOT:PSS as Hole Injection Layer Profits from Mo ⁵⁺ and Mo ⁶⁺ Synergistic Effects. 2020 , 7, 2000754	8
118	Solution-Processed Silver Electrode for Inverted Organic Solar Cell Based on Easily Deposited Hole Transporting Layer onto Hydrophobic Active Layer. 2020 , 29, 37-50	0
117	Low band-gap polymer brushes: Influence of the end-group on the morphology of core-shell nanoparticles. 2020 , 155, 104700	3
116	Interfacial Dipole in Organic and Perovskite Solar Cells. 2020 , 142, 18281-18292	70
115	Highly efficient hole injection/transport layer-free OLEDs based on self-assembled monolayer modified ITO by solution-process. 2020 , 78, 105399	9
114	Work function seen with sub-meV precision through laser photoemission. 2020 , 3,	6
113	Orthogonal Printable Reduced Graphene Oxide 2D Materials as Hole Transport Layers for High-Performance Inverted Polymer Solar Cells: Sheet Size Effect on Photovoltaic Properties. 2020 , 12, 42811-42820	9
112	Spin-orbit torques. 2020 , 29, 1-55	1
111	Suppressing the Photocatalytic Activity of Zinc Oxide Electron-Transport Layer in Nonfullerene Organic Solar Cells with a Pyrene-Bodipy Interlayer. 2020 , 12, 21961-21973	28
110	Graphene-passivated nickel as an efficient hole-injecting electrode for large area organic semiconductor devices. 2020 , 116, 163301	2
109	Efficiency enhancement in an inverted organic light-emitting device with a TiO ₂ electron injection layer through interfacial engineering. 2020 , 8, 8206-8212	4

108	Tackling Performance Challenges in Organic Photovoltaics: An Overview about Compatibilizers. 2020 , 25,			14
107	Non-covalent interaction controlled 2D organic semiconductor films: Molecular self-assembly, electronic and optical properties, and electronic devices. 2020 , 75, 100481			14
106	Weak Antilocalization and Spin Hall Effect in Pt Films Doped with Molecular Spin. 2020 , 2, 2098-2103			2
105	Cross-Plane Thermal Conductance of Phosphonate-Based Self-Assembled Monolayers and Self-Assembled Nanodielectrics. 2020 , 12, 34901-34909			1
104	Polymer design to promote low work function surfaces in organic electronics. 2020 , 103, 101222			27
103	Directly Spin Coating a Low-Viscosity Organic Semiconductor Solution onto Hydrophobic Surfaces: Toward High-Performance Solution-Processable Organic Transistors. 2020 , 7, 1901950			6
102	The role of self-assembled monolayers in electronic devices. 2020 , 8, 3938-3955			56
101	Graphene oxide-doped PEDOT:PSS as hole transport layer in inverted bulk heterojunction solar cell. 2020 , 31, 3576-3584			5
100	Ab Initio Simulations of Interfaces between SAM-Modified Gold Electrodes and n-Type or p-Type Organic Semiconductors Based on the Benzothieno-Benzothiophene (BTBT) Architecture. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3601-3609	3.8		4
99	Surface Rashba-Edelstein Spin-Orbit Torque Revealed by Molecular Self-Assembly. 2020 , 13,			8
98	Light trapping using copper decorated nano-composite in the hole transport layer of organic solar cell. 2020 , 203, 83-90			11
97	Work Function-Tunable Graphene-Polymer Composite Electrodes for Organic Light-Emitting Diodes. 2020 , 3, 4068-4077			7
96	Vacancies induced enhancement in neodymium doped titania photoanodes based sensitized solar cells and photo-electrochemical cells. 2021 , 220, 110843			5
95	Thiazole-Modified C3N4 Interfacial Layer for Defect Passivation and Charge Transport Promotion in Perovskite Solar Cells. 2021 , 5, 2000720			4
94	Atomically Smooth Graphene-Based Hybrid Template for the Epitaxial Growth of Organic Semiconductor Crystals. <i>Advanced Functional Materials</i> , 2021 , 31, 2008813	15.6		3
93	Organic solar cells: Current perspectives on graphene-based materials for electrodes, electron acceptors and interfacial layers. 2021 , 45, 6518-6549			7
92	High temperature stable conjugated polyazomethines containing naphthalene moiety: Synthesis, characterization, optical, electrical and thermal properties. 2021 , 246, 118989			4
91	Organic Semiconductors at the University of Washington: Advancements in Materials Design and Synthesis and toward Industrial Scale Production. 2021 , 33, e1904239			18

