

# CITATION REPORT

List of articles citing

## Plastic Solar Cells

DOI: 10.1002/1616-3028(200102)11:13.O.co;2-a  
Advanced Functional Materials, 2001, 11, 15-26.

**Source:** <https://exaly.com/paper-pdf/33080517/citation-report.pdf>

**Version:** 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2303	Impact of Marginal Exciton Charge-Transfer State Offset on Charge Generation and Recombination in Polymer:Fullerene Solar Cells.		
2302	Exciton diffusion and optical interference in organic donor-acceptor photovoltaic cells. <b>2001</b> , 90, 3632-3641		288
2301	Photo-Electron Spectroscopy Study of Energy Levels in Conjugated Oligomers. <b>2001</b> , 708, 261		1
2300	Organic Solar Cells Based on Evaporated Planar and Bulk Heterojunctions of a PPV pentamer and C60. <b>2001</b> , 708, 931		
2299	Circular dielectric gratings acting as resonators for solid state polymer lasers. <b>2001</b> ,		
2298	Synthesis and photophysical properties of [60]fullerene-oligo(thienylene-ethynylene) dyads. <b>2001</b> , 42, 6877-6881		34
2297	Organic and polymer semiconductor devices.		
2296	Supramolecular self-assembled fullerene nanostructures. <b>2002</b> , 99, 5075-80		176
2295	Recombination of long-lived photoexcitations in regioregular polyalkylthiophenes. <b>2002</b> , 66,		53
2294	Electric current rectification by an all-organic electrochemical device. <b>2002</b> , 81, 2011-2013		54
2293	Hydrogen bond-directed aggregation of diazadibenzoperylene dyes in low-polarity solvents and the solid state. <b>2002</b> , 99, 4993-6		21
2292	Organic Materials And Devices For Photovoltaic Applications. <b>2002</b> , 197-224		1
2291	Molecular engineering of C60-based conjugated oligomer ensembles: modulating the competition between photoinduced energy and electron transfer processes. <b>2002</b> , 67, 1141-52		94
2290	Semiconducting Block Copolymers for Self-Assembled Photovoltaic Devices. <b>2002</b> , 27, 456-460		42
2289	A novel layer-by-layer approach to immobilization of polymers and nanoclusters. <b>2002</b> , 124, 12238-43		60
2288	Efficient light harvesting in a photovoltaic diode composed of a semiconductor conjugated copolymer blend. <b>2002</b> , 80, 2204-2206		50
2287	Spectroscopic and Spectroelectrochemical Properties of a Poly(alkylthiophene)Oligoaniline Hybrid Polymer. <b>2002</b> , 35, 6112-6120		46

2286	Synthesis and Characterization of Soluble and n-Dopable Poly(quinoxaline vinylene)s and Poly(pyridopyrazine vinylene)s with Relatively Small Band Gap. <b>2002</b> , 35, 1638-1643	51
2285	Fullerene-functionalized polyesters: synthesis, characterization and incorporation in photovoltaic cells. <b>2002</b> , 26, 1584-1589	36
2284	Charge Generation Kinetics and Transport Mechanisms in Blended Polyfluorene Photovoltaic Devices. <b>2002</b> , 2, 1353-1357	205
2283	Organic semiconductors: a theoretical characterization of the basic parameters governing charge transport. <b>2002</b> , 99, 5804-9	1034
2282	Photoinduced Energy Transfer Processes in Functionalized Fullerenes. <b>2002</b> , 137-162	13
2281	Photovoltaic Applications. <b>2002</b> , 387-435	13
2280	Ionomeric control of interchain interactions, morphology, and the electronic properties of conjugated polymer solutions and films. <b>2002</b> , 116, 8198-8208	66
2279	Recombination and loss analysis in polythiophene based bulk heterojunction photodetectors. <b>2002</b> , 81, 3885-3887	771
2278	Transient optical studies of charge recombination dynamics in a polymer/fullerene composite at room temperature. <b>2002</b> , 81, 3001-3003	179
2277	Electrochemical and Photophysical Properties of a Novel Polythiophene with Pendant Fulleropyrrolidine Moieties: Toward Double Cable Polymers for Optoelectronic Devices. <b>2002</b> , 106, 70-76	72
2276	Photoluminescent supramolecular polymers: metal-ion directed polymerization of terpyridine-functionalized perylene bisimide dyes. <b>2002</b> , 1878-9	116
2275	23 Fullerenes. <b>2002</b> , 98, 455-477	1
2274	Conjugated polymer blends: linking film morphology to performance of light emitting diodes and photodiodes. <b>2002</b> , 14, 12235-12260	168
2273	Organic photovoltaic films. <b>2002</b> , 6, 87-95	333
2272	Synthesis and characterization of poly(quinoxaline vinylene)s and poly(pyridopyrazine vinylene)s with phenyl substituted side-groups. <b>2002</b> , 131, 53-59	14
2271	Photovoltaic Devices with Methanofullerenes as Electron Acceptors. <b>2002</b> , 106, 11509-11514	27
2270	Dithienothiophene and dithienothiophene-S,S-dioxide copolymers for photovoltaics. <b>2002</b> , 403-404, 66-70	28
2269	Extraction of bulk and contact components of the series resistance in organic bulk donor-acceptor-heterojunctions. <b>2002</b> , 403-404, 297-301	89

2268	Organic co-evaporated films of a PPV-pentamer and C60: model systems for donor/acceptor polymer blends. <b>2002</b> , 403-404, 438-443	33
2267	The influence of materials work function on the open circuit voltage of plastic solar cells. <b>2002</b> , 403-404, 368-372	133
2266	Accurate efficiency determination and stability studies of conjugated polymer/fullerene solar cells. <b>2002</b> , 403-404, 223-228	170
2265	Synthesis, optical properties, and aggregation behavior of a triad system based on perylene and oligo(p-phenylene vinylene) units. <b>2002</b> , 8, 3353-61	77
2264	Photovoltaic devices from fullerene-oligophenyleneethynylene conjugates. <b>2002</b> , 3, 124-7	49
2263	Organic photovoltaic films. <b>2002</b> , 5, 20-27	51
2262	The polymerfullerene interpenetrating network: one route to a solar cell approach. <b>2002</b> , 14, 53-60	42
2261	Macromolecular nanoelectronics. <b>2002</b> , 2, 27-31	11
2260	Organic photovoltaic materials and devices. <b>2002</b> , 3, 523-542	259
2259	Synthesis, optical, and electrochemical properties of novel copolymers on the basis of benzothiadiazole and electron-rich arene units. <b>2002</b> , 40, 2360-2372	40
2258	Processible conjugated polymers: from organic semiconductors to organic metals and superconductors. <b>2002</b> , 27, 135-190	599
2257	Polyaniline composites with fullerene C60. <b>2002</b> , 44, 574-575	11
2256	Synthesis of fullerene-containing polymer composites and investigation of interactions in these systems. <b>2002</b> , 44, 615-616	1
2255	Study of charge generation process in some photosensitizing rhenium diimine complexes. <b>2002</b> , 362, 130-134	11
2254	Solid-State and Flexible Dye-Sensitized TiO <sub>2</sub> Solar Cells: a Study by Electrochemical Impedance Spectroscopy. <b>2002</b> , 106, 5925-5930	287
2253	Photogenerated charge carrier transport in p-polymer n-polymer bilayer structures. <b>2003</b> , 94, 4088-4095	28
2252	Cathode dependence of the open-circuit voltage of polymer:fullerene bulk heterojunction solar cells. <b>2003</b> , 94, 6849-6854	697
2251	Single-electron transport in metal/polyimide:C60/metal junction. <b>2003</b> , 438-439, 369-373	5

2250	Synthesis of $\pi$ -Conjugated Organometallic Polymer Networks. <b>2003</b> , 204, 40-45	15
2249	On the photovoltaic response of the J-domain and the JA-assembly. <b>2003</b> , 80, 257-264	9
2248	Photovoltaic cells based on dye-sensitisation of single-wall carbon nanotubes in a polymer matrix. <b>2003</b> , 80, 465-472	87
2247	Synthesis of copolymers alternating oligophenylenevinylene subunits and fullerene moieties. <b>2003</b> , 44, 4487-4490	9
2246	6-(Arylvinylylene)-3-pyridinylboronic esters. Part 1: Versatile building blocks for conjugated chromophores via Suzuki cross-coupling. <b>2003</b> , 44, 5879-5882	9
2245	Interface and ion-induced optoelectronic effects in thin films of poly(p-phenylene)s functionalised with ion-transporting side chains. <b>2003</b> , 433, 287-291	6
2244	Supramolecular organization in block copolymers containing a conjugated segment: a joint AFM/molecular modeling study. <b>2003</b> , 28, 55-81	148
2243	STM observation of Coulomb staircase behavior through C60 clusters. <b>2003</b> , 3, 397-399	3
2242	Photovoltaic properties of polymer p-n junctions made with P3OT/BBL bilayers. <b>2003</b> , 21, 417-420	20
2241	A technique to compare polythiophene solid-state dye sensitized TiO <sub>2</sub> solar cells to liquid junction devices. <b>2003</b> , 76, 85-105	136
2240	Bulk-heterojunction photovoltaic devices based on donor-acceptor organic small molecule blends. <b>2003</b> , 79, 81-92	154
2239	Modeling the optical absorption within conjugated polymer/fullerene-based bulk-heterojunction organic solar cells. <b>2003</b> , 80, 105-113	156
2238	Supersonic molecular beam growth of thin films of organic materials: A novel approach to controlling the structure, morphology, and functional properties. <b>2003</b> , 41, 2501-2521	42
2237	Nanoscale structure-property relationships in conjugated polymers: Implications for present and future device applications. <b>2003</b> , 41, 2630-2648	43
2236	Novel approaches to polymer blends based on polymer nanoparticles. <b>2003</b> , 2, 408-12	361
2235	Characterization of polymer solar cells by TOF-SIMS depth profiling. <b>2003</b> , 203-204, 547-550	126
2234	Identification and Quantification of Polymerization Defects in <sup>13</sup> C-Labeled Sulfinyl and Gilch OC1C10BPV by NMR Spectroscopy. <b>2003</b> , 36, 5613-5622	56
2233	Vapor deposited solar cells based on heterojunction or interpenetrating networks of zinc phthalocyanine and C60. <b>2003</b> ,	

2232	Synthesis of soluble donor-acceptor double-cable polymers based on polythiophene and tetracyanoanthraquinodimethane (TCAQ). <b>2003</b> , 5, 1669-72	32
2231	Charge Transfer on the Nanoscale: Current Status. <b>2003</b> , 107, 6668-6697	895
2230	Diffusion-limited recombination in polymer-fullerene blends and its influence on photocurrent collection. <b>2003</b> , 67,	321
2229	Indium <sup>III</sup> in Oxide Organic Interfaces. <b>2003</b> , 133-153	3
2228	High Carrier Mobility in a Series of New Semiconducting PPV-Type Polymers. <b>2003</b> , 36, 4374-4384	46
2227	Benzyl Bromide Functionalized Poly(phenyleneethynylene)s: A Novel Approach toward Conjugated Polymers with a Well-Defined Chemical Reactivity. <b>2003</b> , 36, 6716-6721	21
2226	Organic and Plastic Solar Cells. <b>2003</b> , 483-511	
2225	Conjugated polymers as molecular materials: how chain conformation and film morphology influence energy transfer and interchain interactions. <b>2003</b> , 54, 141-72	831
2224	Optical- and photocurrent-detected magnetic resonance studies on conjugated polymer/fullerene composites. <b>2003</b> , 67,	52
2223	High open-circuit voltage photovoltaic devices from carbon-nanotube-polymer composites. <b>2003</b> , 93, 1764-1768	311
2222	Charge carrier transport in poly(2,5-dialkoxy-p-phenylene ethynylene)s. <b>2003</b> , 138, 513-517	20
2221	Photodiodes and solar cells based on the n-type polymer poly(pyridopyrazine vinylene) as electron acceptor. <b>2003</b> , 138, 555-560	36
2220	A double-driven photoelectrochemical cell. <b>2003</b> , 139, 511-514	9
2219	Tuning of the photoinduced charge transfer process in donor-acceptor double-cable copolymers. <b>2003</b> , 139, 731-733	9
2218	Electrochemical Synthesis of C60-Derivatized Poly(thiophene)s from Tailored Precursors. <b>2003</b> , 36, 3020-3025	68
2217	Regiochemically Well-Defined Fluorenone- $\alpha$ -alkylthiophene Copolymers: Synthesis, Spectroscopic Characterization, and Their Postfunctionalization with Oligoaniline. <b>2003</b> , 36, 7045-7054	43
2216	Charge Recombination in Conjugated Polymer/Fullerene Blended Films Studied by Transient Absorption Spectroscopy. <b>2003</b> , 107, 1567-1573	190
2215	Diphenylamino group as an effective handle to conjugated donor-acceptor polymers through electropolymerization. <b>2003</b> , 5, 839-42	108

2214	4 Electrical properties of organic materials. <b>2003</b> , 99, 87-125	35
2213	Insights into Dye-Sensitization of Planar TiO <sub>2</sub> : Evidence for Involvement of a Protonated Surface State. <b>2003</b> , 107, 10971-10973	60
2212	From metal complexes to fullerene arrays: exploring the exciting world of supramolecular photochemistry fifteen years after its birth. <b>2003</b> , 2, 73-87	102
2211	Very Stable Low Band Gap Polymer for Charge Storage Purposes and Near-Infrared Applications. <b>2003</b> , 15, 4923-4929	75
2210	Synthesis of nanostructures based on 1,4- and 1,3,5-ethynylphenyl subunits with pi-extended conjugation. Carbon dendron units. <b>2003</b> , 68, 8120-8	54
2209	Alternating oligo(p-phenylene vinylene)-perylene bisimide copolymers: synthesis, photophysics, and photovoltaic properties of a new class of donor-acceptor materials. <b>2003</b> , 125, 8625-38	184
2208	Synthesis and electropolymerization of fullerene-terthiophene dyads. <b>2003</b> , 1, 2624-5	32
2207	Electric field in phthalocyanine/perylene heterojunction solar cells studied by electroabsorption and photocurrent measurements. <b>2003</b> , 94, 2434-2439	26
2206	Injection-limited electron current in a methanofullerene. <b>2003</b> , 94, 4477-4479	37
2205	Electronic and optical properties of polyfluorene and fluorene-based copolymers: A quantum-chemical characterization. <b>2003</b> , 118, 6615-6623	154
2204	High power spectrometer for the characterization of photovoltaic cells in a controlled atmosphere or vacuum. <b>2003</b> , 74, 3438-3441	24
2203	Modeling of the dynamics of charge separation in an excited poly(phenylene vinylene)/C <sub>60</sub> system. <b>2003</b> , 68,	13
2202	One- and two-photon photocurrents from tunable organic microcavity photodiodes. <b>2003</b> , 82, 2601-2603	9
2201	Vectorial photoinduced electron transfer of phytychlorin-fullerene systems in Langmuir-Blodgett films. <b>2003</b> , 07, 255-263	11
2200	Electrically Active Polymers. <b>2003</b> ,	1
2199	Polymer fullerene bulk heterojunction devices--A route to the plastic solar cells-- <b>2003</b> , TuJ1	
2198	Optimization of organic semiconductor devices by anode modification. <b>2003</b> ,	4
2197	Replicated microstructures with optical functions in solar and display applications. <b>2003</b> , 5184, 60	5

- 2196 Oligothiophene/fullerene Dyads as Active Photovoltaic Materials. **2003**, 32, 404-405 36
- 2195 Photophysics and Applications in Plastic Solar Cells of Conjugated Polymer/Fullerene Composites. **2003**, 11, 679-689 5
- 2194 Multifunctional properties of monodisperse end-functionalized oligophenylenevinylenes. **2004**, 76, 1409-1420 15
- 2193 Enhancement of polymer electronics via surface states on highly doped polymeric anodes. **2004**, 37, 165-170 6
- 2192 Anomalous charge transport behavior of Fullerene based diodes. **2004**, 84, 1570-1572 21
- 2191 Charge and energy dynamics in photo-excited poly(para-phenylenevinylene) systems. **2004**, 121, 1601-8 5
- 2190 Mg-doped C60 thin film as improved n-type organic semiconductor for a solar cell. **2004**, 84, 127-129 31
- 2189 Molecular level control of donor/acceptor heterostructures in organic photovoltaic devices. **2004**, 85, 663-665 21
- 2188 Hybrid nanocrystalline TiO<sub>2</sub> solar cells with a fluorene-thiophene copolymer as a sensitizer and hole conductor. **2004**, 95, 1473-1480 171
- 2187 Stabilization of Film Morphology in Polymer-Fullerene Heterojunction Solar Cells. **2004**, 41, 1467-1487 31
- 2186 Ultrafast photogeneration of charged polarons on conjugated polymer chains in dilute solution. **2004**, 70, 29
- 2185 Influence of buffer layers on the performance of polymer solar cells. **2004**, 84, 3906-3908 102
- 2184 Excitonic splitting in conjugated molecular materials: A quantum mechanical model including interchain interactions and dielectric effects. **2004**, 70, 10
- 2183 Electric field-assisted bipolar charge spouting in organic thin-film diodes. **2004**, 84, 440-442 107
- 2182 Infrared photocurrent spectral response from plastic solar cell with low-band-gap polyfluorene and fullerene derivative. **2004**, 85, 5081-5083 193
- 2181 Theoretical Investigations of Polymer Based Solar Cells. **2004**, 822, S7.7.1 1
- 2180 Fabrication of Nanorod Arrays for Organic Solar Cell Applications. **2004**, 836, L2.5.1
- 2179 An original flexible structure for Organic Photovoltaic Devices. **2004**, 814, 353



2178	Low-level optical absorption phenomena in organic thin films for solar cell applications investigated by highly sensitive photocurrent and photothermal techniques. <b>2004,</b>	5
2177	Thermodynamics of Solar Cells. <b>2004,</b> 321-341	
2176	Molecular Assembly of Fullerenes as Nanoclusters and Nanostructured Films. <b>2004,</b> 475-494	1
2175	Nanoscale Materials. <b>2004,</b>	32
2174	Benzyl Bromide Functionalized Poly(Phenyleneethynylene)s as Macroinitiators in the Atom Transfer Radical Polymerization of Methyl Methacrylate. <b>2004,</b> 41, 637-647	8
2173	Low-band gap polymers for photovoltaic applications. <b>2004,</b> 451-452, 7-11	142
2172	Polymer solar cells with novel fullerene-based acceptor. <b>2004,</b> 451-452, 43-47	43
2171	Vapor deposited solar cells based on heterojunction or interpenetrating networks of zinc phthalocyanine and C60. <b>2004,</b> 451-452, 81-85	18
2170	Charge mobility and photovoltaic behaviour of carbocyanine dye layers deposited by thermal evaporation in vacuum. <b>2004,</b> 451-452, 109-111	14
2169	Self-assembled chromophores for hybrid solar cells. <b>2004,</b> 451-452, 16-21	30
2168	Hybrid solar cells based on inorganic nanoclusters and conjugated polymers. <b>2004,</b> 451-452, 612-618	71
2167	Diffraction gratings and buried nano-electrodes architectures for organic solar cells. <b>2004,</b> 451-452, 619-623	92
2166	Hybrid TiO <sub>2</sub> :polymer photovoltaic cells made from a titanium oxide precursor. <b>2004,</b> 451-452, 634-638	61
2165	Printable anodes for flexible organic solar cell modules. <b>2004,</b> 451-452, 22-25	195
2164	Photogeneration of charge carriers in blends of conjugated polymers and semiconducting nanoparticles. <b>2004,</b> 451-452, 48-53	25
2163	The application of a low-bandgap conjugated oligomer for the sensitization of SnO <sub>2</sub> and TiO <sub>2</sub> . <b>2004</b> , 451-452, 54-59	18
2162	Morphological dependence of charge generation and transport in blended polyfluorene photovoltaic devices. <b>2004,</b> 451-452, 567-571	35
2161	Electrical aspects of operation of polymer fullerene solar cells. <b>2004,</b> 451-452, 493-497	19

2160	Charge recombination in polymer/fullerene photovoltaic devices. <b>2004</b> , 451-452, 508-514	44
2159	New conjugated polyketanils: tuning of optical properties via chain design and protonic doping. <b>2004</b> , 453-454, 362-366	10
2158	Modeling of optical absorption in conjugated polymer/fullerene bulk-heterojunction plastic solar cells. <b>2004</b> , 451-452, 589-592	77
2157	Photovoltaic devices based on a novel poly(phenylene ethynylene) derivative. <b>2004</b> , 140, 199-202	17
2156	Comparison of photovoltaic devices based on MEH-PPV with various molecular weights. <b>2004</b> , 49, 2259	6
2155	Factors limiting the efficiency of molecular photovoltaic devices. <b>2004</b> , 69,	158
2154	Dynamics of higher photoexcited states in m-LPPP probed with sub-20 fs time resolution. <b>2004</b> , 384, 251-255	17
2153	Organic p-i-n solar cells. <b>2004</b> , 79, 1-14	291
2152	Mechanisms controlling the efficiency of polymer solar cells. <b>2004</b> , 79, 21-25	63
2151	Low bandgap alternating polyfluorene copolymers in plastic photodiodes and solar cells. <b>2004</b> , 79, 31-35	167
2150	Fullerene $\pi$ ligophenyleneethynylene conjugates: relationships between charge-carrier mobility, photovoltaic characteristics and chemical structure. <b>2004</b> , 79, 47-49	30
2149	A fullerene-based dyad for organic photovoltaic cells. <b>2004</b> , 79, 51-58	14
2148	Morphology effects in nanocrystalline CuInSe <sub>2</sub> -conjugated polymer hybrid systems. <b>2004</b> , 79, 59-64	39
2147	Plastic photovoltaic devices. <b>2004</b> , 7, 36-40	89
2146	Ellipsometry study of the photo-oxidation of poly[(2-methoxy-5-hexyloxy)- p-phenylenevinylene]. <b>2004</b> , 42, 1033-1041	31
2145	Design and synthesis of Ru(II-bipyridyl)-containing conjugated polymers. <b>2004</b> , 42, 722-732	14
2144	Nanoscale Morphology of Conjugated Polymer/Fullerene-Based Bulk- Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , <b>2004</b> , 14, 1005-1011	15.6 672
2143	Aggregate States and Energetic Disorder in Highly Ordered Nanostructures of para-Sexiphenyl Grown by Hot Wall Epitaxy. <i>Advanced Functional Materials</i> , <b>2004</b> , 14, 970-978	15.6 22

2142	The Origin of Collected Charge and Open-Circuit Voltage in Blended Polyfluorene Photovoltaic Devices. <b>2004</b> , 16, 1640-1645	115
2141	Multiscale Scanning Tunneling Microscopy Study of Self-Assembly Phenomena in Two-Dimensional Polycrystals of $\pi$ -Conjugated Polymers: The Case of Regioregular Poly(dioctylbithiophene- <i>alt</i> -fluorenone). <b>2004</b> , 16, 2087-2092	39
2140	A New Iterative Approach for the Synthesis of Oligo(phenyleneethynediyl) Derivatives and Its Application for the Preparation of Fullerene/Oligo(phenyleneethynediyl) Conjugates as Active Photovoltaic Materials. <b>2004</b> , 87, 2948-2966	41
2139	Synthesis and complete NMR spectral assignment of thiophene-substituted sulfinyl monomers. <b>2004</b> , 42, 931-7	3
2138	MIP-type organic solar cells incorporating phthalocyanine/fullerene mixed layers and doped wide-gap transport layers. <b>2004</b> , 5, 175-186	82
2137	Poly(3-methylthiophene)-based photovoltaic devices prepared onto tin-oxide/sulfonated-polyaniline electrodes. <b>2004</b> , 6, 357-360	17
2136	Photo-physical and electro-optical properties of polythiophenes bearing tetrahydropyran side groups. <b>2004</b> , 40, 2659-2664	8
2135	Light-harvesting composites of directly connected porphyrin/phthalocyanine dyads and their coordination dimers. <b>2004</b> , 45, 7617-7620	62
2134	A brief history of the development of organic and polymeric photovoltaics. <b>2004</b> , 83, 125-146	939
2133	Optical modelling of a layered photovoltaic device with a polyfluorene derivative/fullerene as the active layer. <b>2004</b> , 83, 169-186	50
2132	Fullerene-( $\pi$ -conjugated oligomer) dyads as active photovoltaic materials. <b>2004</b> , 83, 187-199	94
2131	Photophysics and photovoltaic device properties of phthalocyanine/fullerene dyad:conjugated polymer mixtures. <b>2004</b> , 83, 201-209	59
2130	Synthesis of dye linked conducting block copolymers, dye linked conducting homopolymers and preliminary application to photovoltaics. <b>2004</b> , 83, 211-228	29
2129	Influence of molecular architecture and intermixing on the photovoltaic, morphological and spectroscopic properties of CuPc/C60 heterojunctions. <b>2004</b> , 83, 229-245	125
2128	Patterns of efficiency and degradation of composite polymer solar cells. <b>2004</b> , 83, 247-262	108
2127	Production of large-area polymer solar cells by industrial silk screen printing, lifetime considerations and lamination with polyethyleneterephthalate. <b>2004</b> , 83, 293-300	216
2126	Flexible large area polymer solar cells based on poly(3-hexylthiophene)/fullerene. <b>2004</b> , 85, 13-13	19
2125	Polymers containing fullerene or carbon nanotube structures. <b>2004</b> , 29, 1079-1141	399