90	Surface and interface effects: properties of nanostructured ZnO. 2021 , 253-287		
89	Role of defective states in MgO nanoparticles on the photophysical properties and photostability of MEH-PPV/MgO nanocomposite. 2021 , 23, 22804-22816		1
88	ZnO in organic electronics. 2021 , 697-715		1
87	Silver Nanowires Digital Printing for Inverted Flexible Semi-Transparent Solar Cells. 2021 , 23, 2001305		8
86	Effects of Heat Treatment on Crystallinity, Hydrophilicity, and Photocatalytic Activity of Cd _{0.2} Zn _{0.8} S Solid Solution. 2021 , 95, 262-269		0
85	Realizing 8 cd A ⁻¹ Current Efficiency for Solution-Processed Inverted Top-Emitting Polymer Light-Emitting Diodes. 2021 , 50, 2556-2564		1
84	Formation Mechanism of PFN Dipole Interlayer in Organic Solar Cells. 2021 , 5, 2000753		9
83	Degradation of Polymer Solar Cells: Knowledge Learned from the Polymer:Fullerene Solar Cells. 2021 , 9, 2000920		5
82	IMPROVEMENT OF SURFACE POTENTIAL ENERGY OF INDIUM TIN OXIDE THIN FILM MODIFIED WITH ORGANIC SEMICONDUCTOR MATERIAL BASED ON PHENYL GROUP. 2021 , 28, 2150043		
81	Mechanism of the Alcohol-Soluble Ionic Organic Interlayer in Organic Solar Cells. 2021 , 37, 4347-4354		1
80	Perfluorinated Phthalocyanines on Cu(110) and Cu(110)-(2 × 1)O: The Special Role of the Central Cobalt Atom. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8803-8814	3.8	1
79	Design of Mixed Electron- and Ion-Conducting Radical Polymer-Based Blends. 2021 , 54, 5178-5186		2
78	Effect of surface modification of nickel oxide hole-transport layer via self-assembled monolayers in perovskite solar cells.		1
77	Effect of conjugated small molecular electrolytes based on carbazole with N and F atoms for the automatic formation of electron transport layer in polymer solar cell. <i>Synthetic Metals</i> , 2021 , 275, 116734 ⁶		1
76	Carrier Blocking Layer Materials and Application in Organic Photodetectors. 2021 , 11,		6
75	Modification of the SnO Electron Transporting Layer by Using Perylene Diimide Derivative for Efficient Organic Solar Cells. <i>Frontiers in Chemistry</i> , 2021 , 9, 703561	5	4
74	Polycyclic Aromatic Hydrocarbons Bearing Polyethynyl Bridges: Synthesis, Photophysical Properties, and their Applications. 2021 , 10, 1544-1566		2
73	Molecule deposition in mask-shielded regions revealed by selective Mg vapor deposition. 2021 , 39, 043202		

72	Hybrid Inorganic/Organic Inverted Solar Cells With ZnO/ZnMgO Barrier Layer and Effective Organic Active Layer for Low Leakage Current, Enhanced Efficiency, and Reliability. 2021 , 11, 983-990		3
71	Recent Advances of Furan and Its Derivatives Based Semiconductor Materials for Organic Photovoltaics.. 2021 , 5, e2100493		12
70	Interface Properties of CoPc on Nanographene-Covered Au(111) and the Influence of Annealing. 2021 , 37, 10750-10761		1
69	Effect of annealing treatment and ICL in the improvement of OSC properties based on MEH-PPV:PC70BM and P3HT:PC70BM sub-cells. 2021 , 44, 1		1
68	Balanced shelf and operational stability of the PM6:Y6 solar cells by using ZnO:PEI composite electron transporting layer. <i>Organic Electronics</i> , 2021 , 96, 106257	3.5	6
67	Low-temperature cross-linkable hole transporting materials through chemical doping for solution-processed green PHOLEDs. <i>Organic Electronics</i> , 2021 , 99, 106334	3.5	0
66	Enhancing hole injection by processing ITO through MoO3 and self-assembled monolayer hybrid modification for solution-processed hole transport layer-free OLEDs. 2022 , 427, 131356		0
65	Cathode interfacial engineering using stearic-acid-mediated polyethylenimine ethoxylated for high-performance solution-processed organic light-emitting diodes. 2022 , 427, 130890		2
64	Metal phthalocyanines: thin-film formation, microstructure, and physical properties.. 2021 , 11, 21716-21737		14
63	Interlayers for non-fullerene based polymer solar cells: distinctive features and challenges. 2021 , 14, 180-223		65
62	Degradation of Polymer-Based OPV. 143-162		2