2124	Multilayer vesicles and vesicle clusters formed by the fullerene-based surfactant C60(CH3)5K. <b>2004</b> , 275, 632-41	57
2123	Electropolymerisable bipyridine ruthenium(II) complexes: synthesis, spectroscopic and electrochemical characterisation of 4-((2-thienyl) ethenyl)- and 4,4'-di((2-thienyl) ethenyl)-2,2'-bipyridine ruthenium complexes. <b>2004</b> , 23, 589-598	17
2122	Study of the nanomorphology of OC1C10-PPV/precursor-PPV blends by solid state NMR relaxometry. <b>2004</b> , 45, 4499-4505	9
2121	Consequences of twisting the aromatic core of N,N'-dimethylperylene-3,4,9,10-bis(carboximide) by chemical substitution for the electronic coupling and electric transport in thin films. <b>2004</b> , 5, 237-249	19
2120	Photoelectrochemical cells based on a novel porphyrin containing light harvesting conducting copolymer. <b>2004</b> , 49, 329-337	31
2119	Significantly enhanced photocurrent efficiency of a poly(3-hexylthiophene) photoelectrochemical device by doping with the endohedral metallofullerene Dy@C82. <b>2004</b> , 388, 253-258	28
2118	Negative electric field dependence of charge carrier drift mobility in conjugated, semiconducting polymers. <b>2004</b> , 389, 438-442	130
2117	Polymer photovoltaic cells based on conjugated polymer/fullerene composites. <b>2004</b> , 4, 323-326	10
2116	Fullerene-containing macromolecules for materials science applications. <b>2004</b> , 42, 1077-1083	29
2115	Characterization of poly(p-phenylene vinylene)/methanofullerene blends of polymer solar cells by time-of-flight secondary ion mass spectrometry. <b>2004</b> , 231-232, 274-277	17
2114	Intramolecular charge transfer in bipolar molecules for electron and hole transporting materials. <b>2004</b> , 6, 2276	2
2113	Photovoltaic action of conjugated polymer/fullerene bulk heterojunction solar cells using novel PPE-PPV copolymers. <b>2004</b> , 14, 3462-3467	109
2112	Correlation between the Microscopic Morphology and the Solid-State Photoluminescence Properties in Fluorene-Based Polymers and Copolymers. <b>2004</b> , 16, 994-1001	133
2111	3,4-Phenylenedioxythiophene (PheDOT): a novel platform for the synthesis of planar substituted donor conjugated systems. <b>2004</b> , 14, 1396-1400	44
2110	Near-Field Scanning Photocurrent Measurements of Polyfluorene Blend Devices: Directly Correlating Morphology with Current Generation. <b>2004</b> , 4, 2503-2507	76
2109	Langmuir-Blodgett Films of Poly(3-hexylthiophene) Doped with the Endohedral Metallofullerene [email protected]: Preparation, Characterization, and Application in Photoelectrochemical Cells. <b>2004</b> , 108, 4394-4404	62
2108	Quadrimeric recombination kinetics of photogenerated charge carriers in regioregular poly(3-alkylthiophene)/fullerene composites. <b>2004</b> , 84, 1317-1319	41
2107	Photoenhanced injection currents in organic solar cells. <b>2004</b> , 85, 1042-1044	4

2106	Nanoscale Organization of Fullerenes by Self-Assembly in a Diblock Copolymer Host Matrix. <b>2004</b> , 37, 9056-9063	21
2105	Enhanced efficiency of plastic photovoltaic devices by blending with ionic solid electrolytes. <b>2004</b> , 84, 3181-3183	28
2104	Assembly and characterization of novel hydrogen-bond-induced nanoscale rods. <b>2004</b> , 69, 9049-54	57
2103	Two-Dimensional Model for Polymer-Based Photovoltaic Cells: Numerical Simulations of Morphology Effects. <b>2004</b> , 108, 4296-4307	40
2102	Anomalous Exciton Diffusion in the Conjugated Polymer MEHBPV Measured Using a Three-Pulse Pump-Dump-Probe Anisotropy Experiment. <b>2004</b> , 108, 10801-10806	42
2101	Formation of Single-Crystal-like Poly(9,9-dioctylfluorene) Thin Film by the Friction-Transfer Technique with Subsequent Thermal Treatments. <b>2004</b> , 37, 6926-6931	101
2100	Photophysics and Photochemistry of Stilbene-Containing Platinum Acetylides. <b>2004</b> , 108, 4969-4978	84
2099	A Nanoparticle Approach To Control the Phase Separation in Polyfluorene Photovoltaic Devices. <b>2004</b> , 37, 4882-4890	137
2098	Novel Regiospecific MDMOBPV Copolymer with Improved Charge Transport for Bulk Heterojunction Solar Cells. <b>2004</b> , 108, 5235-5242	81
2097	Exceptionally long-range self-assembly of hexa-peri-hexabenzocoronene with dove-tailed alkyl substituents. <b>2004</b> , 126, 8074-5	151
2096	4-Hexylbithieno[3,2-b:2'6']pyridine: An Efficient Electron-Accepting Unit in Fluorene and Indenofluorene Copolymers for Light-Emitting Devices. <b>2004</b> , 37, 709-715	53
2095	Highly functionalized tetrathiafulvalenes: riding along the synthetic trail from electrophilic alkynes. <b>2004</b> , 104, 5151-84	147
2094	Alternating Aromatic and Transannular Chromophores with and without Linker: Effect of Transannular Interaction on the Optical Property of Dithiaparacyclophane-based Copolymers. <b>2004</b> , 37, 3546-3553	42
2093	Ion implantation effect on vapor deposited organic solar cells based on pn junctions or interpenetrating networks of donor and acceptor small molecules. <b>2004</b> ,	
2092	Self-assembly and characterization of a novel hydrogen-bonded nanostructure. <b>2004</b> , 108, 6256-60	68
2091	Photoinduced charge transfer in composites of conjugated polymers and semiconductor nanocrystals. <b>2004</b> , 15, 163-170	77
2090	Organic Photovoltaic Devices Based on Blends of Regioregular Poly(3-hexylthiophene) and Poly(9,9-dioctylfluorene-co-benzothiadiazole). <b>2004</b> , 16, 4812-4818	211
2089	Supramolecular Ordering, Thermal Behavior, and Photophysical, Electrochemical, and Electroluminescent Properties of Alkoxy-Substituted Yne-Containing Poly(phenylenevinylene)s. <b>2004</b> , 37, 7451-7463	32

2088	Synthesis and electropolymerization of novel oligothiophene-functionalized perylene bisimides. <b>2004</b> , 2030-1	44
2087	Chelating ligands for nanocrystals' surface functionalization. <b>2004</b> , 126, 11574-82	146
2086	Liquid-crystalline fullereneferrocene dyads. <b>2004</b> , 14, 1266-1272	86
2085	Synthesis and electrolytic polymerization of the ethylenedioxy-substituted terthiophene-fullerene dyad. <b>2004</b> , 6, 4865-8	58
2084	Donor-acceptor polythiophene copolymers with tunable acceptor content for photoelectric conversion devices. <b>2004</b> , 14, 67-74	32
2083	Employing end-functional polythiophene to control the morphology of nanocrystal-polymer composites in hybrid solar cells. <b>2004</b> , 126, 6550-1	423
2082	Long-range absorption enhancement in organic tandem thin-film solar cells containing silver nanoclusters. <b>2004</b> , 96, 7519-7526	513
2081	Recent Advances and Future Opportunities for Thin-Film Solar Cells. <b>2004</b> , 15-42	1
2080	Excitonic coupling in polythiophenes: comparison of different calculation methods. <b>2004</b> , 120, 2490-5	144
2079	Ladder-type pentaphenylenes and their polymers: efficient blue-light emitters and electron-accepting materials via a common intermediate. <b>2004</b> , 126, 6987-95	207
2078	Morphology and Thermal Stability of the Active Layer in Poly(p-phenylenevinylene)/Methanofullerene Plastic Photovoltaic Devices. <b>2004</b> , 37, 2151-2158	325
2077	Direct Photocurrent Mapping of Organic Solar Cells Using a Near-Field Scanning Optical Microscope. <b>2004</b> , 4, 219-223	74
2076	Characterization of the molecular parameters determining charge transport in anthradithiophene. <b>2004</b> , 120, 8186-94	137
2075	Preparation and Properties of 2,7-Linked N-Alkyl-9H-carbazole Main-Chain Polymers. <b>2004</b> , 16, 442-448	118
2074	Subphthalocyanines: tuneable molecular scaffolds for intramolecular electron and energy transfer processes. <b>2004</b> , 126, 6301-13	201
2073	Giant multiporphyrin arrays as artificial light-harvesting antennas. <b>2004</b> , 108, 6130-43	330
2072	Wavelength and Temperature Dependence of the Femtosecond Pump-Probe Anisotropies in the Conjugated Polymer MEH-PPV: Implications for Energy-Transfer Dynamics. <b>2004</b> , 108, 4619-4626	75
2071	Synthesis and Optical Properties of Copolymers Containing Side Chain Oxadiazole Blocks and a Rigid Central Moiety. <b>2004</b> , 16, 2648-2655	31

2070	Organic photorefractives: mechanisms, materials, and applications. <b>2004</b> , 104, 3267-314	387
2069	Tetrathiafulvalenes, oligoacenes, and their buckminsterfullerene derivatives: the brick and mortar of organic electronics. <b>2004</b> , 104, 4891-946	1485
2068	Synthesis, characterization and optical properties of oligoketaniols containing carbon-carbon double bond in the main chain. <b>2004</b> , 143, 331-339	29
2067	Weak charge-transfer complexes based on conjugated polymers for plastic solar cells. <b>2004</b> , 147, 221-225	47
2066	Vapour deposited solar cells based on CuPc/C60 single heterojunction: optimization of the deposition process. <b>2004</b> , 147, 293-298	28
2065	Transport and luminescence in naphthyl phenylamine model compounds. <b>2004</b> , 147, 199-203	24
2064	Influence of a non-ionic surfactant on the UV-vis absorption features of regioregular head-to-tail poly(3-hexylthiophene) in water-based dispersions. <b>2004</b> , 147, 149-154	11
2063	Direct influence of morphology on current generation in conjugated polymer:methanofullerene solar cells measured by near-field scanning photocurrent microscopy. <b>2004</b> , 147, 101-104	25
2062	Properties of MEH-PPV films prepared by slow solvent evaporation. <b>2004</b> , 147, 287-291	36
2061	Organic solar cells: An overview. <b>2004</b> , 19, 1924-1945	2012
2060	Charge-transfer and energy-transfer processes in pi-conjugated oligomers and polymers: a molecular picture. <b>2004</b> , 104, 4971-5004	2271
2059	Exciton regeneration at polymeric semiconductor heterojunctions. <b>2004</b> , 92, 247402	375
2058	Synthesis, Characterization, and Photophysical, Electrochemical, Electroluminescent, and Photovoltaic Properties of Yne-Containing CNBPVs. <b>2004</b> , 37, 8863-8873	62
2057	Asymmetric tandem organic photovoltaic cells with hybrid planar-mixed molecular heterojunctions. <b>2004</b> , 85, 5757-5759	520
2056	Dispersive and nondispersive recombination of photoexcitations in disordered organic solids. <b>2004</b> , 69,	13
2055	Towards roll-to-roll fabrication of electronics, optics, and optoelectronics for smart and intelligent packaging. <b>2004</b> ,	23
2054	Design and Development of Novel 2-D Oligomers for Electroactive Device Application <b>2004</b> , 108, 8673-8681	36
2053	An alternative method to build organic photodiodes. <b>2004</b> , 140, 281-286	21

2052	Morphology and fluorescence quenching in photovoltaic samples containing fullerene and poly(p-phenylene-vinylene) derivatives. <b>2004</b> , 141, 271-275	19
2051	Exciton diffusion and dissociation in conjugated polymer/fullerene heterostructures. <b>2004</b> , 5464, 449	2
2050	Characterization of potential donor acceptor pairs for polymer solar cells by ESR, optical, and electrochemical investigations. <b>2004</b> ,	21
2049	Pi-stacked thin films of pentacene on Au(111). <b>2004</b> ,	
2048	Intelligent Polymer Systems. <b>2004</b> ,	
2047	Photosensitive materials. <b>2005</b> , 63-83	1
2046	Materials and technologies for photovoltaic applications from Estonia. <b>2005</b> ,	
2045	Dynamical simulation of exciton dissociation in poly(para-phenylenevinylene) systems. <b>2005</b> , 112, 357-362	4
2044	Electrical aspects of photovoltaic devices based on bi-layer organic semiconducting materials. <b>2005</b> , 36, 995-997	6
2043	The influence of the optoelectronic properties of poly(3-alkylthiophenes) on the device parameters in flexible polymer solar cells. <b>2005</b> , 6, 65-77	179
2042	Morphological and electronic consequences of modifications to the polymer anode PEDOT:PSS. <b>2005</b> , 46, 2573-2578	122
2041	Synthesis, optical and morphological characterization of soluble main chain 1,3,4-oxadiazole copolyarylethers. Potential candidates for solar cells applications as electron acceptors. <b>2005</b> , 46, 4654-4663	34
2040	Poly(p-phenylene vinylene) derivatives with ester- and carboxy-functionalized substituents: a versatile platform towards polar functionalized conjugated polymers. <b>2005</b> , 46, 5466-5475	18
2039	Green/Blue luminescence dichroism of cyano-containing poly[(m-phenylene ethynylene)-alt-(p-phenylene ethynylene)] aggregates dispersed in oriented polyethylene. <b>2005</b> , 46, 11198-11205	31
2038	Film morphology effects on the electrical and optical properties of bulk heterojunction organic solar cells based on MEH-PPV/C60 composite. <b>2005</b> , 25, 67-75	43
2037	Hexa-peri-hexabenzocoronene/perylenedicarboxy monoimide and diimide dyads as models to study intramolecular energy transfer. <b>2005</b> , 46, 1565-1568	28
2036	Perylene-3,4:9,10-bis(dicarboximide) linked to [60]fullerene as a light-harvesting antenna. <b>2005</b> , 46, 4599-4603	32
2035	Nanostructured conjugated polymer films for electroluminescent and photovoltaic applications. <b>2005</b> , 477, 187-192	9



2034	Phenylene-ethynylene/phenylene-vinylene hybrid polymers: optical and electrochemical characterization, comparison with poly[2-methoxy-5-(3,7-dimethyloctyloxy)-1,4-phenylene vinylene] and application in flexible polymer solar cells. <b>2005</b> , 474, 201-210	50
2033	Development of air stable polymer solar cells using an inverted gold on top anode structure. <b>2005</b> , 476, 340-343	157
2032	Monolayer passivation of the transparent electrode in organic solar cells. <b>2005</b> , 488, 270-273	32
2031	The effect of side chains on the performance of solar cells fabricated from poly[2-methoxy-5-(2-ethylhexoxy)-1,4-phenylene vinylene] and C60 dicarboxylate. <b>2005</b> , 489, 251-256	13
2030	Organic solar cells using inverted layer sequence. <b>2005</b> , 491, 298-300	166
2029	Micro-patterning of organic light emitting diodes using self-organised honeycomb ordered polymer films. <b>2005</b> , 492, 307-312	48
2028	Photovoltaic cells based on the blend of MEH-PPV and polymers with substituents containing C60 moieties. <b>2005</b> , 85, 241-249	21
2027	Study of field effect mobility in PCBM films and P3HT:PCBM blends. <b>2005</b> , 87, 149-156	104
2026	Temperature-dependent properties of organic-on-inorganic Ag/p-CuPc/n-GaAs/Ag photoelectric cell. <b>2005</b> , 87, 61-75	87
2025	Molecular films based on polythiophene and fullerol: theoretical and experimental studies. <b>2005</b> , 87, 33-47	17
2024	Comparison of normal and inverse poly(3-hexylthiophene)/fullerene solar cell architectures. <b>2005</b> , 85, 277-283	164
2023	Absorption spectra modification in poly(3-hexylthiophene):methanofullerene blend thin films. <b>2005</b> , 411, 138-143	251
2022	Intramolecular charge transfer and locally excited states of the fullerene-linked quarter-thiophenes dyad. <b>2005</b> , 413, 110-117	30
2021	Role of dielectric properties in organic photovoltaic devices. <b>2005</b> , 416, 327-330	11
2020	Alkyl chain effects in thin films of substituted phthalocyanines studied using infrared spectroscopy. <b>2005</b> , 252, 139-142	6
2019	Formation dynamics of bipolaron in a metal/polymer/metal structure. <b>2005</b> , 48, 501-508	11
2018	Flexible Conjugated Polymer-Based Plastic Solar Cells: From Basics to Applications. <b>2005</b> , 93, 1429-1439	126
2017	Complexation of pyrrolidinofullerenes and zinc-phthalocyanine in a bilayer organic solar cell structure. <b>2005</b> , 87, 244102	60

2016	Charge-carrier concentration dependence of the hopping mobility in organic materials with Gaussian disorder. <b>2005</b> , 72,	361
2015	Synthesis, processing and properties of conjugated polymer networks. <b>2005</b> , 5378-89	67
2014	High-efficiency solution processable polymer photovoltaic cells by self-organization of polymer blends. <b>2005</b> , 4, 864-868	4965
2013	Spin and magnetic field effects in organic semiconductor devices. <b>2005</b> , 152, 385	11
2012	The Associative Properties of Some Amphiphilic Fullerene Derivatives. <b>2005</b> , 2005, 1884-1891	16
2011	Photophysical characterization of light-emitting poly(indenofluorene)s. <b>2005</b> , 6, 1650-60	35
2010	Direct measurement of the end-to-end distance of individual polyfluorene polymer chains. <b>2005</b> , 6, 2286-94	48
2009	Single-wall carbon nanotubes as integrative building blocks for solar-energy conversion. <b>2005</b> , 44, 2015-8	219
2008	Multiple addressing in a hybrid biphotochromic system. <b>2005</b> , 44, 5048-52	67
2007	The chemistry of organic nanomaterials. <b>2005</b> , 44, 5592-629	623
2006	Ion-coordinating sensitizer in solid-state hybrid solar cells. <b>2005</b> , 44, 6413-7	72
2005	Single-Wall Carbon Nanotubes as Integrative Building Blocks for Solar-Energy Conversion. <b>2005</b> , 117, 2051-2054	50
2004	Multiple Addressing in a Hybrid Biphotochromic System. <b>2005</b> , 117, 5176-5180	3
2003	Die Chemie organischer Nanomaterialien. <b>2005</b> , 117, 5732-5772	138
2002	Ion-Coordinating Sensitizer in Solid-State Hybrid Solar Cells. <b>2005</b> , 117, 6571-6575	9
2001	Enhancement of Field-Effect Mobility Due to Surface-Mediated Molecular Ordering in Regioregular Polythiophene Thin Film Transistors. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 77-82	15.6 418
2000	The Effect of Annealing on the Charge-Carrier Dynamics in a Polymer/Polymer Bulk Heterojunction for Photovoltaic Applications. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 469-474	15.6 33
1999	Influence of the Relative Humidity on the Performance of Polymer/TiO <sub>2</sub> Photovoltaic Cells. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 689-694	15.6 46

1998	Ambipolar Charge Transport in Films of Methanofullerene and Poly(phenylenevinylene)/Methanofullerene Blends. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 1171-1182	15.6	220
1997	Compositional Dependence of the Performance of Poly(p-phenylene vinylene):Methanofullerene Bulk-Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 795-801	15.6	363
1996	Control of the Homeotropic Order of Discotic Hexa-peri-hexabenzocoronenes. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 893-904	15.6	128
1995	Polymer Solar Cells Based on a Low-Bandgap Fluorene Copolymer and a Fullerene Derivative with Photocurrent Extended to 850 nm. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 745-750	15.6	214
1994	Enhanced Photocurrent Spectral Response in Low-Bandgap Polyfluorene and C70-Derivative-Based Solar Cells. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 1665-1670	15.6	162
1993	Plastic Solar Cells Based on Fluorenone-Containing Oligomers and Regioregular Alternate Copolymers. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 1547-1552	15.6	40
1992	New Composite MoS <sub>2</sub> /C <sub>60</sub> Crystals. <b>2005</b> , 17, 911-914		18
1991	A Hybrid Planar Mixed Molecular Heterojunction Photovoltaic Cell. <b>2005</b> , 17, 66-71		463
1990	A Zone-Casting Technique for Device Fabrication of Field-Effect Transistors Based on Discotic Hexa-peri-hexabenzocoronene. <b>2005</b> , 17, 684-689		576
1989	Organic Donor-Acceptor System Exhibiting Electrical Bistability for Use in Memory Devices. <b>2005</b> , 17, 1440-1443		371
1988	Fabrication of Three-Dimensional Nanostructures Using Reactive Polymer Nanosheets. <b>2005</b> , 17, 1857-1861		34
1987	Solid-State Olefin Metathesis: ADMET of Rigid-Rod Polymers and Ring-Closing Metathesis. <b>2005</b> , 206, 15-24		27
1986	Novel Alternating Dioctyloxyphenylene Vinylene-Benzothiadiazole Copolymer: Synthesis and Photovoltaic Performance. <b>2005</b> , 206, 664-671		29
1985	Novel C <sub>60</sub> -Anchored Two-Armed Poly(tert-butyl acrylate): Synthesis and Characterization. <b>2005</b> , 26, 1179-1184		16
1984	Side Chain Influence on Electrochemical and Photovoltaic Properties of Yne-Containing Poly(phenylene vinylene)s. <b>2005</b> , 26, 1389-1394		67
1983	Giant meso-meso-linked porphyrin arrays of micrometer molecular length and their fabrication. <b>2005</b> , 11, 3389-404		93
1982	Synthesis, photophysics, and photoresponse of fullerene-based azaromatic dyads. <b>2005</b> , 11, 5765-76		16
1981	A comparison of the photovoltaic response of head-to-head and head-to-tail coupled poly((benzo-2,1,3-thiadiazol-4,7-diyl)-(dihexyl[2,2]dithiophene-5,5-diyl)). <b>2005</b> , 55, 157-164		24

1980	Influence of dopant size on the junction properties of polyaniline. <b>2005</b> , 116, 125-130	34
1979	The role of molecular architecture and layer composition on the properties and performance of CuPc-C60 photovoltaic devices. <b>2005</b> , 25, 858-865	25
1978	Thiophene-containing poly(aryleneethynylene)-alt-poly(arylenevinylene)s: Synthesis, characterisation and optical properties. <b>2005</b> , 46, 9585-9595	29
1977	Large magnetoresistance at room-temperature in small-molecular-weight organic semiconductor sandwich devices. <b>2005</b> , 134, 631-636	98
1976	Composition and annealing effects in polythiophene/fullerene solar cells. <b>2005</b> , 40, 1371-1376	177
1975	Monte Carlo modelling of hole transport in MDMO-PPV: PCBM blends. <b>2005</b> , 40, 1393-1398	24
1974	Absorption phenomena in organic thin films for solar cell applications investigated by photothermal deflection spectroscopy. <b>2005</b> , 40, 1413-1418	132
1973	Relevance of the diastereotopic ligation of magnesium atoms of chlorophylls in the major light-harvesting complex II (LHC II) of green plants. <b>2005</b> , 86, 251-62	28
1972	(Z)-2,3-Bis(2-phenylindolizin-3-yl)-2-butenedinitrile. <b>2005</b> , 61, o445-o447	1
1971	Prediction and phase segregation in thin-film of conjugated polymer blends. <b>2005</b> , 43, 1382-1391	8
1970	Donor-acceptor copolymers for red- and near-infrared-emitting polymer light-emitting diodes. <b>2005</b> , 43, 1417-1431	91
1969	Fluorene-based alternating polymers containing electron-withdrawing bithiazole units: Preparation and device applications. <b>2005</b> , 43, 1845-1857	86
1968	Solution route to inorganic nanobelt-conducting organic polymer core-shell nanocomposites. <b>2005</b> , 43, 2892-2900	50
1967	High electroluminescent properties of conjugated copolymers from poly[9,9-dioctylfluorenyl-2,7-vinylene]-co-(2-(3-dimethyldodecylsilylphenyl)-1,4-phenylene vinylene)] for light-emitting diode applications. <b>2005</b> , 43, 5062-5071	12
1966	Synthesis and properties of poly(heteroaryleneethynylene)s consisting of electron-accepting benzothiadiazole/quinoxaline units and electron-donating alkyl thiophene units. <b>2005</b> , 43, 6445-6454	43
1965	Charge Generation in Inorganic/Organic Photovoltaic Blends. <b>2005</b> , 783-785	1
1964	Kelvin Probe Force Microscopy Study of Conjugated Polymer/Fullerene Organic Solar Cells. <b>2005</b> , 44, 5370-5373	44
1963	Materials for solar cells. <b>2005</b> , 3-34	3