61	Stille Polycondensation: A Versatile Synthetic Approach to Functional Polymers. 1-58		4
60	Tunable Dopants with Intrinsic Counterion Separation Reveal the Effects of Electron Affinity on Dopant Intercalation and Free Carrier Production in Sequentially Doped Conjugated Polymer Films. <i>Advanced Functional Materials</i> , 2020 , 30, 2001800	15.6	22
59	Highly Luminescent 2D-Type Slab Crystals Based on a Molecular Charge-Transfer Complex as Promising Organic Light-Emitting Transistor Materials. 2017 , 29, 1701346		80
58	Recent Progress and Challenges toward Highly Stable Nonfullerene Acceptor-Based Organic Solar Cells. 2021 , 11, 2003002		59
57	Architecture and Function of Biohybrid Solar Cell and Solar-to-Fuel Nanodevices. 2020 , 227-274		1
56	Interfacial Materials for Organic Solar Cells. 2020 , 373-423		1
55	Highly efficient organic solar cells enabled by a porous ZnO/PEIE electron transport layer with enhanced light trapping. 2021 , 64, 808-819		7

54	Flexible and low-voltage phototransistor based on novel self-assembled phosphonic acids monolayers. <i>Synthetic Metals</i> , 2020 , 269, 116563	3.6	2
53	Performance improvement of a pentacene organic field-effect transistor through a DNA interlayer. 2014 , 47, 205402		16
52	Vitamin B12-functionalized patterned Si surface for solar energy conversion. 2018 , 21, 206-210		2
51	Towards low-voltage organic thin film transistors (OTFTs) with solution-processed high-k dielectric and interface engineering. 2015 , 2, 510-529		3
50	Equivalent Circuit Modification for Organic Solar Cells. 2015 , 06, 153-160		5
49	Thermal Boundary Resistance between N,N'-Bis(1-naphthyl)-N,N'-diphenylbenzidine and Aluminum Films. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 11RB02	1.4	3
48	Enhanced efficiency in hollow core electrospun nanofiber-based organic solar cells. 2021 , 11, 21144		9
47	Modification of PEDOT:PSS towards high-efficiency OLED electrode via synergistic effect of carboxy and phenol groups from biomass derivatives. 2022 , 430, 133014		1
46	Recent progress in electron transport bilayer for efficient and low-cost perovskite solar cells: a review. 1		0
45	An Approach to Equivalent Circuit Modelling of Inverted Organic Solar Cells. 2016 , 07, 1297-1306		
44	İndiyum Kalay Oksit Üzerinde Kendiliğinden Organize Tek Tabaka Teknoloji Polifluoren Tabanlı Organik İYayan Diyotun Taban Mobilitesinin Geliştirilmesi. 21-25		
43	High-performance red-inverted polymer light emitting diodes enhanced via coupled-Au NPs induced local surface plasmon resonance. <i>Organic Electronics</i> , 2021 , 100, 106392	3.5	0
42	Rationalizing energy level alignment by characterizing Lewis acid/base and ionic interactions at printable semiconductor/ionic liquid interfaces. 2021 ,		
41	Generation and manipulation of current-induced spin-orbit torques. 2021 , 97, 499-519		1
40	Electronic and Magnetic Properties of a Three-Arm Nonconjugated Open-Shell Macromolecule.		1
39	Metal oxide charge transfer complex for effective energy band tailoring in multilayer optoelectronics.. 2022 , 13, 75		0
38	Copper phosphotungstate as low cost, solution-processed, stable inorganic anode interfacial material enables organic photovoltaics with over 18% efficiency. 2022 , 94, 106923		1
37	Self-assembled monolayers for interface engineering in polymer solar cells.		1

36	Engineered Cathode Buffer Layers for Highly Efficient Organic Solar Cells: A Review. 2101693		5
35	Highly stable bulk heterojunction organic solar cells based on asymmetric benzoselenadiazole-oriented organic chromophores.		1
34	Molecular Doping Efficiency in Organic Semiconductors: Fundamental Principle and Promotion Strategy. <i>Advanced Functional Materials</i> , 2022 , 32, 2111351	15.6	6
33	Carbon Nanotubes for Solar Cells and Photovoltaics. 2021 , 1-31		
32	Single-crystal dielectrics for organic field-effect transistors. 2022 , 10, 4985-4998		1
31	Interfacial Design for Efficient Organic Solar Cells. 2022 , 487-518		0
30	Application of ultrathin TiO ₂ layers in solar energy conversion devices.		3
29	Smart textiles for personalized healthcare. 2022 , 5, 142-156		53
28	Improving the Structural, Optical and Photovoltaic Properties of Sb- and Bi- Co-Doped MAPbBr ₃ Perovskite Solar Cell. 2022 , 12, 386		0
27	Properties and Applications of Copper(I) Thiocyanate Hole-Transport Interlayers Processed from Different Solvents. <i>Advanced Electronic Materials</i> , 2101253	6.4	0
26	Utilization of perylene diimide derivative doped tin oxide as an electron transport layer for performance enhancement of non-fullerene organic solar cell. 2021 ,		
25	Interfaces between Different Iron Phthalocyanines and Au(111): Influence of the Fluorination on Structure and Interfacial Interactions. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 716-727	3.8	0
24	Editorial: Interfacial Structures and Their Properties.. <i>Frontiers in Chemistry</i> , 2021 , 9, 807066		5
23	Review Plasmonic Nanostructures for Efficiency Enhancement of Organic Solar Cells. <i>Materials Today Physics</i> , 2022 , 100680	8	1
22	Naphthalene-Diimide-Based Small Molecule Containing a Thienothiophene Linker for n-Type Organic Field-Effect Transistors. <i>Macromolecular Research</i> , 1	1.9	1
21	Highly efficient inverted organic solar cells with natural biomaterial histidine as electron transport layer. <i>Organic Electronics</i> , 2022 , 106, 106538	3.5	1
20	Order beyond a monolayer: The story of two self-assembled 4,4'-bipyridine layers on the Sb(111) ionic liquid interface. <i>Electrochimica Acta</i> , 2022 , 421, 140468	6.7	0
19	Combining Polymer Zwitterions and Zinc Oxide for High Performance Inverted Organic Solar Cells. <i>Macromolecular Rapid Communications</i> , 2200291	4.8	

18	PTB7 and PTB7-Th as universal polymers to evaluate materials development aspects of organic solar cells including interfacial layers, new fullerenes, and non-fullerene electron acceptors. <i>Synthetic Metals</i> , 2022 , 287, 117088	3.6	0
17	Organic Heteroepitaxy Growth of High-Performance Responsive Thin Films with Solution Shearing Crystals as Templates. 1314-1321		
16	Highly thermal-stable organic light-emitting diodes with a bulk heterojunction interfacial modification layer. <i>Japanese Journal of Applied Physics</i> ,	1.4	
15	Computational modeling for the design of new fluorescent organic compounds based on both diketopyrrolopyrrole and nitrobenzofurazan moieties. <i>Journal of Molecular Liquids</i> , 2022 , 360, 119550	6	2
14	Exciton Dynamics of MEH-PPV polymer based Nanocomposites: Effect of Molecular Orbital Energy Levels of Nanoparticles**. <i>ChemistrySelect</i> , 2022 , 7,	1.8	
13	Organic/Inorganic hybrid cathode interlayer materials for efficient organic solar cells.		
12	Nanoarchitectonics of mesoporous carbon from C60/PCBM hybrid crystals for supercapacitor. 2023 , 201, 449-459		1
11	Modification of Electrode Interface with Fullerene-Based Self-Assembled Monolayer for High-Performance Organic Optoelectronic Devices. 2022 , 13, 1613		2
10	Novel carbazole host materials for solution processed TADF Organic Light Emitting Diodes. 2022 , 208, 110821		0
9	A Review on Quantum Dot Light-Emitting Diodes: From Materials to Applications. 2201965		0
8	Carbon Nanotubes for Solar Cells and Photovoltaics. 2022 , 1419-1449		0
7	Enhancement Performance of Organic Light-Emitting Diodes Through Self-Assembled Monolayer-Modified ITO Anode. 2200418		0
6	Mechanically robust stretchable semiconductor metallization for skin-inspired organic transistors. 2022 , 8,		0
5	Terminal Groups of Nonfullerene Acceptors: Design and Application.		0
4	Graphitic Carbon Nitride Nanosheets: Dual Functional Charge Selective Cathode/Anode Interface Layer for Polymer Solar Cells. 2023 , 6, 554-563		0
3	Tailoring Self-Assembled Monolayers for High-Performance Polymer Solar Cells with Improved Stability. 2201106		0
2	Coverage-Dependent Modulation of Charge Density at the Interface between Ag(001) and Ruthenium Phthalocyanine.		0
1	Complementary Inverter Based on n-Type and p-Type OFETs with the Same Ambipolar Organic Semiconductor and ITO S/D Electrodes. 2201288		0