1962	Improvement of Heterojunction Donor/Acceptor Organic Photovoltaic Devices by Employing Additional Active Layer. <b>2005</b> , 44, 1974-1977	6
1961	Dye Doping of Poly(p-phenylenevinylene)s by Vapor Transportation for Photovoltaic Application. <b>2005</b> , 44, 630-632	1
1960	Polymer Solar Cell Prepared by a Novel Vacuum Spray Method. <b>2005</b> , 44, 656-657	17
1959	Correlation between Inner Electric Field and Photocurrent of Zn-Phthalocyanine Schottky-Barrier Cells. <b>2005</b> , 44, 60-66	12
1958	New architecture for thermally stable high efficiency polymer solar cells. <b>2005</b> , 5938, 34	
1957	Hybrid solar cells based on inorganic thin film structures and conjugated polymers. <b>2005</b> , 5946, 230	1
1956	Highly sensitive thin-film organic phototransistors: Effect of wavelength of light source on device performance. <b>2005</b> , 98, 074505	166
1955	Perylene monolayer on the Ru(0001) surface. <b>2005</b> , 86, 061915	11
1954	Keto defect sites in fluorene-based organic field-effect transistors: The origin of rapid degradation on the performance of the device. <b>2005</b> , 97, 104504	23
1953	Bandlike transport in pentacene and functionalized pentacene thin films revealed by subpicosecond transient photoconductivity measurements. <b>2005</b> , 71,	135
1952	Dynamics of exciton diffusion in poly(p-phenylene vinylene)/fullerene heterostructures. <b>2005</b> , 72,	79
1951	Migration-assisted energy transfer at conjugated polymer/metal interfaces. <b>2005</b> , 72,	46
1950	Electromechanical strain in conjugated polymer diodes under forward and reverse bias. <b>2005</b> , 86, 193507	6
1949	Mixed donor-acceptor molecular heterojunctions for photovoltaic applications. I. Material properties. <b>2005</b> , 98, 124902	166
1948	Optimization of the charge transport in poly(phenylene vinylene) derivatives by processing and chemical modification. <b>2005</b> , 97, 123703	20
1947	Field and temperature dependence of the photocurrent in polymer/fullerene bulk heterojunction solar cells. <b>2005</b> , 87, 122104	44
1946	Solid-state electrochromic devices based on poly (phenylene vinylene) polymers. <b>2005</b> , 86, 123504	20
1945	Ultrafast dynamics of charge carrier photogeneration and geminate recombination in conjugated polymer:fullerene solar cells. <b>2005</b> , 72,	111

1944	Organic p-n Type Heterostructures Based on the Hexatiopentacene. <b>2005</b> , 426, 265-276	8
1943	Modelling hole transport in conjugated polymers and blends for solar cell applications.	1
1942	Employing engineering methods for the analysis of OLEDs. <b>2005</b> ,	
1941	Charge Carrier Photogeneration and Transport in Organic Photoconducting Polymer Nanocomposites Based on Polyimides. <b>2005</b> , 426, 139-147	5
1940	Hydrogen Bonding Self-Assembly of Functionalized [60]Fullerene with a Barbituric Acid Derivative. <b>2005</b> , 13, 193-202	
1939	Variable band gap conjugated polymers for optoelectronic and redox applications. <b>2005</b> , 20, 3188-3198	42
1938	Magnetic Field Sensors Based on Magnetoresistance Effect in Organic Semiconductor Sandwich Devices. <b>2005</b> , 906, 1	
1937	Large Magnetoresistance at Room Temperature in Organic Semiconductor Sandwich Devices. <b>2005</b> , 871, 1	1
1936	Organic and plastic solar cells. <b>2005</b> , 419-447	2
1935	Photoelectron Spectroscopy of the Contact between the Cathode and the Active Layers in Plastic Solar Cells: The Role of LiF. <b>2005</b> , 44, 3695-3701	99
1934	Applications of hybrid organic/inorganic nanocomposites. <b>2005</b> , 15, 3559	2121
1933	Time-dependent mobility and recombination of the photoinduced charge carriers in conjugated polymer/fullerene bulk heterojunction solar cells. <b>2005</b> , 72,	180
1932	Electroluminescence in polymer-fullerene photovoltaic cells. <b>2005</b> , 86, 183502	63
1931	Materials for organic solar cells: the C60/pi-conjugated oligomer approach. <b>2005</b> , 34, 31-47	487
1930	Device model for the operation of polymer/fullerene bulk heterojunction solar cells. <b>2005</b> , 72,	752
1929	Self-organization of nanocrystals in polymer brushes. Application in heterojunction photovoltaic diodes. <b>2005</b> , 5, 1653-7	139
1928	Exciton trapping at heterojunctions in polymer blends. <b>2005</b> , 122, 244906	53
1927	Photovoltaic Effects in Composites of V2O5 Xerogel with Polymethine Dye. <b>2005</b> , 426, 157-169	5

1926	Microwave assisted synthesis of CdSe nanocrystals for straightforward integration into composite photovoltaic devices. <b>2005</b> , 15, 4367	21
1925	Dye-functionalized head-to-tail coupled oligo(3-hexylthiophenes)-perylene-oligothiophene dyads for photovoltaic applications. <b>2005</b> , 3, 985-95	104
1924	Structure-reactivity relationships in bithiophenic precursors based on the 3-phenoxythiophene building block. <b>2005</b> , 15, 3473	7
1923	Efficient Polymer Solar Cells Based on M3EHBPV. <b>2005</b> , 17, 6532-6537	200
1922	High efficiency organic solar cells by screen printing method.	5
1921	Photovoltaic effect in poly-dioctyl-phenylene-ethynylene-C60 cells upon donor and acceptor excitation. <b>2005</b> , 87, 113506	11
1920	New carbon-rich materials for electronics, lithium battery, and hydrogen storage applications. <b>2005</b> , 2197-204	51
1919	Photophysical study of photoinduced electron transfer in a bis-thiophene substituted peryleneimide. <b>2005</b> , 4, 61-8	31
1918	Combining one-, two- and three-dimensional polyphenylene nanostructures. <b>2005</b> , 15, 41-52	46
1917	Grafting of oligoaniline on CdSe nanocrystals: spectroscopic, electrochemical and spectroelectrochemical properties of the resulting organic/inorganic hybrid. <b>2005</b> , 15, 554	22
1916	Optical and electrical characteristics of LEDs based on a single organic layer.	1
1915	Charge transfer enhanced annihilation leading to deterministic single photon emission in rigid perylene end-capped polyphenylenes. <b>2005</b> , 4973-5	15
1914	Dramatic increase in charge carrier lifetime in a liquid crystalline perylene bisimide derivative upon bay substitution with chlorine. <b>2005</b> , 15, 1270-1276	58
1913	Photoinduced electron transfer in multilayer self-assembled structures of porphyrins and porphyrin-fullerene dyads on ITO. <b>2005</b> , 15, 4546	31
1912	Synthesis and properties of end-capped sexithiophenes incorporating the ethylene dithiothiophene unit. <b>2005</b> , 15, 1446	24
1911	Extended Photocurrent Spectrum of a Low Band Gap Polymer in a Bulk Heterojunction Solar Cell. <b>2005</b> , 17, 4031-4033	184
1910	Photoconductivity in Donor-Acceptor Polyferrocenylsilane-Fullerene Composite Films. <b>2005</b> , 17, 5770-5773	22
1909	Conjugated Fluorene and Silole Copolymers: Synthesis, Characterization, Electronic Transition, Light Emission, Photovoltaic Cell, and Field Effect Hole Mobility. <b>2005</b> , 38, 2253-2260	158

1908	Study of the Thermal Elimination and Degradation Processes of <i>n</i> -Alkylsulfanyl PPV and DC1C10PPV Precursor Polymers with in Situ Spectroscopic Techniques. <b>2005</b> , 38, 1141-1147	28
1907	Spectral Broadening in MEH-PPV:PCBM-Based Photovoltaic Devices via Blending with a Narrow Band Gap Cyanovinylene Dioxothiophene Polymer. <b>2005</b> , 38, 5359-5362	203
1906	Influence of Structure and C60 Composition on Properties of Blends and Bilayers of Organic Donor-Acceptor Polymer/C60 Photovoltaic Devices. <b>2005</b> , 44, 1296-1300	27
1905	Correlation between Chain Packing and Photoluminescence for PPV/PPE in Macroscopically Oriented State: Side Chain Effects $\square$ <b>2005</b> , 38, 7546-7554	18
1904	Photovoltaic cells based on sequentially adsorbed multilayers of conjugated poly( <i>p</i> -phenylene ethynylene)s and a water-soluble fullerene derivative. <b>2005</b> , 21, 10119-26	174
1903	Simplified charge separation energetics in a two-dimensional model for polymer-based photovoltaic cells. <b>2005</b> , 109, 200-8	13
1902	Electrochemiluminescence from Organic Emitters. <b>2005</b> , 17, 1933-1945	88
1901	Photoinduced electron transfer in self-assembled monolayers of porphyrin-fullerene dyads on ITO. <b>2005</b> , 21, 6385-91	55
1900	Plastic Solar Cells Based on Novel PPE-PPV-Copolymers. <b>2005</b> , 426, 255-263	18
1899	Fluorescent Supramolecular Polymers: Metal Directed Self-Assembly of Perylene Bisimide Building Blocks. <b>2005</b> , 38, 1315-1325	244
1898	Rod-coil block copolymers incorporating terfluorene segments for stable blue light emission. <b>2005</b> , 109, 8755-60	75
1897	Carrier Transport Properties of Monodisperse Glassy-Nematic Oligofluorenes in Organic Field-Effect Transistors. <b>2005</b> , 17, 264-268	106
1896	Excitation migration along oligophenylenevinylene-based chiral stacks: delocalization effects on transport dynamics. <b>2005</b> , 109, 10594-604	77
1895	Substitution and Preparation Effects on the Molecular-Scale Morphology of PPV Films. <b>2005</b> , 38, 7784-7792	29
1894	Organic Field Effect Transistors Based on Biphenyl, Fluorene End-Capped Fused Bithiophene Oligomers. <b>2005</b> , 17, 3861-3870	47
1893	Theoretical studies of the modulation of polymer electronic and optical properties through the introduction of the electron-donating 3,4-ethylenedioxythiophene or electron-accepting pyridine and 1,3,4-oxadiazole moieties. <b>2005</b> , 109, 7764-74	32
1892	Influence of the solvent on the aggregation of a poly(3-hexylthiophene)quinquethiophene-S,S-dioxide blend at surfaces: an SFM study. <b>2005</b> , 15, 1704	14
1891	Polymeric electrochromics. <b>2005</b> , 5251-9	219



1890	Investigation of annealing effects and film thickness dependence of polymer solar cells based on poly(3-hexylthiophene). <b>2005</b> , 98, 043704	661
1889	Photoinduced charge generation and recombination dynamics in model donor/acceptor pairs for organic solar cell applications: a full quantum-chemical treatment. <b>2005</b> , 127, 6077-86	277
1888	Design of pi-conjugated organic materials for one-dimensional energy transport in nanochannels. <b>2005</b> , 109, 4872-80	39
1887	LESR study on PPV/PPE/PCBM composites for organic photovoltaics. <b>2005</b> , 148, 199-204	21
1886	Alkyl chain length dependence of the field-effect carrier mobility in regioregular poly(3-alkylthiophene)s. <b>2005</b> , 148, 169-173	152
1885	Time-dependent Langevin-type bimolecular charge carrier recombination in regiorandom poly(3-hexylthiophene). <b>2005</b> , 155, 242-245	32
1884	Synthesis and photovoltaic properties of the copolymers of 2-methoxy-5-(2'-ethylhexyloxy)-1,4-phenylene vinylene and 2,5-thienylene-vinylene. <b>2005</b> , 150, 297-304	56
1883	Quadrimeric recombination kinetics of photogenerated positive polarons and C60 <sup>•-</sup> radical anions in regioregular poly(3-alkylthiophene)/C60 composites measured by light-induced ESR. <b>2005</b> , 154, 85-88	5
1882	Photoinduced alteration of the inner electric field in a Zn-phthalocyanine/C60 heterojunction solar cell. <b>2005</b> , 153, 73-76	6
1881	Photoconducting polymer nanocomposites with efficient photogeneration and bipolar transport for optoelectronic applications. <b>2005</b> , 152, 85-88	14
1880	Probing the local optical properties of layers prepared from polymer nanoparticles. <b>2005</b> , 152, 101-104	17
1879	Nano-Crystalline Fullerene Phases in Polymer/Fullerene Bulk-Heterojunction Solar Cells: A Transmission Electron Microscopy Study. <b>2005</b> , 152, 117-120	34
1878	Organic photovoltaic devices: Concentration gradient of donor and acceptor materials in the molecular scale. <b>2005</b> , 155, 555-559	14
1877	Synthesis and Photovoltaic Characteristics of Novel Copolymers Containing Poly(phenylenevinylene) and Triphenylamine Moieties Connected at 1,7 Bay Positions of Perylene Bisimide. <b>2005</b> , 38, 716-721	57
1876	Linear pi-conjugated systems derivatized with C60-fullerene as molecular heterojunctions for organic photovoltaics. <b>2005</b> , 34, 483-95	236
1875	Polyaniline nanofiber/gold nanoparticle nonvolatile memory. <b>2005</b> , 5, 1077-80	760
1874	Kelvin probe force microscopy study on conjugated polymer/fullerene bulk heterojunction organic solar cells. <b>2005</b> , 5, 269-74	263
1873	Simultaneous enhancement of charge transport and exciton diffusion in poly(p-phenylene vinylene) derivatives. <b>2005</b> , 72,	171

1872	Impact of the computational method on the geometric and electronic properties of oligo(phenylene vinylene) radical cations. <b>2005</b> , 109, 20237-43	33
1871	Energy transfer dynamics of nanocrystal-polymer composites. <b>2005</b> , 109, 9001-5	57
1870	Synthesis and electropolymerization of a perylenebisimide-functionalized 3,4-ethylenedioxythiophene (EDOT) derivative. <b>2005</b> , 7, 2345-8	71
1869	Electrochromic conjugated N-salicylidene-aniline (anil) functionalized pyrrole and 2,5-dithienylpyrrole-based polymers. <b>2005</b> , 29, 1128	39
1868	Photoemission of Alq3 and C60 films on Al and LiF/Al substrates. <b>2005</b> , 98, 014901	40
1867	Thiophene and Selenophene Copolymers Incorporating Fluorinated Phenylene Units in the Main Chain: Synthesis, Characterization, and Application in Organic Field-Effect Transistors. <b>2005</b> , 17, 6567-6578	145
1866	Polyethene with pendant fullerene moieties. <b>2005</b> , 1616-8	12
1865	Light intensity dependence of open-circuit voltage of polymer:fullerene solar cells. <b>2005</b> , 86, 123509	914
1864	Tailoring porphyrins and chlorins for self-assembly in biomimetic artificial antenna systems. <b>2005</b> , 38, 612-23	424
1863	Thin-Film Morphologies and Solution-Processable Field-Effect Transistor Behavior of a Fluorene[thieno[3,2-b]thiophene-Based Conjugated Copolymer. <b>2005</b> , 38, 4531-4535	107
1862	Flexible, conjugated polymer-fullerene-based bulk-heterojunction solar cells: Basics, encapsulation, and integration. <b>2005</b> , 20, 3224-3233	147
1861	Device annealing effect in organic solar cells with blends of regioregular poly(3-hexylthiophene) and soluble fullerene. <b>2005</b> , 86, 063502	543
1860	Synthesis, Characterization, and Field-Effect Transistor Performance of Carboxylate-Functionalized Polythiophenes with Increased Air Stability. <b>2005</b> , 17, 4892-4899	174
1859	Single molecule nanoparticles of the conjugated polymer MEH-PPV, preparation and characterization by near-field scanning optical microscopy. <b>2005</b> , 109, 8543-6	217
1858	Influence of the Molecular Weight of Poly(3-hexylthiophene) on the Performance of Bulk Heterojunction Solar Cells. <b>2005</b> , 17, 2175-2180	359
1857	The synthesis and properties of solution processable phenyl cored thiophene dendrimers. <b>2005</b> , 15, 4518	79
1856	Organometallic Networks Based on 2,2'-Bipyridine-Containing Poly(p-phenylene ethynylene)s. <b>2005</b> , 38, 3800-3807	65
1855	Structure and dynamics in solvent-polarity-induced aggregates from a c60 fullerene-based dyad. <b>2005</b> , 21, 12139-45	15

1854	Biomimetic assemblies of carbon nanostructures for photochemical energy conversion. <b>2005</b> , 109, 11432-41	112
1853	Exciton migration in a polythiophene: probing the spatial and energy domain by line-dipole Forster-type energy transfer. <b>2005</b> , 122, 094903	99
1852	Accurate measurement of the exciton diffusion length in a conjugated polymer using a heterostructure with a side-chain cross-linked fullerene layer. <b>2005</b> , 109, 5266-74	366
1851	Large magnetoresistance in nonmagnetic $\pi$ -conjugated semiconductor thin film devices. <b>2005</b> , 72,	322
1850	Aggregation of Amphiphiles as a Tool to Create Novel Functional Nano-Objects. <b>2005</b> , 119-185	2
1849	3,4-Ethylenedioxythiophene (EDOT) as a versatile building block for advanced functional $\pi$ -conjugated systems. <b>2005</b> , 15, 1589-1610	367
1848	Design and Synthesis of TiO <sub>2</sub> Nanorod Assemblies and Their Application for Photovoltaic Devices. <b>2006</b> , 18, 5080-5087	109
1847	Hyperfine interaction and magnetoresistance in organic semiconductors. <b>2006</b> , 74,	203
1846	Anionic Water-Soluble Poly(phenylenevinylene) Alternating Copolymer: High-Efficiency Photoluminescence and Dual Electroluminescence. <b>2006</b> , 39, 3125-3131	53
1845	Transition metal oxides as the buffer layer for polymer photovoltaic cells. <b>2006</b> , 88, 073508	877
1844	Enhancement of two-photon absorption cross-section and singlet-oxygen generation in porphyrins upon beta-functionalization with donor-acceptor substituents. <b>2006</b> , 8, 2719-22	67
1843	Triphenylamine-Diethoxythiophene Conjugated Systems as Organic Semiconductors for Opto-Electronics. <b>2006</b> , 18, 2584-2590	169
1842	Silica-Titanium-Based Organic-Inorganic Hybrid Materials for Photovoltaic Applications. <b>2006</b> , 18, 4157-4162	33
1841	Efficient light harvesting in multiple-device stacked structure for polymer solar cells. <b>2006</b> , 88, 064104	182
1840	Photocurrent response wavelength up to 1.1 $\mu$ m from photovoltaic cells based on narrow-band-gap conjugated polymer and fullerene derivative. <b>2006</b> , 89, 081106	67
1839	Oxygen Release and Exchange in Niobium Oxide MEHPPV Hybrid Solar Cells. <b>2006</b> , 18, 5684-5690	105
1838	Light intensity dependence of open-circuit voltage and short-circuit current of polymer/fullerene solar cells. <b>2006</b> ,	0
1837	Electronic and chemical properties of tin-doped indium oxide (ITO) surfaces and ITO/ZnPc interfaces studied in-situ by photoelectron spectroscopy. <b>2006</b> , 110, 4793-801	100

1836	Hybrid nanocrystal/polymer solar cells based on tetrapod-shaped CdSe(x)Te(1-x) nanocrystals. <b>2006</b> , 17, 4041-7	152
1835	Synthesis and photophysical properties of ruthenocene-[60]fullerene dyads. <b>2006</b> , 30, 93-101	11
1834	Fast and Slow Time Regimes of Fluorescence Quenching in Conjugated Polyfluorene/Fluorenone Random Copolymers: The Role of Exciton Hopping and Dexter Transfer along the Polymer Backbone. <b>2006</b> , 39, 1598-1606	62
1833	Tuning acceptor energy level for efficient charge collection in copper-phthalocyanine-based organic solar cells. <b>2006</b> , 88, 153504	125
1832	Hybrid solar cells based on CuInS <sub>2</sub> and MEH-PPV. <b>2006</b> ,	5
1831	Physics of organic bulk heterojunction devices for photovoltaic applications. <b>2006</b> , 99, 104503	198
1830	Bulk heterojunction organic photovoltaic devices based on phenyl-cored thiophene dendrimers. <b>2006</b> , 89, 103524	122
1829	Color-variable organic light-emitting device by external light irradiation. <b>2006</b> , 89, 223520	2
1828	Local states in organic materials: charge transport and localization. <b>2006</b> , 13, 1001-1015	12
1827	Long-range self-assembly of bis(imidazole)-annulated terphenyls. <b>2006</b> , 16, 4058-4064	25
1826	Unexpected electromechanical actuation in conjugated polymer based diodes. <b>2006</b> , 16, 1789-1793	5
1825	Electron transport in naphthylamine-based organic compounds. <b>2006</b> , 89, 262102	116
1824	Saturated and Efficient Red Light-Emitting Fluorene-Based Alternating Polymers Containing Phenothiazine Derivatives. <b>2006</b> , 39, 177-183	112
1823	Synthesis and photoresponse of a fullerene/Bis(styryl)benzene dyad. <b>2006</b> , 30, 335	9
1822	Self-assembly of C(60) pi-extended tetrathiafulvalene (exTTF) dyads on gold surfaces. <b>2006</b> , 22, 10619-24	13
1821	Spectroelectrochemistry of poly(ethylenedithiathiophene)--the sulfur analogue of poly(ethylenedioxythiophene). <b>2006</b> , 110, 2662-7	24
1820	Surface-initiated growth of conjugated polymers for functionalization of electronically active nanoporous networks: synthesis, structure and optical properties. <b>2006</b> , 16, 3721	36
1819	Incorporation of fused tetrathiafulvalenes (TTFs) into polythiophene architectures: varying the electroactive dominance of the TTF species in hybrid systems. <b>2006</b> , 110, 3140-52	54

1818	Organophosphorus pi-conjugated materials. <b>2006</b> , 106, 4681-727	839
1817	Fullerene polymers: synthesis and properties. <b>2006</b> , 106, 5136-90	343
1816	Charge hopping in organic semiconductors: influence of molecular parameters on macroscopic mobilities in model one-dimensional stacks. <b>2006</b> , 110, 6356-64	139
1815	Functional organogels from highly efficient organogelator based on perylene bisimide semiconductor. <b>2006</b> , 3871-3	144
1814	Regioregular copolymers of 3-alkoxythiophene and their photovoltaic application. <b>2006</b> , 128, 8980-6	264
1813	Effects of functional groups at perylene diimide derivatives on organic photovoltaic device application. <b>2006</b> , 16, 384-390	252
1812	Photophysical properties of a 1,2,3,4,5,6-hexasubstituted fullerene derivative. <b>2006</b> , 110, 13662-6	11
1811	Core-Shell Systems Based on Intrinsically Conductive Polymers and their Coating Applications. <b>2006</b> , 187-220	2
1810	Quantitative Insight into Morphology Evolution of Thin PPV/PCBM Composite Films upon Thermal Treatment. <b>2006</b> , 39, 218-223	42
1809	Layered Molecular Ordering of Self-Organized Poly(3-hexylthiophene) Thin Films on Hydrophobized Surfaces. <b>2006</b> , 39, 5843-5847	70
1808	Polythiophene Derivatives -Based Materials for Organic Field Effect Transistors and Photovoltaic Cells. <b>2006</b> ,	
1807	Organic solar cells with carbon nanotubes replacing In <sub>2</sub> O <sub>3</sub> :Sn as the transparent electrode. <b>2006</b> , 88, 233503	334
1806	Synthesis and Properties of Multi-Triarylamine-Substituted Carbazole-Based Dendrimers with an Oligothiophene Core for Potential Applications in Organic Solar Cells and Light-Emitting Diodes. <b>2006</b> , 18, 6194-6203	122
1805	Scanning Near-Field and Confocal Raman Microscopic Investigation of P3HT/PCBM Systems for Solar Cell Applications. <b>2006</b> , 39, 4493-4496	129
1804	Origin of the open-circuit voltage in organic solar cells. <b>2006</b> ,	4
1803	New challenges in fullerene chemistry. <b>2006</b> , 2093-104	289
1802	A dendritic fullerene-porphyrin dyad. <b>2006</b> , 5, 1137-41	15
1801	Three-dimensional chemical and physical analysis of the degradation mechanisms in organic photovoltaics. <b>2006</b> ,	5

1800	Efficient single-layer electroluminescent device based on a bipolar emitting boron-containing material. <b>2006</b> , 281-3	90
1799	Photoinduced charge and energy transfer involving fullerene derivatives. <b>2006</b> , 5, 1122-31	130
1798	Soluble narrow band gap and blue propylenedioxythiophene-cyanovinylene polymers as multifunctional materials for photovoltaic and electrochromic applications. <b>2006</b> , 128, 12714-25	352
1797	Synthesis and photophysical properties of a [60]fullerene compound with dimethylaniline and ferrocene connected through a pyrazolino group: a study by laser flash photolysis. <b>2006</b> , 8, 4104-11	13
1796	Three-dimensional tetra(oligothienyl)silanes as donor material for organic solar cells. <b>2006</b> , 16, 3040	106
1795	Cyclic oligothiophenes: novel organic materials and models for polythiophene. A theoretical study. <b>2006</b> , 71, 2972-81	62
1794	Long-lived photoinduced charges in donor-acceptor anthraquinone-substituted thiophene copolymers. <b>2006</b> , 110, 5351-8	24
1793	Temperature and field dependence of hole mobility in poly(9,9-dioctylfluorene). <b>2006</b> , 73,	138
1792	Optical and photophysical properties of indolocarbazole derivatives. <b>2006</b> , 110, 13696-704	45
1791	X-shaped oligothiophenes as a new class of electron donors for bulk-heterojunction solar cells. <b>2006</b> , 110, 7702-7	115
1790	Synthesis and Properties of Novel Low-Band-Gap Thienopyrazine-Based Poly(heteroarylenevinylene)s. <b>2006</b> , 39, 7844-7853	51
1789	Use of a ruthenium-containing conjugated polymer as a photosensitizer in photovoltaic devices fabricated by a layer-by-layer deposition process. <b>2006</b> , 22, 3368-75	59
1788	High Contrast Ratio and Rapid Switching Organic Polymeric Electrochromic Thin Films Based on Triarylamine Derivatives from Layer-by-Layer Assembly. <b>2006</b> , 18, 5823-5825	60
1787	Influence of polymer-blend morphology on charge transport and photocurrent generation in donor-acceptor polymer blends. <b>2006</b> , 6, 1674-81	91
1786	Oligothiophene catenanes and knots: a theoretical study. <b>2006</b> , 110, 10098-105	25
1785	Isothermal Elimination of n-Alkylsulfinyl OC1C10-PPV Precursor Polymers Studied with FT-IR, UVVis, and MTDSC: Kinetics of the Elimination Reaction. <b>2006</b> , 39, 3194-3201	2
1784	Novel Polyarylene-Triarylmethane Dye Copolymers. <b>2006</b> , 39, 5646-5651	12
1783	Photophysical properties of hydroxylated amphiphilic poly(p-phenylene)s. <b>2006</b> , 110, 25958-63	11

1782	Polymeric conducting anode for small organic transporting molecules in dark injection experiments. <b>2006</b> , 100, 063708	69
1781	Synthesis and characterization of photoresponsive diphenylaminofluorene chromophore adducts of [60]fullerene. <b>2006</b> , 16, 1366	31
1780	Layer-by-Layer Growth of Incommensurate, Polycrystalline, Lying-Down Pentacene Thin Films on Au(111). <b>2006</b> , 18, 1318-1323	42
1779	Layer-by-Layer Assembly of Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate). <b>2006</b> , 39, 6071-6074	62
1778	Poly(2,7-carbazole) and perylene tetracarboxydiimide: a promising donor/acceptor pair for polymer solar cells. <b>2006</b> , 16, 96-100	261
1777	Design and Synthesis of a Low Band Gap Conjugated Macroinitiator: Toward Rod-Coil Donor-Acceptor Block Copolymers. <b>2006</b> , 39, 4289-4297	80
1776	Synthesis and Characterization of C60-Anchored Multiarmed Polymers with Well-Defined Structures. <b>2006</b> , 39, 5657-5668	10
1775	Comparative Study of M3EHPV-Based Bilayer Photovoltaic Devices. <b>2006</b> , 39, 4018-4022	85
1774	Effect of branched conjugation structure on the optical, electrochemical, hole mobility, and photovoltaic properties of polythiophenes. <b>2006</b> , 110, 26062-7	66
1773	Microscopic inhomogeneity and ultrafast orientational motion in an organic photovoltaic bulk heterojunction thin film studied with 2D IR vibrational spectroscopy. <b>2006</b> , 110, 24281-6	30
1772	Synthesis and self-assembly of an amphiphilic poly(phenylene ethynylene) ionomer. <b>2006</b> , 110, 22088-96	14
1771	Blue-Emitting Carbon- and Nitrogen-Bridged Poly(ladder-type tetraphenylene)s. <b>2006</b> , 18, 2879-2885	70
1770	Synthesis and Electronic Properties of Anthraquinone-, Tetracyanoanthraquinodimethane-, and Perylenetetracarboxylic Diimide-Functionalized Poly(3,4-ethylenedioxythiophenes). <b>2006</b> , 18, 2834-2847	75
1769	Synthesis and Properties of Metallo-Supramolecular Poly(p-phenylene ethynylene)s. <b>2006</b> , 39, 651-657	90
1768	Photovoltaic Performance and Morphology of Polyfluorene Blends: The Influence of Phase Separation Evolution. <b>2006</b> , 39, 5393-5399	40
1767	Solution-Processable Field-Effect Transistor Using a Fluorene- and Selenophene-Based Copolymer as an Active Layer. <b>2006</b> , 39, 4081-4085	84
1766	Theoretical study of long oligothiophene dications: bipolaron vs polaron pair vs triplet state. <b>2006</b> , 110, 15839-46	66
1765	Bimolecular recombination in polymer/fullerene bulk heterojunction solar cells. <b>2006</b> , 88, 052104	395

1764	Towards polymerizable fullerene derivatives to stabilize the initially formed phases in bulk-heterojunction solar cells. <b>2006</b> , 30, 313	18
1763	Pathways for photoinduced charge separation and recombination at donor-acceptor heterojunctions: the case of oligophenylenevinylene-perylene bisimide complexes. <b>2006</b> , 110, 3447-53	34
1762	Observation of the subgap optical absorption in polymer-fullerene blend solar cells. <b>2006</b> , 88, 052113	150
1761	Triphenylamine-thienylenevinylene hybrid systems with internal charge transfer as donor materials for heterojunction solar cells. <b>2006</b> , 128, 3459-66	714
1760	From oligomers to polymer: convergence in the HOMO-LUMO gaps of conjugated oligomers. <b>2006</b> , 8, 5243-6	293
1759	Conformations and electronic structures of axially coordinated fullerene-porphyrin-fullerene triad (C <sub>60</sub> CHCOO) <sub>2</sub> -Sn(IV) porphyrin. <b>2006</b> , 110, 5337-42	16
1758	Morphology of polymer/fullerene bulk heterojunction solar cells. <b>2006</b> , 16, 45-61	1277
1757	Optical absorption by defect states in organic solar cells. <b>2006</b> , 352, 1656-1659	17
1756	Optical excitations in C <sub>60</sub> /PPV composites. <b>2006</b> , 352, 2488-2491	2
1755	A star-shaped triphenylamine pi-conjugated system with internal charge-transfer as donor material for hetero-junction solar cells. <b>2006</b> , 1416-8	56
1754	Both anodically and cathodically coloring electrochromic polymer based on dithieno[3,4-b,3',4'-e]-[1,4]-dithiine. <b>2006</b> , 156, 124-128	13
1753	Electrochemical synthesis, characterization and photophysics of a poly(fluorenylene vinylene) derivative. <b>2006</b> , 156, 104-109	16
1752	Luminescence and photovoltaic cells of benzoselenadiazole-containing polyfluorenes. <b>2006</b> , 156, 470-475	37
1751	Molecular scale organized poly(MDMO-p-phenylene vinylene) heteropolyacid composites. <b>2006</b> , 156, 843-847	1
1750	Enhanced photovoltaic cells efficiency via incorporation of high electron-deficient oxadiazole moieties on side chains of poly(phenylene vinylene)s and poly(fluorene)s. <b>2006</b> , 156, 949-953	21
1749	Synthesis and characterization of new light-emitting copolymers containing 3,4-dialkoxythiophenes. <b>2006</b> , 156, 1168-1173	37
1748	. <b>2006</b> ,	126
1747	Effect of side-chains on low band gap polymer photovoltaic devices. <b>2006</b> ,	



1746	Side chain effects on photoinduced absorption and photovoltaic performance of low bandgap thienylene vinylene and phenylene vinylene copolymers. <b>2006</b> , 36, 219-223	2
1745	Influence of the Nanoscale Morphology on the Photovoltaic Properties of Fullerene/MEH-PPV Composites. <b>2006</b> , 233, 203-209	8
1744	Photovoltaic properties dependance on the active layer morphology of small molecule organic solar cells. <b>2006</b> , 6192, 377	
1743	From evaporation to solution processed organic tandem solar cells. <b>2006</b> , 6197, 96	3
1742	Optical and EPR spectroscopy in pure and blended films of a novel low band gap polymer. <b>2006</b> , 36, 285-287	3
1741	Donor-acceptor heterojunction solar cells based on perylene dimide and perylene bisbenzimidazole. <b>2006</b> , 36, 225-229	22
1740	(E)-Diethyl 2-amino-5-(2-thienylmethyleneamino)thiophene-3,4-dicarboxylate. <b>2006</b> , 62, o2382-o2384	10
1739	(E)-2-Phenyl-3-(2-phenylindolizin-3-yl)acrylonitrile. <b>2006</b> , 62, o2363-o2364	1
1738	Lifetimes of organic photovoltaics: photooxidative degradation of a model compound. <b>2006</b> , 38, 1302-1310	23
1737	Thinner-film plastic photovoltaic cells based on different C60 derivatives. <b>2006</b> , 17, 500-505	11
1736	Effect of side-chain end groups on the optical, electrochemical, and photovoltaic properties of side-chain conjugated polythiophenes. <b>2006</b> , 44, 4916-4922	68
1735	Relationship between the liquid crystallinity and field-effect-transistor behavior of fluorene-thiophene-based conjugated copolymers. <b>2006</b> , 44, 4709-4721	46
1734	Synthesis and properties of fluorene-based polyheteroarylenes for photovoltaic devices. <b>2006</b> , 44, 6952-6961	52
1733	Optimization of opto-electronic property and device efficiency of polyfluorenes by tuning structure and morphology. <b>2006</b> , 55, 473-490	100
1732	Polymer electronic materials: a review of charge transport. <b>2006</b> , 55, 1371-1384	125
1731	Studies on the structure and conduction mechanism of (Acrd)[Au(mnt) <sub>2</sub> ] <sub>2.7</sub> and (Phenz)[Au(mnt) <sub>2</sub> ] <sub>3</sub> molecular single crystals. <b>2006</b> , 203, 878-885	2
1730	A strong regioregularity effect in self-organizing conjugated polymer films and high-efficiency polythiophene:fullerene solar cells. <b>2006</b> , 5, 197-203	2097
1729	Conjugated polymer photovoltaic devices and materials. <b>2006</b> , 9, 568-577	71

1728	The role of charge-transfer integral in determining and engineering the carrier mobilities of 9,10-di(2-naphthyl)anthracene compounds. <b>2006</b> , 422, 354-357	38
1727	Excited state properties of novel p- and n-type organic semiconductors with an anthracene unit. <b>2006</b> , 320, 155-163	31
1726	High open-circuit voltage in UV photovoltaic cell based on polymer/inorganic bilayer structure. <b>2006</b> , 330, 501-505	15
1725	Solar photovoltaics R&D at the tipping point: A 2005 technology overview. <b>2006</b> , 150, 105-135	216
1724	Solvent and concentration effects on fluorescence emission in MEH-PPV solution. <b>2006</b> , 42, 228-233	44
1723	Photolithographic patterning of organic electronic materials. <b>2006</b> , 7, 22-28	179
1722	Photoresponse of organic field-effect transistors based on conjugated polymer/fullerene blends. <b>2006</b> , 7, 188-194	125
1721	Ellipsometric study of an organic template effect: H2Pc/PTCDA. <b>2006</b> , 7, 521-527	22
1720	Sequestration of electroactive materials in a high T <sub>g</sub> , insulating polymer matrix for optoelectronic applications. Part 2. Photovoltaic devices. <b>2006</b> , 47, 4124-4131	12
1719	Non-isothermal elimination process in the solid state of n-alkyl-sulphinyl precursor polymers towards conjugated poly[2-(3,7-dimethyloctyloxy)-5-methoxy-1,4-phenylene vinylene] studied with MTDSC and TGA. <b>2006</b> , 47, 7935-7942	2
1718	Synthesis of size-controlled CdSe quantum dots and characterization of CdSe/conjugated polymer blends for hybrid solar cells. <b>2006</b> , 179, 135-141	68
1717	Electrosynthesis of soluble polythiophene derivatives with high thermal stability. <b>2006</b> , 587, 308-313	11
1716	Nanoscale thin-film morphologies and field-effect transistor behavior of oligothiophene derivatives. <b>2006</b> , 7, 121-131	32
1715	Investigation of charge transport, photo generated electron transfer and photovoltaic response of iron phthalocyanine (FePc):TiO <sub>2</sub> thin films. <b>2006</b> , 90, 32-45	27
1714	High-conductivity large-area semi-transparent electrodes for polymer photovoltaics by silk screen printing and vapour-phase deposition. <b>2006</b> , 90, 123-132	122
1713	Dye sensitized photovoltaic cells: Attaching conjugated polymers to zwitterionic ruthenium dyes. <b>2006</b> , 90, 142-165	52
1712	Lifetimes of organic photovoltaics: Using TOF-SIMS and 18O <sub>2</sub> isotopic labelling to characterise chemical degradation mechanisms. <b>2006</b> , 90, 213-227	142
1711	Strategies for incorporation of polymer photovoltaics into garments and textiles. <b>2006</b> , 90, 1058-1067	98

1710	Solar cells using iodine-doped polythiophene-porphyrin polymer films. <b>2006</b> , 90, 1322-1330	55
1709	Bi-layer photovoltaic devices with PPQ as the electron acceptor layer. <b>2006</b> , 90, 1705-1714	8
1708	On the use of GaIn eutectic and halogen light source for testing P3HT/PCBM organic solar cells. <b>2006</b> , 90, 1828-1839	43
1707	Organic solar cells based on the spin-coated blend films of TPA-th-TPA and PCBM. <b>2006</b> , 90, 1815-1827	66
1706	Photovoltaic performance and stability of CdTe/polymeric hybrid solar cells using a C60 buffer layer. <b>2006</b> , 90, 1849-1858	26
1705	Hybrid solar cells based on MEH-PPV and thin film semiconductor oxides (TiO <sub>2</sub> , Nb <sub>2</sub> O <sub>5</sub> , ZnO, CeO <sub>2</sub> and CeO <sub>2</sub> /TiO <sub>2</sub> ): Performance improvement during long-time irradiation. <b>2006</b> , 90, 2076-2086	174
1704	P3HT/PCBM bulk heterojunction solar cells: Relation between morphology and electro-optical characteristics. <b>2006</b> , 90, 2150-2158	328
1703	Lifetimes of organic photovoltaics: Design and synthesis of single oligomer molecules in order to study chemical degradation mechanisms. <b>2006</b> , 90, 2777-2792	45
1702	Precursor route poly(thienylene vinylene) for organic solar cells: Photophysics and photovoltaic performance. <b>2006</b> , 90, 2815-2828	42
1701	Lifetimes of organic photovoltaics: Combining chemical and physical characterisation techniques to study degradation mechanisms. <b>2006</b> , 90, 2793-2814	161
1700	Photoelectrochemical solar energy conversion based on blend of poly(3-hexylthiophene) and fullerene. <b>2006</b> , 90, 3508-3519	10
1699	Polythiophene/fullerene bulk heterojunction solar cell fabricated via electrochemical co-deposition. <b>2006</b> , 90, 3547-3556	31
1698	Photovoltaic activity of a PolyProDOT derivative in a bulk heterojunction solar cell. <b>2006</b> , 90, 3531-3546	16
1697	Encapsulation of polymer photovoltaic prototypes. <b>2006</b> , 90, 3633-3643	82
1696	Hierarchical self-assembly of all-organic photovoltaic devices. <b>2006</b> , 62, 2050-2059	71
1695	Dendritic liquid-crystalline fullerene-ferrocene dyads. <b>2006</b> , 62, 2115-2122	48
1694	Nanoscale electrical characterization of semiconducting polymer blends by conductive atomic force microscopy (C-AFM). <b>2006</b> , 106, 191-9	94
1693	Carrier transport mechanisms and photovoltaic characteristics of p-H2Pc/n-Si heterojunctions. <b>2006</b> , 81, 8-12	22

1692	Synthesis of an optically active electron-acceptor tetracyanoanthraquinodimethane (TCAQ) main-chain polyester. <b>2006</b> , 47, 6445-6448	4
1691	The variety of reactions of radical cations derived from 2-diphenylaminothiophene oligomers. <b>2006</b> , 47, 7587-7590	11
1690	Excited state properties of neutral, anionic and cationic 1,1-disubstituted 2,3,4,5-tetraphenylsiloles: A quantum chemical characterization. <b>2006</b> , 770, 51-56	4
1689	Molecular doping of poly(p-phenylenevinylene) under vacuum for photovoltaic application. <b>2006</b> , 499, 110-113	6
1688	Electrodeposited (CuInSe)/polypyrrole PV structures. <b>2006</b> , 511-512, 425-429	29
1687	Polymer solar cells with low-bandgap polymers blended with C70-derivative give photocurrent at 1 $\mu\text{m}$ . <b>2006</b> , 511-512, 576-580	50
1686	Molecular and supramolecular engineering of $\pi$ -conjugated systems for photovoltaic conversion. <b>2006</b> , 511-512, 567-575	73
1685	Thermal characterization and annealing effects of polythiophene/fullerene photoactive layers for solar cells. <b>2006</b> , 511-512, 489-493	35
1684	New low band-gap alternating polyfluorene derivatives for photovoltaic cells. <b>2006</b> , 511-512, 157-162	33
1683	Surface versus bulk electronic/defect structures of transparent conducting oxides: I. Indium oxide and ITO. <b>2006</b> , 39, 3959-3968	117
1682	Modeling optical effects and thickness dependent current in polymer bulk-heterojunction solar cells. <b>2006</b> , 100, 114509	196
1681	Nanoscale electrical characterization of organic photovoltaic blends by conductive atomic force microscopy. <b>2006</b> , 89, 032107	80
1680	Carbon nanotube/PEDOT:PSS electrodes for organic photovoltaics. <b>2006</b> , 36, 257-259	52
1679	Poly(thieno[3,4-b]furan). A New Low Band Gap Conjugated Polymer. <b>2006</b> , 39, 2723-2725	20
1678	Photochemical energy conversion: from molecular dyads to solar cells. <b>2006</b> , 3279-89	146
1677	New donor-acceptor materials based on random polynorbornenes bearing pendant phthalocyanine and fullerene units. <b>2006</b> , 1, 148-54	58
1676	Functional Organized Molecular Assemblies Based on Polymer Nano-sheets. <b>2006</b> , 38, 877-896	48
1675	AB-INITIO STUDY ON THE EXCITON BINDING ENERGIES IN ORGANIC SEMICONDUCTORS. <b>2006</b> , 20, 261-280	28

- 1674 Star-shaped perylene $\pi$ -ligothiophene $\pi$ -triphenylamine hybrid systems for photovoltaic applications. **2006**, 16, 874-884 153
- 1673 Inverted bulk-heterojunction organic photovoltaic device using a solution-derived ZnO underlayer. **2006**, 89, 143517 711
- 1672 Self-organization of porphyrins and fullerenes for molecular photoelectrochemical devices. **2006**, 87, 63-71 34
- 1671 Electrical conductivity and photoconductivity of films of composites based on poly[2-methoxy-5-(2'-ethylhexyloxy)-1,4-phenylenevinylene] with additions of zinc octabutyl phthalocyanine and C60. **2006**, 42, 277-281 3
- 1670 Organometallic Conjugated Polymer Networks. **2006**, 16, 101-113 19
- 1669 Temperature-dependent photoluminescence from MEH-PPV and MEH-OPPV containing oxadiazole in the main chain. **2006**, 84, 203-206 19
- 1668 Photovoltaic properties of poly[(9,9-dioctylfluorenyl-2,7-vinylene)-co-{2-(3'-dimethyldodecylsilylphenyl)-1,4-phenylenevinylene}] for electro-active devices. **2006**, 14, 524-529 3
- 1667 Photophysical, electrochemical and photovoltaic properties of thiophene-containing arylene-ethynylene/arylene-vinylene polymers. **2006**, 511-512, 486-488 19
- 1666 A new encapsulation solution for flexible organic solar cells. **2006**, 511-512, 349-353 217
- 1665 Photoelectrochemical properties of poly(terthiophene) films modified with a fullerene derivative. **2006**, 515, 2644-2649 7
- 1664 Diels-Alder cycloaddition as an efficient tool for linking donors onto fullerene C60. **2006**, 9, 881-891 31
- 1663 Modelling and simulation of InGaP solar cells under solar concentration: Series resistance measurement and prediction. **2006**, 8, 556-559 14
- 1662 Photophysics and photochemistry of colloidal poly (p-phenylenevinylene) (PPV) polymer. **2006**, 100, 345-350 12
- 1661 Fine tuning of the electronic properties of linear pi-conjugated oligomers by covalent bridging. **2006**, 12, 1244-55 32
- 1660 Electron transfer in nonpolar solvents in fullerodendrimers with peripheral ferrocene units. **2006**, 12, 5149-57 31
- 1659 Indium tin oxide nanoparticles as anode for light-emitting diodes. **2006**, 99, 3125-3129 12
- 1658 Charge separation at self-assembled nanostructured bulk interface in block copolymers. **2006**, 45, 3364-8 194
- 1657 Exceptionally strong electronic communication through hydrogen bonds in porphyrin-C60 pairs. **2006**, 45, 4637-41 109

1656	Nanoscale structural and electronic properties of ultrathin blends of two polyaromatic molecules: a Kelvin probe force microscopy investigation. <b>2006</b> , 7, 847-53		10
1655	Novel Random Low-Band-Gap Fluorene-Based Copolymers for Deep Red/Near Infrared Light-Emitting Diodes and Bulk Heterojunction Photovoltaic Cells. <b>2006</b> , 207, 511-520		82
1654	Electrochemical Properties of a New Star-Shaped Pyrrole Monomer and its Electrochromic Applications. <b>2006</b> , 207, 1351-1358		35
1653	Multilayer Thin Films by Layer-by-Layer Assembly of Hole- and Electron-Transport Polyelectrolytes: Optical and Electrochemical Properties. <b>2006</b> , 207, 1870-1879		9
1652	Linking Polythiophene Chains Through Conjugated Bridges: A Way to Improve Charge Transport in Polymer Solar Cells. <b>2006</b> , 27, 793-798		54
1651	An Extremely Narrow-Band-Gap Conjugated Polymer with Heterocyclic Backbone and its Use in Optoelectronic Devices. <b>2006</b> , 27, 1260-1264		44
1650	Ladungstrennung an selbstorganisierten nanostrukturierten Grenzflächen in Blockcopolymeren. <b>2006</b> , 118, 3442-3446		9
1649	Exceptionally Strong Electronic Communication through Hydrogen Bonds in Porphyrin $\pi$ 60 Pairs. <b>2006</b> , 118, 4753-4757		32
1648	Covalent Layer-by-Layer Assembly of Conjugated Polymers and CdSe Nanoparticles: Multilayer Structure and Photovoltaic Properties. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 542-548	15.6	132
1647	Electrical Switching and Bistability in Organic/Polymeric Thin Films and Memory Devices. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 1001-1014	15.6	517
1646	Nanoscale Characterization of the Morphology and Electrostatic Properties of Poly(3-octylthiophene)/Graphite-Nanoparticle Blends. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 1975-1984	15.6	24
1645	The Mobility and Decay Kinetics of Charge Carriers in Pulse-Ionized Microcrystalline PCBM Powder. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 2274-2280	15.6	60
1644	Solution-Processed Organic Tandem Solar Cells. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 1897-1903	15.6	247
1643	Quantitative Measurement of the Local Surface Potential of $\pi$ -Conjugated Nanostructures: A Kelvin Probe Force Microscopy Study. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 1407-1416	15.6	50
1642	Accurate Measurement and Characterization of Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 2016-2023	15.6	464
1641	New Architecture for High-Efficiency Polymer Photovoltaic Cells Using Solution-Based Titanium Oxide as an Optical Spacer. <b>2006</b> , 18, 572-576		1472
1640	Poly(3,4-alkylenedioxyppyrrroles): The PxDOPs as Versatile Yet Underutilized Electroactive and Conducting Polymers. <b>2006</b> , 18, 1121-1131		137
1639	Low-Bandgap Alternating Fluorene Copolymer/Methanofullerene Heterojunctions in Efficient Near-Infrared Polymer Solar Cells. <b>2006</b> , 18, 2169-2173		311

1638	High Photovoltaic Performance of a Low-Bandgap Polymer. <b>2006</b> , 18, 2884-2889	1023
1637	The Negative Effect of High-Temperature Annealing on Charge-Carrier Lifetimes in Microcrystalline PCBM. <b>2006</b> , 18, 2294-2298	42
1636	Light-Emitting Organic Solar Cells Based on a 3D Conjugated System with Internal Charge Transfer. <b>2006</b> , 18, 3033-3037	171
1635	Efficient Organic Excitonic Solar Cells with Carbon Nanotubes Replacing In <sub>2</sub> O <sub>3</sub> :Sn as the Transparent Electrode. <b>2006</b> ,	
1634	New architecture for high-efficiency polymer photovoltaic cells using solution-based titanium oxide layer. <b>2006</b> ,	3
1633	Post-fabrication annealing effects in polymer-nanotube photovoltaic cells. <b>2006</b> , 39, 1058-1062	98
1632	Low-Voltage Electrodeposition of Fullerol Thin Films from Aqueous Solutions. <b>2006</b> , 153, C483	5
1631	Magnetic Field Effects on Current, Electroluminescence and Photocurrent in Alq <sub>3</sub> Organic Light Emitting Diodes. <b>2006</b> , 52, 53-61	
1630	Tandem stacking structure for polymer solar cells by using semi-transparent electrodes. <b>2006</b> , 6334, 170	
1629	A hybrid organic/inorganic electrode for enhanced charge injection or collection in organic optoelectronic devices. <b>2006</b> , 17, 3662-3667	15
1628	Synthesis, characterization and application of donor-acceptor block copolymers in nanostructured bulk heterojunction solar cells. <b>2006</b> , 36, 245-249	20
1627	Nanostructure and Nanomorphology Engineering in Polymer Solar Cells. <b>2006</b> , 277-318	1
1626	Nanostructured Organic Bulk Heterojunction Solar Cells. <b>2006</b> , 319-333	2
1625	Magnetoresistance and Magnetic Field Effect on Electroluminescence in Polyfluorene OLEDs. <b>2006</b> , 937, 1	
1624	Synthese Et Etude Electrochimique De Disulfures Thiopheniques. <b>2006</b> , 181, 191-217	3
1623	Alkyl Tail Length Dependence of Structures in a Series of Symmetrically Tapered Bisamides Exhibiting Self-Assembled Supramolecular Columnar Phases. <b>2006</b> , 45, 215-229	10
1622	. <b>2006</b> ,	0
1621	Bipolar transport observed through extraction currents on organic photovoltaic blend materials. <b>2006</b> , 89, 142111	20

1620	Thickness dependence of the efficiency of polymer:fullerene bulk heterojunction solar cells. <b>2006</b> , 88, 243502	150
1619	Optical emission from the aggregated state in poly [2-methoxy-5-(2-ethyl-hexyloxy)-p-phenylene vinylene]. <b>2006</b> , 24, 202-205	11
1618	Surface states, surface potentials, and segregation at surfaces of tin-doped In <sub>2</sub> O <sub>3</sub> . <b>2006</b> , 73,	163
1617	Photocurrent pattern formation in polymer/methanofullerene blends imaged by near-field scanning photocurrent microscopy. <b>2006</b> , 99, 033502	14
1616	Control of morphology in efficient photovoltaic diodes from discotic liquid crystals. <b>2006</b> , 124, 174704	78
1615	BIPOLARON DYNAMICS IN NON-DEGENERATE POLYMERS. <b>2007</b> , 21, 4190-4195	
1614	Effect of Chain Structure and Dopant on the Thermal and Optical Properties of Conjugated/Non-conjugated Isomeric Polyketanils. <b>2007</b> , 19, 194-212	2
1613	Photoconductive Properties of Regioregular Poly(3-hexylthiophene). <b>2007</b> ,	
1612	Light-Induced ESR Studies of Quadrimolecular Recombination Kinetics of Photogenerated Charge Carriers in Regioregular Poly(3-alkylthiophene)/C <sub>60</sub> Composites: Alkyl Chain Dependence. <b>2007</b> , 46, 5187-5192	15
1611	Subpicosecond photoinduced Stark spectroscopy in fullerene-based devices. <b>2007</b> , 75,	13
1610	Effects of doped dye on the charge carrier injection, transport, and electroluminescent performance in polymeric light-emitting diodes. <b>2007</b> , 102, 024510	8
1609	Polymer thin film transistors with self-aligned gates fabricated using ink-jet printing. <b>2007</b> , 90, 172103	15
1608	Organic photovoltaic cells with near infrared absorption spectrum. <b>2007</b> , 91, 253503	80
1607	Doping poly(p-phenylene vinylene) with phosphomolybdate through layer-by-layer fabrication for optoelectronic applications. <b>2007</b> , 102, 094309	4
1606	Surface relief gratings on poly(3-hexylthiophene) and fullerene blends for efficient organic solar cells. <b>2007</b> , 91, 173509	76
1605	Effect of molecular packing on the exciton diffusion length in organic solar cells. <b>2007</b> , 91, 173504	94
1604	Hole transport in molecularly doped naphthyl diamine. <b>2007</b> , 102, 093705	36
1603	Organic photovoltaics. <b>2007</b> ,	1



1602	Real-time monitoring of organic vapor-phase deposition of molecular thin films using high-pressure reflection high-energy electron diffraction. <b>2007</b> , 90, 181932	19
1601	Polymeric nanocomposite infrared photovoltaics enhanced by pentacene. <b>2007</b> , 90, 252112	18
1600	Ultrafast carrier dynamics on conjugated poly(3-hexylthiophene)/[6,6]-phenylC61-butyric acid methyl ester composites. <b>2007</b> , 91, 111117	28
1599	Modeling the effect of the structure of polymer photocells on their absorption spectrum. <b>2007</b> , 102, 013105	7
1598	Confocal Raman spectroscopy of single poly(3-methylthiophene) nanotubes. <b>2007</b> , 101, 053514	19
1597	Charge carrier generation through reexcitations of an exciton in poly(p-phenylene vinylene) molecules. <b>2007</b> , 75,	34
1596	Depletion width measurement in an organic Schottky contact using a metal-semiconductor field-effect transistor. <b>2007</b> , 91, 083513	24
1595	Improved Performance in Polymer-Fullerene Blend Photovoltaic Cells by Insertion of C60 Interlayer. <b>2007</b> , 471, 123-128	6
1594	Effect of Fabrication Conditions on the Performance of MEH-PPV: PCBM Photovoltaic Devices. <b>2007</b> , 471, 129-135	2
1593	High quantum efficiency polymer photoconductors using interdigitated electrodes. <b>2007</b> , 91, 103504	12
1592	Fabrication of Molecular Micro-NanoStructures by Surface-Tension-Driven Technique. <b>2007</b> , 1002, 1	
1591	Photocell System Driven by Mechanoluminescence. <b>2007</b> , 46, 2385-2388	24
1590	Detrimental Effect of Inert Atmospheres on Hybrid Solar Cells Based on Semiconductor Oxides. <b>2007</b> , 154, B508	52
1589	Electronic and structural properties of poly-(3-octylthiophene) and graphitic nanoparticle blends. <b>2007</b> , 37, 283-286	4
1588	Contacts for semitransparent organic solar cells. <b>2007</b> , 37, 261-264	22
1587	Synthesis, Photophysical, and Electroluminescent Properties of Arylenevinylenes-co-pyrrolovinylenes Derived from Divinylaryl Bridged Bispyrroles. <b>2007</b> , 40, 2657-2665	14
1586	Hierarchical Assembly of 2D Nanostructures of Relevance for Organic Solar Cell Design. <b>2007</b> , 1031, 1	
1585	Novel donor-acceptor molecules as donors for bulk heterojunction solar cells. <b>2007</b> , 157, 502-507	40

1584	Investigation of crown-containing styrylthiophene derivatives which are optically and electrochemically sensitive to the presence of metal cations. <b>2007</b> , 157, 885-893	10
1583	Roles of donor and acceptor nanodomains in 6% efficient thermally annealed polymer photovoltaics. <b>2007</b> , 90, 1635-11	280
1582	Solvent-vapor treatment induced performance enhancement of poly(3-hexylthiophene):methanofullerene bulk-heterojunction photovoltaic cells. <b>2007</b> , 90, 043504	271
1581	Increasing the open circuit voltage of bulk-heterojunction solar cells by raising the LUMO level of the acceptor. <b>2007</b> , 9, 551-4	365
1580	Polymer Solar Cells. <b>2007</b> , 1-86	25
1579	Photochemical and photophysical properties of three carbon-bridged fullerene dimers: C121 (I, II, III). <b>2007</b> , 111, 6344-8	10
1578	Solution-processed organic tandem solar cells with embedded optical spacers. <b>2007</b> , 102, 074506	71
1577	Luminescent organometallic poly(aryleneethynylene)s: functional properties towards implications in molecular optoelectronics. <b>2007</b> , 4495-510	198
1576	Organic solar cells. Supramolecular composites of porphyrins and fullerenes organized by polypeptide structures as light harvesters. <b>2007</b> , 17, 4160	150
1575	Understanding and Improving Solid-State Polymer/C60-Fullerene Bulk-Heterojunction Solar Cells Using Ternary Porphyrin Blends. <b>2007</b> , 111, 15415-15426	68
1574	Phthalocyanines: old dyes, new materials. Putting color in nanotechnology. <b>2007</b> , 2000-15	665
1573	Band structure of indium oxide: Indirect versus direct band gap. <b>2007</b> , 75,	169
1572	Highly ordered thin films of a bis(dithienothiophene) derivative. <b>2007</b> , 17, 4972	29
1571	P3HT:PCBM Bulk Heterojunction Solar Cells: Morphological And Electrical Characterization And Performance Optimization. <b>2007</b> , 1013, 1	
1570	Synthesis, Photophysics, and Electroluminescence of Copolyfluorenes Containing DCM Derivatives. <b>2007</b> , 40, 8913-8923	28
1569	Electronic communication in tetrathiafulvalene (TTF)/C60 systems: toward molecular solar energy conversion materials?. <b>2007</b> , 40, 1015-24	326
1568	Fiber-based architectures for organic photovoltaics. <b>2007</b> , 90, 063501	67
1567	Dual electron donor/electron acceptor character of a conjugated polymer in efficient photovoltaic diodes. <b>2007</b> , 90, 193506	208

1566	Organic semiconducting oligomers for use in thin film transistors. <b>2007</b> , 107, 1066-96	1675
1565	Fluorene functionalised sexithiophenes—utilising intramolecular charge transfer to extend the photocurrent spectrum in organic solar cells. <b>2007</b> , 17, 1055-1062	28
1564	Optical geometries for fiber-based organic photovoltaics. <b>2007</b> , 90, 133515	59
1563	High response organic visible-blind ultraviolet detector. <b>2007</b> , 91, 093516	60
1562	Effect of traps on the performance of bulk heterojunction organic solar cells. <b>2007</b> , 91, 263505	307
1561	Modeling the imaging performance of prototype organic x-ray imagers. <b>2008</b> , 35, 225-39	25
1560	Magnetic field effects on current, electroluminescence and photocurrent in organic light-emitting diodes. <b>2007</b> , 19, 036209	16
1559	Dynamic characterization of organic bulk heterojunction photodetectors. <b>2007</b> , 91, 071118	47
1558	Synthesis and nonvolatile memory behavior of redox-active conjugated polymer-containing ferrocene. <b>2007</b> , 129, 9842-3	137
1557	Studies on conduction mechanisms of pentacene based diodes using impedance spectroscopy. <b>2007</b> , 40, 7687-7693	38
1556	Electrical characteristics of pentacene thin film junctions. <b>2007</b> ,	1
1555	Synthesis of Regioregular Poly(p-phenylenevinylene)s by Horner Reaction and Their Regioregularity Characterization. <b>2007</b> , 40, 6521-6528	32
1554	Amplified fluorescence quenching in high ionic strength media. <b>2007</b> , 3, 1381-1387	13
1553	Active Pixel Concept Combined With Organic Photodiode for Imaging Devices. <b>2007</b> , 28, 893-895	64
1552	Redistribution of emitting state population in conjugated polymers probed by single-molecule fluorescence polarization spectroscopy. <b>2007</b> , 9, 761-6	26
1551	Features of light to current transformations in organic devices. <b>2007</b> ,	
1550	Conjugated alternating copolymers containing both donor and acceptor moieties in the main chain. <b>2007</b> , 1704-6	21
1549	Synthesis and Characterization of a Fullerene Bearing a Triazole Group. <b>2007</b> , 19, 5194-5199	8

- 1548 Intramolecular Exciton Relaxation and Migration Dynamics in Poly(3-hexylthiophene). **2007**, 111, 15404-15414 76
- 1547 Nanometer scale carbon structures for charge-transfer systems and photovoltaic applications. **2007**, 9, 1400-20 110
- 1546 Optical properties of conjugated poly(3-hexylthiophene)/[6,6]-phenylC61-butyric acid methyl ester composites. **2007**, 102, 083104 33
- 1545 Oligothiophene catenanes and knots. Part II. Mono and dications. A theoretical study. **2007**, 111, 3124-31 10
- 1544 Insights on interfacial charge transfer across P3HT/fullerene photovoltaic heterojunction from Ab initio calculations. **2007**, 7, 1967-72 130
- 1543 Preparation of chiral cholestanofluorene and its electron-rich derivatives for isolation of a stable cation-radical salt. **2007**, 72, 1765-9 12
- 1542 Photoelectrochemistry of Stacked-Cup Carbon Nanotube Films. Tube-Length Dependence and Charge Transfer with Excited Porphyrin. **2007**, 111, 16626-16634 43
- 1541 Watching electrons move in real time: ultrafast infrared spectroscopy of a polymer blend photovoltaic material. **2007**, 129, 15884-94 85
- 1540 Effect of the End Group of Regioregular Poly(3-hexylthiophene) Polymers on the Performance of Polymer/Fullerene Solar Cells. **2007**, 111, 8137-8141 87
- 1539 Polymer Solar Cells Using Single-Wall Carbon Nanotubes Modified with Thiophene Pedant Groups. **2007**, 111, 18431-18438 66
- 1538 Synthesis, Hole Mobility, and Photovoltaic Properties of Cross-Linked Polythiophenes with Vinylene-terthiophene-Vinylene as Conjugated Bridge. **2007**, 40, 1831-1837 76
- 1537 Low Band Gap Donor-Acceptor Conjugated Polymers toward Organic Solar Cells Applications. **2007**, 40, 65-72 206
- 1536 Alternative Synthesis of C60-Diphenylaminofluorene Derivatives for Nonlinear Photonic Applications: Method of Preparation and Characterization. **2007**, 44, 1275-1282 3
- 1535 N-Type Conjugated Materials Based on 2-Vinyl-4,5-dicyanoimidazoles and Their Use in Solar Cells. **2007**, 19, 1892-1894 90
- 1534 Oligo(2,7-fluorene ethynylene)s with pyrene moieties: synthesis, characterization, photoluminescence, and electroluminescence. **2007**, 72, 8345-53 53
- 1533 Organic Dyes Containing 1H-Phenanthro[9,10-d]imidazole Conjugation for Solar Cells. **2007**, 111, 18785-18793 135
- 1532 A density functional theory (DFT) and time-dependent density functional theory (TDDFT) study on optical transitions in oligo(p-phenylenevinylene)-fullerene dyads and the applicability to resonant energy transfer. **2007**, 111, 4821-8 24
- 1531 Theoretical Study of Long Oligothiophene Polycations as a Model for Doped Polythiophene. **2007**, 111, 10662-10672 44

1530	3,4-Alkylenedioxy pyrrole-Based Conjugated Polymers with Finely Tuned Electronic and Optical Properties via a Flexible and Efficient N-Functionalization Method. <b>2007</b> , 40, 7777-7785	27
1529	Double-walled carbon nanotube solar cells. <b>2007</b> , 7, 2317-21	298
1528	Isoregic Thienylene-Phenylene Polymers: The Effects of Structural Variation and Application to Photovoltaic Devices. <b>2007</b> , 44, 665-674	4
1527	Nanocomposites based on cellulose whiskers and (semi)conducting conjugated polymers. <b>2007</b> , 17, 2746	88
1526	Meeting the Clean Energy Demand: Nanostructure Architectures for Solar Energy Conversion. <b>2007</b> , 111, 2834-2860	1928
1525	Monte Carlo Simulation of Exciton Bimolecular Annihilation Dynamics in Supramolecular Semiconductor Architectures $\square$ <b>2007</b> , 111, 19111-19119	13
1524	Highly efficient organic devices based on electrically doped transport layers. <b>2007</b> , 107, 1233-71	1310
1523	Photophysics and electrochemistry of conjugated oligothiophenes prepared by using azomethine connections. <b>2007</b> , 72, 8882-92	43
1522	Dimensionality of electronic excitations in organic semiconductors: A dielectric function approach. <b>2007</b> , 76,	30
1521	Organic spintronics. <b>2007</b> , 40, R205-R228	395
1520	A fulleropyrrolidine end-capped platinum-acetylide triad: the mechanism of photoinduced charge transfer in organometallic photovoltaic cells. <b>2007</b> , 9, 2724-34	67
1519	Molecular engineering of the internal charge transfer in thiophene-triphenylamine hybrid pi-conjugated systems. <b>2007</b> , 72, 8332-6	143
1518	Conjugated alternating copolymer of dialkylquaterthiophene and fluorenone: synthesis, characterisation and photovoltaic properties. <b>2007</b> , 17, 4661	43
1517	Soluble Asymmetric Perylene Derivatives for Organic Solar Cells. <b>2007</b> , 249-250, 461-465	9
1516	Panchromatic Conjugated Polymers Containing Alternating Donor/Acceptor Units for Photovoltaic Applications. <b>2007</b> , 40, 1981-1986	409
1515	The use of ZnO as optical spacer in polymer solar cells: Theoretical and experimental study. <b>2007</b> , 91, 113520	316
1514	Through-space communication in a TTF $\square$ 60 $\square$ TF triad. <b>2007</b> , 31, 230-236	12
1513	Synthesis of a Soluble n-Type Cyano Substituted Polythiophene Derivative: A Potential Electron Acceptor in Polymeric Solar Cells. <b>2007</b> , 111, 10732-10740	46

1512	Recent Advances in Organic Solar Cells. <b>2007</b> , 2007, 1-15		68
1511	Conjugated conducting polymers. 312-340		3
1510	Redox-controlled interaction of biferrocenyl-terminated dendrimers with beta-cyclodextrin molecular printboards. <b>2007</b> , 13, 69-80		46
1509	Twisting of conjugated oligomers and polymers: case study of oligo- and polythiophene. <b>2007</b> , 13, 3688-700	15.0	
1508	Effect of core twisting on self-assembly and optical properties of perylene bisimide dyes in solution and columnar liquid crystalline phases. <b>2007</b> , 13, 450-65		325
1507	Syntheses and energy transfer in multiporphyrinic arrays self-assembled with hydrogen-bonding recognition groups and comparison with covalent steroidal models. <b>2007</b> , 13, 8411-27		42
1506	Preparation and characterization of a novel composite based on hyperbranched polysilane and fullerene. <b>2007</b> , 105, 821-826		8
1505	Electrical conductivity and mechanical properties of polyaniline/natural rubber composite fibers. <b>2007</b> , 106, 4038-4046		36
1504	Band-Offset Engineering for Enhanced Open-Circuit Voltage in Polymer/Oxide Hybrid Solar Cells. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 264-269	15.6	184
1503	Microphase-Separated Donor-Acceptor Diblock Copolymers: Influence of HOMO Energy Levels and Morphology on Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 1493-1500	15.6	160
1502	Organic Bulk-Heterojunction Photovoltaics Based on Alkyl Substituted Discotics. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 2528-2533	15.6	75
1501	3D Conjugated Oligothiophenes Based on Sterically Twisted Bithiophene Nodes. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 1163-1171	15.6	65
1500	Poly(3-hexylthiophene) Fibers for Photovoltaic Applications. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 1377-1384	15.6	464
1499	Characterization of Organic Solar Cells: the Importance of Device Layout. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 3906-3910	15.6	102
1498	Green Light for the Future. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 2633-2634	15.6	
1497	Device Physics of Polymer:Fullerene Bulk Heterojunction Solar Cells. <b>2007</b> , 19, 1551-1566		1759
1496	A Low-Bandgap Poly(2,7-Carbazole) Derivative for Use in High-Performance Solar Cells. <b>2007</b> , 19, 2295-2300		1149
1495	Ambipolar Transport in Organic Conjugated Materials. <b>2007</b> , 19, 1791-1799		253

1494	Magnetoswitchable Charge Transport and Bioelectrocatalysis Using Maghemite-Au Core-Shell Nanoparticle/Polyaniline Composites. <b>2007</b> , 19, 2691-2695	54
1493	From One- to Three-Dimensional Organic Semiconductors: In Search of the Organic Silicon?. <b>2007</b> , 19, 2045-2060	366
1492	Formation of the Interfacial Dipole at Organic-Organic Interfaces: C60/Polymer Interfaces. <b>2007</b> , 19, 4213-4217	150
1491	Microwave Annealing of Polymer Photovoltaic Devices. <b>2007</b> , 19, 3520-3523	80
1490	Photoluminescent Paper Based on Poly(fluorene-co-fluorenone) Particles Adsorption on Modified Cellulose Fibers. <b>2007</b> , 19, 3291-3294	28
1489	Rubrene/Fullerene Heterostructures with a Half-Gap Electroluminescence Threshold and Large Photovoltage. <b>2007</b> , 19, 3613-3617	94
1488	Recent Developments in Polymer MEMS. <b>2007</b> , 19, 3783-3790	325
1487	Efficient Polymer Solar Cells Fabricated by Simple Brush Painting. <b>2007</b> , 19, 4410-4415	162
1486	Excited state properties, fluorescence energies, and lifetime of a poly(fluorene-pyridine) copolymer, based on TD-DFT investigation. <b>2007</b> , 28, 1735-42	16
1485	Structural, electronic, and optical properties of phosphole-containing pi-conjugated oligomers for light-emitting diodes. <b>2007</b> , 28, 2500-9	36
1484	A Novel Amphiphilic ReI Complex with Bis(fullerene)-Substituted Bipyridine Ligands: Synthesis, Electrochemistry, and Langmuir Film. <b>2007</b> , 2007, 503-508	3
1483	Comparison between the Photophysical Properties of Pyrazolo- and Isoxazolo[60]fullerenes with Dual Donors (Ferrocene, Aniline and Alkoxyphenyl). <b>2007</b> , 2007, 2175-2185	18
1482	Photovoltaic Characteristics of a Naphthylamine Derivative. <b>2007</b> , 25, 1242-1245	
1481	Impact of bridging units on the dynamics of photoinduced charge generation and charge recombination in donor-acceptor dyads. <b>2007</b> , 8, 1240-9	39
1480	Hyperbranched Poly(p-phenylene ethynylene)s. <b>2007</b> , 208, 1625-1636	26
1479	Poly(quinoxaline vinylene) With Conjugated Phenylenevinylene Side Chain: A Potential Polymer Acceptor With Broad Absorption Band. <b>2007</b> , 208, 1294-1300	12
1478	The Influence of Interchain Branches on Solid State Packing, Hole Mobility and Photovoltaic Properties of Poly(3-hexylthiophene) (P3HT). <b>2007</b> , 28, 1781-1785	56
1477	Oligomers and Polymers Based on Bridged Phenylenes as Electronic Materials. <b>2007</b> , 28, 1676-1702	178

1476	Effect of the Molecular Weight of Poly(3-hexylthiophene) on the Morphology and Performance of Polymer Bulk Heterojunction Solar Cells. <b>2007</b> , 28, 1776-1780	221
1475	Molecular Engineering of the Band Gap of $\pi$ -Conjugated Systems: Facing Technological Applications. <b>2007</b> , 28, 1761-1775	554
1474	A New Poly(2,7-Dibenzosilole) Derivative in Polymer Solar Cells. <b>2007</b> , 28, 2176-2179	144
1473	A self-rechargeable and flexible polymer solar battery. <b>2007</b> , 81, 947-957	91
1472	Characterisation and application of new carboxylic acid-functionalised ruthenium complexes as dye-sensitisers for solar cells. <b>2007</b> , 91, 230-237	32
1471	Effect of annealing on the optical, electrical, and photovoltaic properties of bulk hetero-junction device based on PPAT:TY blend. <b>2007</b> , 91, 275-284	28
1470	Photophysics and morphology investigation based on perylenetetracarboxylate/polymer photovoltaic devices. <b>2007</b> , 91, 261-265	4
1469	Relation between exciplex formation and photovoltaic properties of PPV polymer-based blends. <b>2007</b> , 91, 411-415	18
1468	Efficiency limiting factors of organic bulk heterojunction solar cells identified by electrical impedance spectroscopy. <b>2007</b> , 91, 390-393	206
1467	Organic photovoltaic devices based on polythiophene films electrodeposited on FTO substrates. <b>2007</b> , 91, 684-688	48
1466	Improvement of device performances by thin interlayer in conjugated polymers/methanofullerene plastic solar cell. <b>2007</b> , 91, 751-753	15
1465	Vertically aligned ZnO nanowire arrays in Rose Bengal-based dye-sensitized solar cells. <b>2007</b> , 91, 769-773	159
1464	Synthesis and photovoltaic properties of soluble fulleropyrrolidine derivatives for organic solar cells. <b>2007</b> , 91, 892-896	22
1463	Optimization of process parameters for high-efficiency polymer photovoltaic devices based on P3HT:PCBM system. <b>2007</b> , 91, 1187-1193	80
1462	Transparent conductors as solar energy materials: A panoramic review. <b>2007</b> , 91, 1529-1598	1225
1461	Bulk heterojunctions based on a low band gap copolymer of thiophene and benzothiadiazole. <b>2007</b> , 91, 1631-1637	41
1460	Spectrally dependent photocurrent generation in aggregated MEH-PPV:PPDI donor-acceptor blends. <b>2007</b> , 91, 1842-1848	14
1459	Silicon-organic pigment material hybrids for photovoltaic application. <b>2007</b> , 91, 1873-1886	31



1458	Brightly full-color emissions of oligo(p-phenylenevinylene)s: substituent effects on photophysical properties. <b>2007</b> , 63, 3168-3172	17
1457	Molecular engineering of hybrid $\pi$ -conjugated oligomers combining 3,4-ethylenedioxythiophene (EDOT) and thiophene-S,S-dioxide units. <b>2007</b> , 63, 9774-9783	23
1456	Synthesis, electronic, and photophysical properties of cruciform OPE/OPV hybrid oligomer bridged bisfullerene triads. <b>2007</b> , 48, 3563-3567	19
1455	Thin composite films consisting of polypyrrole and polyparaphenylene. <b>2007</b> , 515, 7712-7715	4
1454	Fourier transform photocurrent spectroscopy applied to a broad variety of electronically active thin films (silicon, carbon, organics). <b>2007</b> , 515, 7499-7503	8
1453	Optical and photovoltaic properties of thin films of N,N'-dimethyl-3,4,9,10-perylenetetracarboxylic acid diimide. <b>2007</b> , 515, 7950-7957	19
1452	Vertical phase separation in spin-coated films of a low bandgap polyfluorene/PCBM blend: Effects of specific substrate interaction. <b>2007</b> , 253, 3906-3912	122
1451	Distributed decay kinetics of charge separated state in solid film. <b>2007</b> , 437, 238-242	21
1450	Organic photovoltaic cells using hexadecafluorophthalocyaninacopper (F16CuPc) as electron acceptor material. <b>2007</b> , 446, 329-332	29
1449	Preparation and characterization of methanofullerenes for polymer/fullerene bulk heterojunction solar cells. <b>2007</b> , 45, 2951-2956	17
1448	Thin film morphology and ion interaction behaviour of functional polymers for iontronic applications. <b>2007</b> , 52, 6229-6236	9
1447	Influences of local polymer/solvent interaction on dynamics of phenyl ring rotation and its role on photophysics of conjugated polymer. <b>2007</b> , 43, 478-487	11
1446	Synthesis, characterization and photovoltaic properties of thiophene copolymers containing conjugated side-chain. <b>2007</b> , 43, 855-861	16
1445	Tuning of the electronic properties of self-assembling and highly sensitive chromic polyalkylthiophenes. <b>2007</b> , 43, 835-846	10
1444	Imprinting strategies for 100 nm lithography on polyfluorene and poly(phenylenevinylene) derivatives and their blends. <b>2007</b> , 27, 1428-1433	2
1443	Magnetic field release of trapped charges in poly(fluorenylenevinylene)s. <b>2007</b> , 8, 695-701	22
1442	Control of molecular orientation of organic p <i>n</i> i structures by using molecular templating effect at heterointerfaces. <b>2007</b> , 8, 702-708	24
1441	Correlation between mobility enhancement and conformational change in polyaniline and its derivatives: Polaron lattice formation. <b>2007</b> , 52, 3615-3620	14

1440	Morphological effect on spectral property of poly(9,9-dihexylfluorene-alt-2,5-dihexyloxybenzene) films. <b>2007</b> , 43, 4613-4618	2
1439	Synthesis and investigation of fullerene-based acceptor materials. <b>2007</b> , 17, 175-177	24
1438	New materials for micro-scale sensors and actuators. <b>2007</b> , 56, 1-129	384
1437	Synthesis and characterization of fluorescent poly(oxadiazole)s containing 3,4-dialkoxythiophenes. <b>2007</b> , 29, 1710-1718	19
1436	Effects of thin film processing on pentacene/C60 bilayer solar cell performance. <b>2007</b> , 8, 566-574	80
1435	The polaronic soliton in a narrow gap system. <b>2007</b> , 226, 80-94	
1434	Dissociation of bipolaron in non-degenerate polymer chain at high electric fields. <b>2007</b> , 364, 425-428	8
1433	Hybrid solar cells with ordered TiO <sub>2</sub> nanostructures and MEH-PPV. <b>2007</b> , 188, 364-370	54
1432	Femtosecond spectroscopic studies of photoinduced electron transfer in MDMO-PPV:ZnO hybrid bulk heterojunctions. <b>2007</b> , 122-123, 546-548	4
1431	Temperature dependence of photoluminescence in MEH-PPV blend films. <b>2007</b> , 124, 81-84	14
1430	Surface-enhanced Raman scattering on mercaptopyrindine-capped CdS microclusters. <b>2007</b> , 66, 1199-203	54
1429	Photovoltaics from soluble small molecules. <b>2007</b> , 10, 34-41	356
1428	Nanoscale phase-aggregation-induced performance improvement of polymer solar cells. <b>2007</b> , 3, 611-5	38
1427	Nanostructuring with a crosslinkable discotic material. <b>2007</b> , 3, 1438-44	21
1426	Synthesis and photovoltaic properties of a low-band-gap polymer consisting of alternating thiophene and benzothiadiazole derivatives for bulk-heterojunction and dye-sensitized solar cells. <b>2007</b> , 45, 1394-1402	63
1425	Synthesis and characterization of conjugated triblock copolymers. <b>2007</b> , 45, 2410-2424	26
1424	Nonisothermal crystallization behavior of a luminescent conjugated polymer, poly(9,9-dihexylfluorene-alt-2,5-didodecyloxybenzene). <b>2007</b> , 56, 245-251	4
1423	Conjugated polymers with tethered electron-accepting moieties as ambipolar materials for photovoltaics. <b>2007</b> , 56, 943-956	65

1422	A review of charge transport and recombination in polymer/fullerene organic solar cells. <b>2007</b> , 15, 677-696	461
1421	Analysis of the failure mechanism for a stable organic photovoltaic during 10 000 h of testing. <b>2007</b> , 15, 697-712	347
1420	High-resolution morphological and electrical characterisation of organic bulk heterojunction solar cells by scanning probe microscopy. <b>2007</b> , 15, 713-726	32
1419	Structure and properties of $\pi$ -cyclo[N]thiophenes as potential electronic materials: a theoretical study. <b>2007</b> , 20, 554-567	16
1418	On the mechanism of electrical conduction in some new quaternary salts of bipyridine and indolizine pyridine in thin films. <b>2007</b> , 58, 303-311	7
1417	An 8 $\times$ 8 Pixel Array Pen-Input OLED Screen Based on Organic Magnetoresistance. <b>2007</b> , 54, 1571-1577	23
1416	The role of interface in photo processes in photoconductive heterophase composites based on monolayer dispersions of molybdenum disulfide. <b>2007</b> , 81, 1870-1876	1
1415	Development of dendrimers: macromolecules for use in organic light-emitting diodes and solar cells. <b>2007</b> , 107, 1097-116	683
1414	Electronic structure of hybrid interfaces for polymer-based electronics. <b>2007</b> , 19, 183202	102
1413	Double and triple junction polymer solar cells processed from solution. <b>2007</b> , 90, 143512	306
1412	Tuning the absorption, charge transport properties, and solar cell efficiency with the number of thienyl rings in platinum-containing poly(aryleneethynylene)s. <b>2007</b> , 129, 14372-80	231
1411	Ionic strength and solvent control over the physical structure, electronic properties and superquenching of conjugated polyelectrolytes. <b>2007</b> , 33, 125-142	16
1410	Self-assembly of rod-coil block copolymers from weakly to moderately segregated regimes. <b>2007</b> , 24, 379-84	31
1409	Metallo-Supramolecular Polymerization: A Route to Easy-To-Process Organic/Inorganic Hybrid Materials. <b>2007</b> , 17, 91-103	75
1408	Ferrocene-containing Liquid Crystalline Polymers. <b>2007</b> , 17, 19-36	20
1407	Effect of surfactants on the fluorescence spectra of water-soluble MEHPPV derivatives having grafted polyelectrolyte chains. <b>2007</b> , 119, 185-193	6
1406	Progress in polymer solar cell. <b>2007</b> , 52, 145-158	16
1405	Grafting of poly(ethylene oxide) onto C60 fullerene using macroazo initiators. <b>2007</b> , 48, 1972-1980	20

1404	Electrochemical fabrication of p-poly(3-methylthiophene)/n-silicon solar cells. <b>2007</b> , 91, 1811-1815	11
1403	Large area plastic solar cell modules. <b>2007</b> , 138, 106-111	215
1402	Theoretical studies of the electronic structures and optical properties of stable blue-emitting polymer based on 4H-cyclopenta-[def]-phenanthrene. <b>2008</b> , 49, 2077-2084	4
1401	New photoactive oligo- and poly-alkylthiophenes. <b>2008</b> , 49, 4942-4948	31
1400	Air stable polymer photovoltaics based on a process free from vacuum steps and fullerenes. <b>2008</b> , 92, 715-726	272
1399	Towards optimization of device performance in conjugated polymer photovoltaics: Charge generation, transfer and transport in poly(p-phenylene-vinylene) polymer heterojunctions. <b>2008</b> , 92, 651-659	26
1398	P3HT/ZnO bulk-heterojunction solar cell sensitized by a perylene derivative. <b>2008</b> , 92, 766-771	48
1397	Scanning-induced structure transformation between self-assembled phases of pentacene on Ag/Si(111). <b>2008</b> , 602, 358-364	10
1396	Dithienothiophene based polymer as electron donor in plastic solar cells. <b>2008</b> , 516, 7205-7208	22
1395	Research in solar cell technologies at Tallinn University of Technology. <b>2008</b> , 516, 7125-7134	12
1394	Electrochemical polymerization of 9-fluorene-carboxylic acid and its electrochromic device application. <b>2008</b> , 516, 7329-7334	20
1393	Fabrication of anodic photocurrent generation systems by use of 6-O-dihydrophytylcellulose as a matrix or a scaffold of porphyrins. <b>2008</b> , 15, 825-835	9
1392	Fluorescence quenching of substituted polyperylene with functionalized polythiophenes. <b>2008</b> , 18, 891-8	3
1391	Interfacial analysis and properties of regioregular poly(3-hexyl thiophene) spin-coated on an indium tin oxide-coated glass substrate. <b>2008</b> , 43, 5599-5604	16
1390	Charge-transport and photocurrent generation in bulk hetero junction based on Chloro-aluminum phthalocyanine (ClAlPc) and Rose Bengal (RB). <b>2008</b> , 43, 5551-5563	16
1389	Annealing temperature effect of hole-collecting polymeric nanolayer in polymer solar cells. <b>2008</b> , 16, 185-188	11
1388	Solvent-induced photoemissions of high-energy chromophores of conjugated Polymer MEH-PPV: Role of conformational disorder. <b>2008</b> , 16, 224-230	7
1387	Thin-Films of Poly-Triarylaminines for Electro-Optic Applications. <b>2008</b> , 59, 795-803	6

1386	Novel Fluorene-based Conjugated Copolymers with Donor-acceptor Structures for Photovoltaic Applications. <b>2008</b> , 60, 581-590	14
1385	Effect of C60 on methyl red and crystal violet dye-doped photovoltaic device. <b>2008</b> , 14, 263-267	6
1384	Soft lithography meets self-organization: Some new developments in meso-patterning. <b>2008</b> , 31, 249-261	28
1383	First-principles approach to the understanding of $\pi$ -conjugated organic semiconductors. <b>2008</b> , 139, 389-399	5
1382	Effect of the regioregularity of poly(3-hexylthiophene) on the performances of organic photovoltaic devices. <b>2008</b> , 57, 764-769	41
1381	Phthalocyanines: from outstanding electronic properties to emerging applications. <b>2008</b> , 8, 75-97	494
1380	NMR study of the nanomorphology in thin films of polymer blends used in organic PV devices: MDMO-PPV/PCBM. <b>2008</b> , 46, 138-145	51
1379	Synthesis and self-assembly of amphiphilic dendronized conjugated polymers. <b>2008</b> , 46, 574-584	19
1378	A facile route of polythiophene nanoparticles via Fe <sup>3+</sup> -catalyzed oxidative polymerization in aqueous medium. <b>2008</b> , 46, 2097-2107	67
1377	Polyfluorenes minimally doped with 1,4-bis(2-thienyl-2-cyanovinyl)benzene chromophore: Their synthesis, characterization, and application to white-light-emitting materials. <b>2008</b> , 46, 3703-3713	20
1376	Synthesis and properties of polythiophene derivatives containing triphenylamine moiety and their photovoltaic applications. <b>2008</b> , 46, 3970-3984	85
1375	Synthesis and characterization of fluorene-based low-band gap copolymers containing propylenedioxythiophene and benzothiadiazole derivatives for bulk heterojunction photovoltaic cell applications. <b>2008</b> , 46, 6175-6184	18
1374	Thiophene $\pi$ -phenylene/naphthalene-based step-ladder copolymers. <b>2008</b> , 46, 7342-7353	10
1373	Synthesis of terpyridine ligands and their complexation with Zn <sup>2+</sup> and Ru <sup>2+</sup> for optoelectronic applications. <b>2008</b> , 46, 7702-7712	46
1372	Enhancing the electrochromic characteristics of conjugated polymer with TiO <sub>2</sub> nano-rods. <b>2008</b> , 46, 1121-1130	13
1371	Detailed balance and reciprocity in solar cells. <b>2008</b> , 205, 2737-2751	87
1370	Metallopolyyne Polymers as New Functional Materials for Photovoltaic and Solar Cell Applications. <b>2008</b> , 209, 14-24	136
1369	Organometallic Polymer Light-Emitting Diodes Derived from a Platinum(II) Polyyne Containing the Bithiazole Ring. <b>2008</b> , 209, 1319-1332	46

1368	Increased Electrical Conductivity in Poly(3,4-ethylenedioxythiophene) upon Cross-Linking. <b>2008</b> , 209, 1959-1966		6
1367	Morphology and Photophysical Properties of Electrospun Light-Emitting Polystyrene/Poly(p-phenylene ethynylene) Fibers. <b>2008</b> , 293, 952-963		6
1366	Low-Band Gap Polymeric Cyanine Dyes Absorbing in the NIR Region. <b>2008</b> , 29, 651-658		33
1365	Narrow Energy Gap Polymers with Absorptions up to 1 200 nm and their Photovoltaic Properties. <b>2008</b> , 29, 1804-1809		51
1364	Study of hopping transport in long oligothiophenes and oligoselenophenes: dependence of reorganization energy on chain length. <b>2008</b> , 14, 6734-41		76
1363	Impedance spectroscopy of N-substituted oligo-oxyethylene polypyrrole films. <b>2008</b> , 108, 2373-2378		3
1362	Novel porphyrin-grafted poly(phenylene vinylene) derivatives: Synthesis and photovoltaic properties. <b>2008</b> , 109, 2283-2290		20
1361	Cationic water-soluble poly(p-phenylene vinylene) for fluorescence sensors and electrostatic self-assembly nanocomposites with quantum dots. <b>2008</b> , 110, 3225-3233		8
1360	Synthesis of poly(paraphenylene vinylene) polystyrene-based rod-coil block copolymer by atom transfer radical polymerization: Toward a self-organized lamellar semiconducting material. <b>2008</b> , 110, 3664-3670		24
1359	Polymer-fullerene composite solar cells. <b>2008</b> , 47, 58-77		3700
1358	Highly conductive supramolecular nanostructures of a covalently linked phthalocyanine-C60 fullerene conjugate. <b>2008</b> , 47, 2026-31		68
1357	Organic Tandem and Multi-Junction Solar Cells. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 169-181	15.6	215
1356	Intramolecular Donor-Acceptor Regioregular Poly(3-hexylthiophene)s Presenting Octylphenanthrenyl-Imidazole Moieties Exhibit Enhanced Charge Transfer for Heterojunction Solar Cell Applications. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 2356-2365	15.6	89
1355	Design of Multilayered Nanostructures and Donor-Acceptor Interfaces in Solution-Processed Thin-Film Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 1563-1572	15.6	28
1354	Cyclodextrin-Threaded Conjugated Polyrotaxanes for Organic Electronics: The Influence of the Counter Cations. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 2419-2427	15.6	35
1353	Luminescent Tags on Fullerenes: Eu <sup>3+</sup> Complexes with Pendant Fullerenes. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 2808-2814	15.6	10
1352	Organic-Oxide Cathode Buffer Layer in Fabricating High-Performance Polymer Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3036-3042	15.6	42
1351	Effect of Oligothiophenyl Chain Length on Tuning the Solar Cell Performance in Fluorene-Based Polyplatinyne. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 2824-2833	15.6	121

1350	Doped Conductive Polymers: Modeling of Polythiophene with Explicitly Used Counterions. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3377-3385	15.6	35
1349	Efficient Polymer Solar Cells with Surface Relief Gratings Fabricated by Simple Soft Lithography. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3956-3963	15.6	215
1348	Electronic Transport Properties of Ensembles of Perylene-Substituted Poly-isocyanopeptide Arrays. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3947-3955	15.6	68
1347	LiF as an n-Dopant in Tris(8-hydroxyquinoline) Aluminum Thin Films. <b>2008</b> , 20, 1456-1461		66
1346	Fullerene Bisadducts for Enhanced Open-Circuit Voltages and Efficiencies in Polymer Solar Cells. <b>2008</b> , 20, 2116-2119		546
1345	Bilayer Approach to Laser-Induced Thermal Patterning of $\pi$ -Conjugated Polymers. <b>2008</b> , 20, 2486-2490		12
1344	Donor-Acceptor Oligothiophenes as Low Optical Gap Chromophores for Photovoltaic Applications. <b>2008</b> , 20, 4810-4815		71
1343	Polymer Solar Cells That Use Self-Assembled-Monolayer- Modified ZnO/Metals as Cathodes. <b>2008</b> , 20, 2376-2382		446
1342	Efficient and Flexible ITO-Free Organic Solar Cells Using Highly Conductive Polymer Anodes. <b>2008</b> , 20, 4061-4067		754
1341	Recent Applications of Conjugated Polyelectrolytes in Optoelectronic Devices. <b>2008</b> , 20, 3793-3810		336
1340	Exploiting Ionic Coupling in Electronic Devices: Electrolyte-Gated Organic Field-Effect Transistors. <b>2008</b> , 20, 3177-3180		152
1339	Supramolecular Organization and Photovoltaics of Triangle-shaped Discotic Graphenes with Swallow-tailed Alkyl Substituents. <b>2008</b> , 20, 2684-9		74
1338	Polymer-Fulleren-Solarzellen. <b>2008</b> , 120, 62-82		232
1337	Highly Conductive Supramolecular Nanostructures of a Covalently Linked Phthalocyanine $\pi$ 60 Fullerene Conjugate. <b>2008</b> , 120, 2056-2061		11
1336	Exciton formation with interchain couplings in organic polymers. <b>2008</b> , 372, 2490-2495		21
1335	Synthesis and characterization of 2-D and 3-D covalent networks derived from triazine central cores and bridging aromatic diamines. <b>2008</b> , 49, 1137-1144		9
1334	Fabrication and characterization of in situ polymerized n-polyaniline films grown on p-Si heterojunctions. <b>2008</b> , 85, 2309-2315		17
1333	Improved performance in n-channel organic thin film transistors by nanoscale interface modification. <b>2008</b> , 9, 262-266		16

1332	Substituting the postproduction treatment for bulk-heterojunction solar cells using chemical additives. <b>2008</b> , 9, 775-782	88
1331	Polymer solar cells with poly(3,4-ethylenedioxythiophene) as transparent anode. <b>2008</b> , 9, 968-973	90
1330	Performance and lifetime improvement of polymer/fullerene blend photovoltaic cells with a C60 interlayer. <b>2008</b> , 9, 1022-1025	32
1329	Towards a new type of step growth polymerization: Synthesis of dehydro-oligomers of 2,6- and 2,7-dimethylantraquinone. <b>2008</b> , 68, 414-423	4
1328	Synthesis and characterization of polythiophene/titanium dioxide composites. <b>2008</b> , 68, 1492-1498	98
1327	Organic/inorganic hybrid composites for photovoltaics: Organic guest molecules embedded in $\beta$ -Si and ZnSe host matrices. <b>2008</b> , 33, 262-266	8
1326	Synthesis, characterization and photovoltaic properties of a low-bandgap platinum(II) polyyne functionalized with a 3,4-ethylenedioxythiophene-benzothiadiazole hybrid spacer. <b>2008</b> , 693, 3603-3612	49
1325	Hybrid photovoltaic cell with well-ordered nanoporous titania/P3HT by nanoimprinting lithography. <b>2008</b> , 69, 1301-1304	19
1324	Optical, electrical and photovoltaic properties of thermally annealed PPHT:DDE blend thin films. <b>2008</b> , 69, 2639-2651	10
1323	Modified electrode architecture for efficient and air-stable polymer solar cells based on P3HT:PCBM. <b>2008</b> , 194, 161-166	8
1322	Synthesis and characterization of fluorine/thiophene-based $\pi$ -conjugated polymers using coupling reaction. <b>2008</b> , 14, 810-817	24
1321	Synthesis and characterization of some 5-coordinated aluminum-8-hydroxyquinoline derivatives for OLED applications. <b>2008</b> , 29, 351-357	14
1320	Impedance change induced by varying polymerization temperature of conducting polymer thin films. <b>2008</b> , 10, 416-419	6
1319	Intermolecular resonant energy transfer of oligo(p-phenylenevinylene)/fullerene dyads: A theoretical study. <b>2008</b> , 451, 243-248	1
1318	Large two photon absorption cross section of asymmetric Zn(II) porphyrin complexes substituted in the meso or pyrrolic position by $\text{C}_6\text{H}_4\text{X}$ moieties (X=NMe <sub>2</sub> , NO <sub>2</sub> ). <b>2008</b> , 454, 70-74	23
1317	Band unpinning and photovoltaic model for P3HT:PCBM organic bulk heterojunctions under illumination. <b>2008</b> , 465, 57-62	105
1316	Layered self-organized structures on poly(3-octylthiophene) thin films studied by scanning probe microscopy. <b>2008</b> , 44, 2506-2515	14
1315	Optical and electrical properties of hybrid photovoltaic devices from poly (3-phenyl hydrazone thiophene) (PPHT) and TiO <sub>2</sub> blend films. <b>2008</b> , 92, 61-70	35



1314	Novel hybrid polymer photovoltaics made by generating silver nanoparticles in polymer:fullerene bulk-heterojunction structures. <b>2008</b> , 92, 397-401	57
1313	Poly(3-hexylthiophene)/C60 heterojunction solar cells: Implication of morphology on performance and ambipolar charge collection. <b>2008</b> , 92, 464-473	50
1312	An explanation for the high stability of polycarboxythiophenes in photovoltaic devices: A solid-state NMR dipolar recoupling study. <b>2008</b> , 92, 772-784	44
1311	Photoresponsive properties of multilayers of conductive polymer and CdSe nanoparticles. <b>2008</b> , 92, 543-549	11
1310	Preparation and characterization of nano-scale ZnO as a buffer layer for inkjet printing of silver cathode in polymer solar cells. <b>2008</b> , 92, 564-570	38
1309	Stability/degradation of polymer solar cells. <b>2008</b> , 92, 686-714	1982
1308	Biodegradable polymer solar cells. <b>2008</b> , 92, 805-813	73
1307	A setup for studying stability and degradation of polymer solar cells. <b>2008</b> , 92, 736-745	70
1306	Photovoltaic and photophysical properties of a novel bis-3-hexylthiophene substituted quinoxaline derivative. <b>2008</b> , 92, 1162-1169	28
1305	Star-shaped conjugated systems derived from dithiafulvenyl-derivatized triphenylamines as active materials for organic solar cells. <b>2008</b> , 92, 1170-1174	42
1304	New approach for nanoscale morphology of polymer solar cells. <b>2008</b> , 92, 1188-1191	13
1303	Tuning the LUMO level of the acceptor to increase the open-circuit voltage of polymer-fullerene solar cells: A quantum chemical study. <b>2008</b> , 92, 1192-1198	65
1302	Study the effect of distribution of density of states on the depletion width of organic Schottky contacts. <b>2008</b> , 52, 1717-1721	7
1301	Synthesis, electrochemical, and spectroscopic properties of soluble perylene monoimide diesters. <b>2008</b> , 64, 5404-5409	28
1300	Donor-acceptor benzothiazole-derived dyes with an extended heteroaryl-containing conjugated system: synthesis, DFT study and antimicrobial activity. <b>2008</b> , 64, 10605-10618	65
1299	Triazole-linked dendro[60]fullerenes: modular synthesis via a Huisgen 1,3-dipolar cycloaddition reaction and acidity-dependent self-assembly on the surface. <b>2008</b> , 64, 11420-11432	19
1298	Matrix-Assisted Pulsed Laser Evaporation of polythiophene films. <b>2008</b> , 516, 1594-1598	38
1297	Photoluminescence and photoconductivity studies of oriented polyfluorene thin films. <b>2008</b> , 516, 2392-2395	5

1296	Structural and chemical investigation of CdSe crystals deposited in a nanoporous sol-gel: Effect of chemistry and defects on photovoltaic properties. <b>2008</b> , 516, 2203-2212	7
1295	Influence of the processing conditions on charge transfer and transport properties in poly(2-methoxy-5-(2-ethylhexyloxy)1-4-phenylenevinylene):C60 composites for photovoltaics. <b>2008</b> , 516, 1578-1583	12
1294	Effects of film treatment on the performance of poly(3-hexylthiophene)/soluble fullerene-based organic solar cells. <b>2008</b> , 516, 3138-3142	58
1293	Organic photovoltaic cell employing organic heterojunction as buffer layer. <b>2008</b> , 516, 3320-3323	20
1292	Small molecule organic solar cells based on phthalocyanine/perylene-barbazole donor-acceptor couple. <b>2008</b> , 516, 7171-7175	19
1291	Tunable emission from composite polymer nanoparticles based on resonance energy transfer. <b>2008</b> , 516, 6287-6292	17
1290	Highly polarized light emission from uniaxially aligned thin films of biphenyl/thienothiophene co-oligomer. <b>2008</b> , 516, 7505-7510	5
1289	Characteristics of Al doped ZnO co-sputtered InZnO anode films prepared by direct current magnetron sputtering for organic light-emitting diodes. <b>2008</b> , 516, 7866-7870	25
1288	Bulk heterojunction solar cells based on two kinds of organic polymers and fullerene derivative. <b>2008</b> , 313-314, 422-425	21
1287	Synthesis of nanostructured sol-gel ITO films at different temperatures and study of their absorption and photoluminescence properties. <b>2008</b> , 31, 429-433	14
1286	Conductive atomic force microscopy (C-AFM) analysis of photoactive layers in inert atmosphere. <b>2008</b> , 9, 149-154	25
1285	Synergistic effect of polymer and oligomer blends for solution-processable organic thin-film transistors. <b>2008</b> , 9, 952-958	12
1284	Polymer photovoltaic devices with highly transparent cathodes. <b>2008</b> , 9, 1132-1135	40
1283	Fluorene-based Triarylamine base analogues: Potential electroluminescent materials. <b>2008</b> , 9, 1076-1086	27
1282	Bilayer heterojunction solar cell based on naphthalene bis-benzimidazole. <b>2008</b> , 361, 595-600	30
1281	Enhanced Performance of Bulk Heterojunction Solar Cells Fabricated by Polymer:Fullerene:Carbon-Nanotube Composites. <b>2008</b> ,	1
1280	Detailed balance theory of excitonic and bulk heterojunction solar cells. <b>2008</b> , 78,	86
1279	Relationship between Film Morphology, Optical, and Conductive Properties of Poly(thienothiophene): [6,6]-Phenyl C-61-Butyric Acid Methyl Ester Bulk Heterojunctions. <b>2008</b> , 112, 15973-15979	16

1278	Improving performance of polymer photovoltaic devices using an annealing-free approach via construction of ordered aggregates in solution. <b>2008</b> , 18, 1984	223
1277	Quantum Dot Solar Cells. Semiconductor Nanocrystals as Light Harvesters <b>2008</b> , 112, 18737-18753	2168
1276	Two Polythiophene Derivatives Containing Phenothiazine Units: Synthesis and Photovoltaic Properties. <b>2008</b> , 112, 12058-12064	47
1275	Polymer solar cells based on very narrow-bandgap polyplatinynes with photocurrents extended into the near-infrared region. <b>2008</b> , 5484-94	49
1274	Organic solar cells: Structure, materials, critical characteristics, and outlook. <b>2008</b> , 3, 242-271	29
1273	Electronic structures of interfacial states formed at polymeric semiconductor heterojunctions. <b>2008</b> , 7, 483-9	175
1272	Conjugated polymers: what makes a chromophore?. <b>2008</b> , 7, 427-8	37
1271	Simulation of a Low-Voltage Organic Transistor Compatible With Printing Methods. <b>2008</b> , 55, 276-282	11
1270	Crystal structures and optical properties of novel fluorene-bithiophene and trithiophene-based diols. <b>2008</b> , 108, 425-430	3
1269	Synthesis and investigation of carbazoles and fluorenes containing tetrathiafulvalene core. <b>2008</b> , 10, 1710-1719	9
1268	Development of bioinspired artificial photosynthetic systems. <b>2008</b> , 10, 2283-97	406
1267	Role of semiconducting and metallic tubes in P3HT/carbon-nanotube photovoltaic heterojunctions: density functional theory calculations. <b>2008</b> , 8, 908-12	135
1266	Bulk Heterojunctions Based on Native Polythiophene. <b>2008</b> , 20, 4386-4390	106
1265	Liquid/Liquid interfacial polymerization to grow single crystalline nanoneedles of various conducting polymers. <b>2008</b> , 2, 502-6	129
1264	Highly flexible and transparent InZnSnOx/Ag/InZnSnOx multilayer electrode for flexible organic light emitting diodes. <b>2008</b> , 92, 223302	148
1263	Laser Micromachining of Barium Titanate $\text{BaTiO}_3$ -Epoxy Nanocomposite-Based Flexible/Rollable Capacitors: New Approach for Making Library of Capacitors. <b>2008</b> , 31, 97-103	13
1262	Photoinduced Charge Separation and Recombination in Acridine-Triarylamine-Based Redox Cascades. <b>2008</b> , 112, 1227-1243	23
1261	Electrochemical Synthesis and Photovoltaic Property of Cadmium Sulfide-Polybithiophene Interdigitated Nanohybrid Thin Films. <b>2008</b> , 112, 19765-19769	24

1260	Synthesis, characterization, and photovoltaic properties of a low band gap polymer based on silole-containing polythiophenes and 2,1,3-benzothiadiazole. <b>2008</b> , 130, 16144-5	1051
1259	Air-stable inverted flexible polymer solar cells using zinc oxide nanoparticles as an electron selective layer. <b>2008</b> , 92, 253301	737
1258	Simple tandem organic photovoltaic cells for improved energy conversion efficiency. <b>2008</b> , 92, 083310	59
1257	Plasmon enhanced performance of organic solar cells using electrodeposited Ag nanoparticles. <b>2008</b> , 93, 073307	380
1256	High performance ambient processed inverted polymer solar cells through interfacial modification with a fullerene self-assembled monolayer. <b>2008</b> , 93, 233304	271
1255	Triaryl amino and Tricyanovinyl End-Capped Oligothiophenes with Reduced Optical Gap for Photovoltaic Applications. <b>2008</b> , 112, 16714-16720	28
1254	Synthesis and Photovoltaic Properties of a Novel Low Band Gap Polymer Based on N-Substituted Dithieno[3,2-b:2',3'-d]pyrrole. <b>2008</b> , 41, 8302-8305	219
1253	Poly(thieno[3,4-b]furan), a New Low Band Gap Polymer: Experiment and Theory. <b>2008</b> , 41, 7098-7108	36
1252	Synthesis, characterization, and transistor response of semiconducting silole polymers with substantial hole mobility and air stability. Experiment and theory. <b>2008</b> , 130, 7670-85	326
1251	Heterocirculenes as a new class of organic semiconductors. <b>2008</b> , 5354-6	115
1250	Pyrrole-Based Organic Dyes for Dye-Sensitized Solar Cells. <b>2008</b> , 112, 12557-12567	110
1249	Synthesis and Molecular Recognition of Conjugated Polymer with DNA-Mimetic Properties. <b>2008</b> , 41, 5590-5603	36
1248	High-conductivity poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate) film for use in ITO-free polymer solar cells. <b>2008</b> , 18, 5948	139
1247	Regioregular Polythiophene Solar Cells: Material Properties and Performance. 1-55	
1246	Fullerene-Based Acceptor Materials. 153-178	
1245	Influence of electron-donating polymer addition on the performance of polymer solar cells. <b>2008</b> , 41, 225101	35
1244	Preparation of metal-SAM-endrimer-SAM-metal junctions by supramolecular metal transfer printing. <b>2008</b> , 32, 652	11
1243	Poly(2,7-carbazole)s and Related Polymers. <b>2008</b> , 99-124	56

1242	Control in Energy Levels of Conjugated Polymers for Photovoltaic Application □ <b>2008</b> , 112, 7866-7871	57
1241	Effects of conformational change and segmental aggregation on photoemission of illuminophores in conjugated polymer MEH-PPV: Blue shift versus red shift. <b>2008</b> , 158, 135-142	25
1240	Optical and electron-deficient properties of poly[2,7-(9,9-dihexylfluorene)-Co-Bi-pyridine]: A combined experimental and theoretical study. <b>2008</b> , 158, 194-199	3
1239	Charge transport and photocurrent generation in PPAT:ZnO bulk heterojunction photovoltaic devices. <b>2008</b> , 158, 400-410	26
1238	Effects of thermal annealing on polymer photovoltaic cells with buffer layers and in situ formation of interfacial layer for enhancing power conversion efficiency. <b>2008</b> , 158, 908-911	27
1237	Isomeric and Structural Impacts on Electron Acceptability of Carbon Cages in Atom-Bridged Fullerene Dimers. <b>2008</b> , 112, 741-746	4
1236	High-performance polymer heterojunction solar cells of a polysilafluorene derivative. <b>2008</b> , 92, 033307	420
1235	Optical Data Link Employing Organic Light-Emitting Diodes and Organic Photodiodes as Optoelectronic Components. <b>2008</b> , 26, 816-823	25
1234	Bioconjugate Techniques - Pages 1041-1132. <b>2008</b> , 1041-1132	
1233	Modulating the electronic properties of porphyrinoids: a voyage from the violet to the infrared regions of the electromagnetic spectrum. <b>2008</b> , 6, 1877-94	201
1232	Toward a rational design of poly(2,7-carbazole) derivatives for solar cells. <b>2008</b> , 130, 732-42	1269
1231	Electrodeposition of carbon nanotube semi-transparent thin films: A facile route for preparing photoactive polymeric hybrid materials. <b>2008</b> , 17, 1573-1576	6
1230	Modeling of nanoscale morphology of regioregular poly(3-hexylthiophene) on a ZnO (1010) surface. <b>2008</b> , 8, 4185-90	32
1229	Efficient Poly(3-hexylthiophene)-Based Bulk Heterojunction Solar Cells Fabricated by an Annealing-Free Approach. <b>2008</b> , 112, 17716-17720	68
1228	Hybrid bulk heterojunction solar cells fabricated by TiO <sub>2</sub> aerogel and porphyrins. <b>2008</b> ,	
1227	Ultrafast charge photogeneration dynamics in ground-state charge-transfer complexes based on conjugated polymers. <b>2008</b> , 112, 13730-7	55
1226	Organic thin-film transistors based on 2,6-bis(2-arylvinyl)anthracene: high-performance organic semiconductors. <b>2008</b> , 32, 2006	7
1225	Nanostructured polymer solar cells. <b>2008</b> ,	

1224	High-performance organic semiconductors for thin-film transistors based on 2,6-bis(2-thienylvinyl)anthracene. <b>2008</b> , 18, 2234	24
1223	Investigation of nanoscale morphological changes in organic photovoltaics during solvent vapor annealing. <b>2008</b> , 18, 306-312	269
1222	pi-Conjugated phosphole derivatives: synthesis, optoelectronic functions and coordination chemistry. <b>2008</b> , 6865-76	170
1221	Crystalline low band-gap alternating indolocarbazole and benzothiadiazole-cored oligothiophene copolymer for organic solar cell applications. <b>2008</b> , 5315-7	118
1220	Synthesis and characterization of ZnO nanorod arrays and their integration into polymer solar cells. <b>2008</b> ,	1
1219	Controllable crystalline structure of fullerene nanorods and transport properties of an individual nanorod. <b>2008</b> , 18, 328-332	76
1218	Synthesis and Characterization of C60 Dyads with Highly Photoactive Dicyanoethylenylated Diphenylaminofluorene Chromophore Antenna. <b>2008</b> , 45, 917-924	1
1217	High-performance organic semiconductors for thin-film transistors based on 2,7-divinyl[1]benzothieno[3,2-b]benzothiophene. <b>2008</b> , 18, 4698	26
1216	Organic semiconductors based on small molecules with thermally or photochemically removable groups. <b>2008</b> , 2957-74	103
1215	Tuning the optical properties of a water-soluble cationic poly(p-phenylenevinylene): surfactant complexation with a conjugated polyelectrolyte. <b>2008</b> , 112, 760-3	46
1214	Photoinduced electron transfer in thin layers composed of fullerene-cyclic peptide conjugate and pyrene derivative. <b>2008</b> , 24, 5608-14	11
1213	Molecular weight effects in the third-harmonic generation spectroscopy of thin films of the conjugated polymer MEH-PPV. <b>2008</b> , 112, 3605-10	11
1212	The role of intrachain and interchain interactions of regioregular poly(3-octylthiophene) chains on the optical properties of a new amphiphilic conjugated random copolymer in solution. <b>2008</b> , 24, 11103-10	16
1211	Direct observation and analysis of annealing-induced microstructure at interface and its effect on performance improvement of organic thin film transistors. <b>2008</b> , 112, 12270-8	24
1210	Characterization of transparent conducting oxide surfaces using self-assembled electroactive monolayers. <b>2008</b> , 24, 5755-65	30
1209	Correlation of Phase Behavior and Charge Transport in Conjugated Polymer/Fullerene Blends. <b>2008</b> , 112, 17726-17736	149
1208	Controlling layer thickness and photostability of water-soluble cationic poly(p-phenylenevinylene) in multilayer thin films by surfactant complexation. <b>2008</b> , 24, 13127-31	11
1207	Nanotransfer of the polythiophene molecular alignment onto the step-bunched vicinal Si(111) substrate. <b>2008</b> , 24, 11605-10	11

1206	Nonlinear optical transmission properties of C60 dyads consisting of a light-harvesting diphenylaminofluorene antenna. <b>2008</b> , 112, 9561-4	22
1205	Aggregation and Gelation Effects on the Performance of Poly(3-hexylthiophene)/Fullerene Solar Cells. <b>2008</b> , 41, 7485-7489	61
1204	Quantum-Chemical Approach to Electronic Coupling: Application to Charge Separation and Charge Recombination Pathways in a Model Molecular Donor-Acceptor System for Organic Solar Cells. <b>2008</b> , 112, 3429-3433	65
1203	Epitaxy-assisted creation of PCBM nanocrystals and its application in constructing optimized morphology for bulk-heterojunction polymer solar cells. <b>2008</b> , 112, 15651-8	30
1202	Nature of Charge Carriers in Long Doped Oligothiophenes: The Effect of Counterions. <b>2008</b> , 112, 8408-8418	50
1201	Synthesis, Characterization, and Photovoltaic Properties of Novel Semiconducting Polymers with Thiophene-Phenylene-Thiophene (TPT) as Coplanar Units. <b>2008</b> , 41, 5519-5526	119
1200	Charge separation in type II tunneling structures of close-packed CdTe and CdSe nanocrystals. <b>2008</b> , 8, 1482-5	78
1199	Novel Anthracene-Core Molecule for the Development of Efficient PCBM-Based Solar Cells. <b>2008</b> , 20, 32-34	99
1198	Size Effects of Oligothiophene on the Dynamics of Electron Transfer in $\pi$ -Conjugated Oligothiophene-Perylene Bisimide Dyads. <b>2008</b> , 112, 2689-2696	38
1197	Excitation Transport and Charge Separation in an Organic Photovoltaic Material: Watching Excitations Diffuse to Interfaces. <b>2008</b> , 112, 3926-3934	30
1196	Interplay of Vesicle and Lamellae Formation in an Amphiphilic Polyfluorene-b-polythiophene All-Conjugated Diblock Copolymer at the Air-Water Interface. <b>2008</b> , 41, 6169-6175	50
1195	Tubular aggregates of cyclic oligothiophenes. A theoretical study. <b>2008</b> , 112, 3996-4003	18
1194	Photoinduced Electron Transfer and Photocurrent in Multicomponent Organic Molecular Films Containing Oriented Porphyrin-Fullerene Dyad. <b>2008</b> , 112, 10256-10265	23
1193	Charge recombination in organic photovoltaic devices with high open-circuit voltages. <b>2008</b> , 130, 13653-8	196
1192	Measurement issues of organic solar cell. <b>2008</b> ,	3
1191	Photovoltaic Cells with TiO <sub>2</sub> Nanocrystals and Conjugated Polymer Composites. <b>2008</b> , 25, 3013-3016	5
1190	Single-Reference Methods for Excited States in Molecules and Polymers. <b>2008</b> , 15-64	7
1189	Organic photovoltaic cells made from phthalocyanine deckers. <b>2008</b> ,	

1188	Multilayer organic solar cells with wet-processed polymeric bulk heterojunction film and dry-processed small molecule films. <b>2008</b> , 92, 093306	13
1187	Supramolecules Based on Porphyrins. <b>2008</b> , 123-159	6
1186	Poly(arylene vinylene)s. <b>2008</b> , 89-137	1
1185	Low cost patterning of poly(3,4-ethylenedioxythiophene) poly(styrenesulfonate) films to increase organic photovoltaic device efficiency. <b>2008</b> , 93, 103301	32
1184	Halbleitende Polymere als Funktionswerkstoffe für gedruckte Optoelektronik [Neue Möglichkeiten und Besonderheiten (Semiconducting Polymers for Printed Opto Electronics) Opportunities and Special Features]. <b>2008</b> , 50, 149-157	
1183	Self-organization effect in poly(3-hexylthiophene): methanofullerenes solar cells. <b>2008</b> , 17, 3143-3148	15
1182	Sputtering of Aluminum Cathodes on OLEDs Using Linear Facing Target Sputtering with Ladder-Type Magnet Arrays. <b>2008</b> , 155, J187	21
1181	Ligand removal from soluble CdTe nanocrystals evidenced by time-resolved photoluminescence spectroscopy. <b>2008</b> , 41, 102004	16
1180	Optical and Morphological Characterization of PTCDI-C13. <b>2008</b> , 1091, 1	0
1179	Ga-Doped ZnO Film as a Transparent Electrode for Phthalocyanine/Perylene Heterojunction Solar Cell. <b>2008</b> , 47, 867-871	24
1178	Surface potential domains on lamellar P3OT structures. <b>2008</b> , 19, 065709	13
1177	Annealed Treatment Effect in Poly(3-hexylthiophene):Methanofullerene Solar Cells. <b>2008</b> , 25, 1411-1414	12
1176	Fabrication of Double Layered Hybrid Solar Cells Consisting of Low-Temperature Anatase Titanium Oxide and Conducting Polymer. <b>2008</b> , 47, 509-512	16
1175	Doped-Dye Orientation Relative to Oriented Polyfluorene Host Film. <b>2008</b> , 47, 416-419	10
1174	Photonics and molecular design of dye-doped polymers for modern light-sensitive materials. <b>2008</b> , 80, 1525-1538	42
1173	Fabrication of oriented ZnO nanopillar self-assemblies and their application for photovoltaic devices. <b>2008</b> , 19, 435706	25
1172	An effect of TiO <sub>2</sub> morphology on performance of ITO/TiO <sub>2</sub> /MEH-PPV/Au solar cells. <b>2008</b> ,	1
1171	Structural and electronic properties of pentacene-fullerene heterojunctions. <b>2008</b> , 104, 114518	89



1170	Efficient multilayer organic solar cells using the optical interference peak. <b>2008</b> , 93, 043307	43
1169	Effect of Ag interlayer on the optical and passivation properties of flexible and transparent Al <sub>2</sub> O <sub>3</sub> /Ag/Al <sub>2</sub> O <sub>3</sub> multilayer. <b>2008</b> , 93, 033301	27
1168	Realization, characterization, and optical modeling of inverted bulk-heterojunction organic solar cells. <b>2008</b> , 103, 084506	81
1167	Self-assembled monolayer modified ZnO/metal bilayer cathodes for polymer/fullerene bulk-heterojunction solar cells. <b>2008</b> , 92, 193313	153
1166	Improved transport and photostability of poly(methoxy-ethylexyloxy-phenylenevinylene) polymer thin films by boron doped freestanding silicon nanocrystals. <b>2008</b> , 92, 143301	14
1165	Measurement of deep states in hole doped organic semiconductors. <b>2008</b> , 103, 093711	17
1164	Mapping exciton quenching in photovoltaic-applicable polymer blends using time-resolved scanning near-field optical microscopy. <b>2008</b> , 103, 093715	14
1163	Enhanced bending stability of carbon-nanotube-reinforced indium tin oxide films on flexible plastic substrates. <b>2008</b> , 93, 013114	19
1162	Organic photovoltaic cells made from sandwich-type rare earth phthalocyaninato double and triple deckers. <b>2008</b> , 93, 073303	25
1161	An effect of TiO <sub>2</sub> morphology on performance of ITO/TiO <sub>2</sub> /MEH-PPV/Au solar cells. <b>2008</b> ,	
1160	Bulk Heterojunction Organic Photovoltaic Cell Fabricated with a p-Type Conjugated Star-shaped Molecule. <b>2008</b> , 37, 866-867	13
1159	Doping poly[2-methoxy-5-(2'-ethylhexyloxy)-1,4-phenylenevinylene] with PbSe nanoparticles or fullerenes. <b>2008</b> , 20, 382202	2
1158	Influence of titania thin film morphology on the photovoltaic action of hybrid titania-P3HT solar cell. <b>2008</b> , 100, 082020	
1157	Investigation on copper phthalocyanine/multiwalled carbon nanotube interface. <b>2008</b> , 104, 033701	14
1156	Light-controlled selective metal deposition on photopolymer films. <b>2009</b> , 94, 013302	16
1155	Imbalanced charge mobility in oxygen treated polythiophene/fullerene based bulk heterojunction solar cells. <b>2009</b> , 95, 263305	47
1154	Enhancing the photocurrent in poly(3-hexylthiophene)/[6,6]-phenyl C61 butyric acid methyl ester bulk heterojunction solar cells by using poly(3-hexylthiophene) as a buffer layer. <b>2009</b> , 95, 133303	48
1153	Efficient organic photovoltaic tandem cells with poly (3-hexylthiophene): Fullerene active layers and transparent conductive oxide interlayer. <b>2009</b> ,	

1152	Effects of semiconducting and metallic single-walled carbon nanotubes on performance of bulk heterojunction organic solar cells. <b>2009</b> , 94, 233309	46
1151	Application of the AMPS computer program to organic bulk heterojunction solar cells. <b>2009</b> ,	2
1150	Interfacial electronic structures of C60 molecules on a K-doped CuPc surface. <b>2009</b> , 94, 203303	7
1149	Accurate measurement of performance of polymer solar cell with highly conductive PEDOT:PSS. <b>2009</b> ,	2
1148	Coaxial nanocables of codoped double-walled carbon nanotubes. <b>2009</b> , 131, 214701	3
1147	Electron spin resonance and electron nuclear double resonance of photogenerated polarons in polyfluorene and its fullerene composite. <b>2009</b> , 79,	34
1146	Phase-dependent electronic properties of monolayer and multilayer anthracene films on graphite [0001] surfaces. <b>2009</b> , 79,	28
1145	44.1: Introducing a Two Stage Fully Organic AMOLED Display; from Design to Fabrication. <b>2009</b> , 40, 653	
1144	All-solution based device engineering of multilayer polymeric photodiodes: Minimizing dark current. <b>2009</b> , 94, 173303	60
1143	Importance of optical confinement in organic thin film solar cells. <b>2009</b> ,	
1142	Thermal annealing induced bicontinuous networks in bulk heterojunction solar cells and bipolar field-effect transistors. <b>2009</b> , 95, 173301	6
1141	Improving optical performance of inverted organic solar cells by microcavity effect. <b>2009</b> , 95, 193301	47
1140	Origins of performance in fiber-based organic photovoltaics. <b>2009</b> , 95, 203503	22
1139	Efficient poly(3-hexylthiophene)-fullerene derivative bulk heterojunction photovoltaic devices using unique self-assembled layer of Ag nanoparticles with controllable particle-to-particle spacing. <b>2009</b> ,	
1138	Organic solar cells with a blend of two solution processable electron acceptors, C60(CN) <sub>2</sub> and PCBM. <b>2009</b> ,	1
1137	Interfacial properties of the K-doped C60: CuPc heterojunctions. <b>2009</b> ,	
1136	Endohedral Fullerenes. <b>2009</b> ,	1
1135	Influence of optical interference and carrier lifetime on the short circuit current density of organic bulk heterojunction solar cells. <b>2009</b> , 18, 349-356	11

1134	Effects of optical interference and annealing on the performance of poly (3-hexylthiophene): fullerene based solar cells. <b>2009</b> , 18, 2096-2100	11
1133	Translucent Polymer Solar Cells. <b>2009</b> , 18, 869-874	
1132	Photophysical properties of composite film of dendron-appended porphyrin and fullerene[60]. <b>2009</b> , 13, 769-773	4
1131	Effect of Annealing Treatment and Surface Morphology on Power Conversion in Organic Photovoltaics. <b>2009</b> , 48, 081505	8
1130	Computational and experimental studies of phase separation in pentacene:C60 mixtures. <b>2009</b> , 27, 169	19
1129	Quantitative nanoscale monitoring the effect of annealing process on the morphology and optical properties of poly(3-hexylthiophene)/[6,6]-phenyl C61-butyric acid methyl ester thin film used in photovoltaic devices. <b>2009</b> , 106, 034506	37
1128	Nanosecond response of organic solar cells and photodetectors. <b>2009</b> , 105, 104513	46
1127	Fabrication of a polyaniline/CdSe nanocomposite film light-emitting device by the chemical route. <b>2009</b> , 223, 1-8	
1126	Ultrasensitive solution processed polymer photodetectors. <b>2009</b> ,	
1125	Optimization of the photochromic response of photoaddressable polymers with azobenzene-containing molecular glasses. <b>2009</b> ,	
1124	Origin of the low-energy emission band in epitaxially grown para-sexiphenyl nanocrystallites. <b>2009</b> , 130, 084901	3
1123	Characteristics of Flexible ITO Electrodes Grown by Continuous Facing Target Roll-to-Roll Sputtering for Flexible Organic Solar Cells. <b>2009</b> , 12, H169	25
1122	High Efficiency Flexible Polymer Solar Cells Based on PET Substrates with a Nonannealing Active Layer. <b>2009</b> , 156, B1188	15
1121	Synthesis of star-shaped pyrrole and thiophene functionalized monomers and optoelectrochemical properties of corresponding copolymers. <b>2009</b> , 114, 789-794	39
1120	TiO <sub>2</sub> :polymer bulk-heterojunction thin films made from a miscible new carbazole based TiO <sub>2</sub> precursor with poly(N-vinylcarbazole) for enhanced charge transfer properties. <b>2009</b> , 115, 429-433	7
1119	Quantum-Chemical Characterization of the Origin of Dipole Formation at Molecular Organic/Organic Interfaces. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 624-633	15.6 59
1118	Polymer Photovoltaic Cells Based on Solution-Processable Graphene and P3HT. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 894-904	15.6 437
1117	Recombination-Limited Photocurrents in Low Bandgap Polymer/Fullerene Solar Cells. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 1106-1111	15.6 314

1116	A New Look to Ring in the New Year. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 13-13	15.6	1
1115	Electron Trapping in Higher Adduct Fullerene-Based Solar Cells. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 3002-3007	15.6	229
1114	Intramolecular Donor-Acceptor Regioregular Poly(hexylphenanthrenyl-imidazole thiophene) Exhibits Enhanced Hole Mobility for Heterojunction Solar Cell Applications. <b>2009</b> , 21, 2093-2097		88
1113	Interface Engineering of Inorganic Thin-Film Solar Cells [Materials-Science Challenges for Advanced Physical Concepts. <b>2009</b> , 21, 4196-4206		105
1112	Device Performance of APFO-3/PCBM Solar Cells with Controlled Morphology. <b>2009</b> , 21, 4398-403		51
1111	Light-driven charge separation in isoxazolidine-perylene bisimide dyads. <b>2009</b> , 15, 12733-44		17
1110	Pentacene-based polycyclic aromatic hydrocarbon dyads with cofacial solid-state pi-stacking. <b>2009</b> , 15, 12580-4		36
1109	Triplet excitation scavenging in films of conjugated polymers. <b>2009</b> , 10, 1071-6		42
1108	Electric field assisted effects on molecular orientation and surface morphology of thin titanyl(IV)phthalocyanine films. <b>2009</b> , 10, 1874-81		13
1107	Relaxation of photogenerated carriers in P3HT:PCBM organic blends. <b>2009</b> , 2, 314-20		24
1106	On the Effect of Coordination and Protonation Preferences in the Amphiphilic Behavior of Metallosurfactants with Asymmetric Headgroups. <b>2009</b> , 2009, 345-356		24
1105	Excited state properties, fluorescence energies, and lifetimes of a poly(fluorene-phenylene), based on TD-DFT investigation. <b>2010</b> , 31, 1450-7		8
1104	Full-Color Processible Electrochromic Polymers Based on 4,4-Dioctyl-Cyclopentadithiophene. <b>2009</b> , 210, 1851-1855		18
1103	Organic/Organic' heterojunctions: organic light emitting diodes and organic photovoltaic devices. <b>2009</b> , 30, 717-31		170
1102	Synthesis of a fluorescent polymer bearing covalently linked thienylene moieties and rhodamine for efficient sensing. <b>2009</b> , 30, 1339-44		32
1101	Templated organic and hybrid materials for optoelectronic applications. <b>2009</b> , 30, 1146-66		81
1100	Synthesis of Dendritic Oligo-Spiro(fluorene-9,9'-xanthene) Derivatives with Carbazole and Fluorene Pendants and their Thermal, Optical, and Electroluminescent Properties. <b>2009</b> , 30, 1745-50		23
1099	Herausragende Kurzschlussströme in BHJ-Solarzellen auf Basis NIR-absorbierender, akzeptorsubstituierter Squaraine. <b>2009</b> , 121, 8934-8937		34

1098	Optical Fiber/Nanowire Hybrid Structures for Efficient Three-Dimensional Dye-Sensitized Solar Cells. <b>2009</b> , 121, 9143-9147	53
1097	Outstanding short-circuit currents in BHJ solar cells based on NIR-absorbing acceptor-substituted squaraines. <b>2009</b> , 48, 8776-9	214
1096	Optical fiber/nanowire hybrid structures for efficient three-dimensional dye-sensitized solar cells. <b>2009</b> , 48, 8981-5	207
1095	Solvent vapor-induced self assembly and its influence on optoelectronic conversion of poly(3-hexylthiophene): Methanofullerene bulk heterojunction photovoltaic cells. <b>2009</b> , 111, 1799-1804	35
1094	Synthesis and characterization of a new conducting polymer based on 4-(2,5-di-2-thiophen-2-yl-pyrrol-1-yl)-phthalonitrile. <b>2009</b> , 114, 2685-2690	17
1093	Modification of conductivity of P3HT by addition of endometallo fullerene. <b>2009</b> , 114, 491-495	6
1092	Alternating phenylenevinylene copolymers with dithienbenzothiadiazole moieties: Synthesis, photophysical, and photovoltaic properties. <b>2009</b> , 114, 2740-2750	1
1091	Electron Spin Resonance of Charge Carriers in Organic Field-Effect Devices. <b>2009</b> , 36, 357-370	10
1090	Synthesis and photovoltaic properties of a star-shaped molecule with triphenylamine as core and benzo[1,2,5]thiadiazol vinylene as arms. <b>2009</b> , 93, 108-113	85
1089	Fabrication and processing of polymer solar cells: A review of printing and coating techniques. <b>2009</b> , 93, 394-412	2589
1088	Characteristics of flexible indium tin oxide electrode grown by continuous roll-to-roll sputtering process for flexible organic solar cells. <b>2009</b> , 93, 1248-1255	125
1087	Fabrication of organic photovoltaic cells with double-layer ZnO structure. <b>2009</b> , 93, 1562-1567	19
1086	Poly(thiophenes) derivatized with oligo(oxyethylene) chains as donor materials for organic solar cells. <b>2009</b> , 93, 1624-1629	10
1085	Electrical, optical, and structural properties of ITO co-sputtered IZO films by dual target magnetron sputtering. <b>2009</b> , 23, 361-366	4
1084	Electrical and optical properties of fluorine-doped tin oxide (SnO <sub>x</sub> :F) thin films deposited on PET by using ECR-MOCVD. <b>2009</b> , 23, 506-511	22
1083	Fabrication and characterization of electrospun titania nanofibers. <b>2009</b> , 44, 1198-1205	75
1082	Electrochromic Solid-State Devices Using Organic-Metallic Hybrid Polymers. <b>2009</b> , 19, 74-78	48
1081	Electronic structure analysis and vertical ionization energies of thiophene and ethynylthiophenes. <b>2009</b> , 121, 867-872	6

1080	The effect of annealing treatment on the performance of bulk heterojunction solar cells with donor and acceptor different weight ratios. <b>2009</b> , 52, 1606-1610	5
1079	Effect of ZnCdTe-Alloyed Nanocrystals on Polymer-Fullerene Bulk Heterojunction Solar Cells. <b>2009</b> , 4, 674-9	5
1078	Enhancement of power conversion efficiency of photovoltaic cell fabricated with 1,2,4,5-tetra(6-hexyl-2-vinyl-dithieno [3,2-b;2',3'-d]thiophene)-benzene and methanofullerene [6,6]-phenyl C61-butyric acid methyl ester. <b>2009</b> , 17, 549-552	6
1077	Nanoelectrodes: energy conversion and storage. <b>2009</b> , 12, 20-27	55
1076	Silicon/organic semiconductor heterojunctions for solar cells. <b>2009</b> , 206, 2775-2781	25
1075	Ex-ante environmental and economic evaluation of polymer photovoltaics. <b>2009</b> , 17, 372-393	122
1074	Radical anions containing the dioxidated 1,2,5-thiadiazole heterocycle. <b>2009</b> , 22, 964-970	13
1073	Field-effect transistors based on PPV derivatives as a semiconducting layer. <b>2009</b> , 47, 111-120	26
1072	Synthesis and properties of monodisperse multi-triarylamine-substituted oligothiophenes and 4,7-bis(2'-oligothienyl)-2,1,3-benzothiadiazoles for organic solar cell applications. <b>2009</b> , 47, 137-148	27
1071	Synthesis and photovoltaic properties of poly(p-phenylenevinylene) derivatives containing oxadiazole. <b>2009</b> , 47, 1003-1012	26
1070	Copolyfluorenes containing phenothiazine or thiophene derivatives: Synthesis, characterization, and application in white-light-emitting diodes. <b>2009</b> , 47, 833-844	20
1069	Soluble narrow-band-gap copolymers containing novel cyclopentadithiophene units for organic photovoltaic cell applications. <b>2009</b> , 47, 2073-2092	48
1068	Synthesis, photophysics, and electroluminescent performance of stable blue-light-emitting copoly(9,9-diarylfluorene)s. <b>2009</b> , 47, 2821-2834	26
1067	Polymerization of branched thiophene monomers and optoelectronic properties of materials. <b>2009</b> , 47, 3034-3044	9
1066	Synthesis and characterization of new low bandgap polyfluorene copolymers for bulk heterojunction solar cells. <b>2009</b> , 47, 5336-5343	18
1065	Supramolecular assembly of H-bonded side-chain polymers containing conjugated pyridyl H-acceptor pendants and various low-band-gap H-donor dyes bearing cyanoacrylic acid groups for organic solar cell applications. <b>2009</b> , 47, 5998-6013	15
1064	Investigation of optical spacer layers from solution based precursors for polymer solar cells using X-ray reflectometry. <b>2009</b> , 31, 1007-1012	25
1063	Improvement of the efficiency of CuPc/C60-based photovoltaic cells using a multisteped structure. <b>2009</b> , 10, 724-728	31

1062	Efficient tandem polymer photovoltaic cells with two subcells in parallel connection. <b>2009</b> , 10, 1174-1177	28
1061	New approach for forming bulk-heterojunction solar cells comprising a $\pi$ -conjugated polymer and C60. <b>2009</b> , 10, 1223-1227	18
1060	Charge transport in oligo phenylene and phenylene-thiophene nanofibers. <b>2009</b> , 10, 1228-1234	27
1059	Effects of fullerene solubility on the crystallization of poly(3-hexylthiophene) and performance of photovoltaic devices. <b>2009</b> , 10, 1334-1344	49
1058	A theoretical study on photoexcitations in poly(p-phenylene vinylene). <b>2009</b> , 10, 1601-1605	15
1057	A theoretical and experimental investigation of vibrational spectra and electronic transitions on 3-methyldiphenylamine molecule as organic semiconductor. <b>2009</b> , 34, 5234-5241	1
1056	Characteristics of ITO electrode grown by linear facing target sputtering with ladder type magnetic arrangement for organic light emitting diodes. <b>2009</b> , 517, 4043-4046	6
1055	Controlled phase separation for efficient energy conversion in dye/polymer blend bulk heterojunction photovoltaic cells. <b>2009</b> , 517, 4654-4657	33
1054	Surface potentials of magnetron sputtered transparent conducting oxides. <b>2009</b> , 518, 1197-1203	125
1053	Study on the bulk junction type organic solar cells with double zinc oxide layer. <b>2009</b> , 518, 786-790	2
1052	Ionic liquid as electrolyte in a self-powered controlled release system. <b>2009</b> , 141, 452-457	7
1051	Study of the effect of annealing process on the performance of P3HT/PCBM photovoltaic devices using scanning-probe microscopy. <b>2009</b> , 93, 888-892	96
1050	Effect of solvent on fabrication of active layers in organic solar cells based on poly(3-hexylthiophene) and fullerene derivatives. <b>2009</b> , 93, 514-518	86
1049	Improvement of polymer/fullerene solar cells by controlling geometry of the ITO substrate surface. <b>2009</b> , 93, 976-979	8
1048	A complete process for production of flexible large area polymer solar cells entirely using screen printing—first public demonstration. <b>2009</b> , 93, 422-441	690
1047	Thermo-cleavable solvents for printing conjugated polymers: Application in polymer solar cells. <b>2009</b> , 93, 413-421	40
1046	Thermal-induced changes on the properties of spin-coated P3HT:C60 thin films for solar cell applications. <b>2009</b> , 93, 1674-1680	65
1045	Low resistance and highly transparent ITO/Ag/ITO multilayer electrode using surface plasmon resonance of Ag layer for bulk-heterojunction organic solar cells. <b>2009</b> , 93, 1801-1809	186

1044	Electrical bistability of CdS nanoparticles sandwiched between aluminum tris (8-hydroxyquinoline) layers. <b>2009</b> , 149, 107-110	7
1043	Dry and wet sliding wear of ITO-coated PET components used in flexible optoelectronic applications. <b>2009</b> , 267, 625-631	58
1042	Enhanced performance of organic electroluminescence diodes with a 2-TNATA:C60 hole injection layer. <b>2009</b> , 15, 752-757	7
1041	High efficiency polymer solar cells with wet deposited plasmonic gold nanodots. <b>2009</b> , 10, 416-420	188
1040	Efficient organic solar cells with polyfluorene derivatives as a cathode interfacial layer. <b>2009</b> , 10, 496-500	109
1039	Photoinduced processes of newly synthesized bisferrocene- and bisfullerene-substituted tetrads with a triphenylamine central block. <b>2009</b> , 694, 1818-1825	10
1038	Harvesting solar energy using conjugated metallopolyne donors containing electron-rich phenothiazine- $\beta$ -ligothiophene moieties. <b>2009</b> , 694, 2717-2726	50
1037	Challenges in organometallic research [Great opportunity for solar cells and OLEDs. <b>2009</b> , 694, 2644-2647	38
1036	Photoelectrochemical oxidative polymerization of aniline and its application to transparent TiO <sub>2</sub> solar cells. <b>2009</b> , 204, 110-114	8
1035	Arylene-ethynylene/arylene-vinylene copolymers: Synthesis and structure-property relationships. <b>2009</b> , 34, 1023-1067	62
1034	Hybrid polymer solar cells: From the role colloid science could play in bringing deployment closer to a study of factors affecting the stability of non-aqueous ZnO dispersions. <b>2009</b> , 343, 50-56	17
1033	Theoretical investigations of the charge transfer characteristics in dichlorotitanium phthalocyanine (TiCl <sub>2</sub> Pc) and tin phthalocyanine (SnPc). <b>2009</b> , 483, 143-146	24
1032	Excitons in organic semiconductors. <b>2009</b> , 10, 504-513	7
1031	Nano-layer growth of new anthracene polymer film through redox-induced polymerization. <b>2009</b> , 9, S104-S106	1
1030	Morphology and properties of poly(2-methoxy-5-(2-ethyl-hexyloxy)-p-phenylenevinylene) (MEH-PPV): N,N-bis(1-ethylpropyl)-3,4:9,10-perylene bis(tetracarboxyl diimide) (EP-PTC) based solar cells. <b>2009</b> , 9, 950-955	6
1029	Development of new semiconducting polymers for high performance solar cells. <b>2009</b> , 131, 56-7	853
1028	Low-band-gap platinum acetylide polymers as active materials for organic solar cells. <b>2009</b> , 1, 150-61	126
1027	Self-assembled pi-stacks of functional dyes in solution: structural and thermodynamic features. <b>2009</b> , 38, 564-84	804



1026	Development of novel conjugated donor polymers for high-efficiency bulk-heterojunction photovoltaic devices. <b>2009</b> , 42, 1709-18	1292
1025	Regioregular Oligomer and Polymer Containing Thieno[3,4-b]thiophene Moiety for Efficient Organic Solar Cells. <b>2009</b> , 42, 1091-1098	63
1024	Effect of temperature on the performance of CuPc/C60 photovoltaic device. <b>2009</b> , 42, 015102	17
1023	Effect of interface thickness on power conversion efficiency of polymer photovoltaic cells. <b>2009</b> , 5, 47-50	41
1022	Synthesis of conjugated polymers for organic solar cell applications. <b>2009</b> , 109, 5868-923	3432
1021	Plasmonic-enhanced polymer photovoltaic devices incorporating solution-processable metal nanoparticles. <b>2009</b> , 95, 013305	250
1020	Organic nanomaterials: morphological control for charge stabilization and charge transport. <b>2009</b> , 4, 806-23	21
1019	Organic tandem solar cells: A review. <b>2009</b> , 2, 347	634
1018	A roll-to-roll process to flexible polymer solar cells: model studies, manufacture and operational stability studies. <b>2009</b> , 19, 5442	1098
1017	Novel NIR-absorbing conjugated polymers for efficient polymer solar cells: effect of alkyl chain length on device performance. <b>2009</b> , 19, 2199	181
1016	New diarylmethanofullerene derivatives and their properties for organic thin-film solar cells. <b>2009</b> , 5, 7	15
1015	Properties of heterojunction based on pentacene and perylene derivatives. <b>2009</b> , 43, 192-196	5
1014	Synthesis, crystal structure, and physical properties of 7,14-disubstituted pentacene-5,12-diones containing a methylenequinoid structure. <b>2009</b> , 11, 1813-6	15
1013	An Easy and Effective Method To Modulate Molecular Energy Level of Poly(3-alkylthiophene) for High-Voc Polymer Solar Cells. <b>2009</b> , 42, 9217-9219	90
1012	Liquid-crystalline semiconducting copolymers with intramolecular donor-acceptor building blocks for high-stability polymer transistors. <b>2009</b> , 131, 6124-32	212
1011	Electrical Properties and Conductivity Mapping of Thin Multilayered Films Containing Different Types of Carbon Nanotubes. <b>2009</b> , 113, 13070-13076	19
1010	Relative Photon-to-Carrier Efficiencies of Alternating Nanolayers of Zinc Phthalocyanine and C60 Films Assessed by Time-Resolved Terahertz Spectroscopy. <b>2009</b> , 113, 18842-18850	18
1009	Solubilization of [60]Fullerene Owing to Inclusion Complex Formation between Syndiotactic Poly(methyl methacrylate) and the Fullerenes in Polar Solvents. <b>2009</b> , 42, 6136-6140	28

1008	Polymer Solar Cells Based on Alternating and Statistical 4,7-Bis(4-octylphenyl-2-thienyl)-2,1,3-benzothiadiazole Copolymers. <b>2009</b> , 113, 8505-8512	12
1007	Ordering fullerenes at the nanometer scale on solid surfaces. <b>2009</b> , 109, 2081-91	105
1006	Structure-Dependent Photophysics of First-Generation Phenyl-Cored Thiophene Dendrimers. <b>2009</b> , 21, 287-297	26
1005	Poly[4,4-bis(2-ethylhexyl)cyclopenta[2,1-b;3,4-b?]dithiophene-2,6-diyl-alt-2,1,3-benzoselenadiazole-4,7-diyl], a New Low Band Gap Polymer in Polymer Solar Cells. <b>2009</b> , 113, 1601-1605	97
1004	A [3,2-b]thienothiophene-alt-benzothiadiazole copolymer for photovoltaic applications: design, synthesis, material characterization and device performances. <b>2009</b> , 19, 4946	55
1003	Photocurrent Spectra and Fast Kinetic Studies of P3HT/PCBM Mixed with a Dye for Photoconversion in the Near-IR Region. <b>2009</b> , 113, 3014-3020	36
1002	Effect of Surface Treatment on the Efficiency of Bulk Hetero-Junction Solar Cells Prepared on Low-Temperature Processed Titanium Dioxide Film. <b>2009</b> , 504, 104-113	10
1001	Detailed analysis of bathocuproine layer for organic solar cells based on copper phthalocyanine and C60. <b>2009</b> , 105, 073105	45
1000	Efficient electron delocalization mediated by aromatic homoconjugation in 7,7-diphenylnorbornane derivatives. <b>2009</b> , 74, 7148-56	23
999	Synthesis and Photovoltaic Properties of Two Benzo[1,2-b:3,4-b?]dithiophene-Based Conjugated Polymers. <b>2009</b> , 113, 21202-21207	78
998	Tunable Novel Cyclopentadithiophene-Based Copolymers Containing Various Numbers of Bithiazole and Thienyl Units for Organic Photovoltaic Cell Applications. <b>2009</b> , 42, 3681-3693	98
997	Molecular design, device function and surface potential of zwitterionic electron injection layers. <b>2009</b> , 131, 8903-12	39
996	Energy and Electron Transfer in Multilayer Films Containing Porphyrin Fullerene Dyad. <b>2009</b> , 113, 3819-3825	24
995	Batch-fabricated flexible carbon nanotubes' photosensor array. <b>2009</b> , 20, 465502	7
994	Effect of Poly (3-hexylthiophene) Nanofibrils on Charge Separation and Transport in Polymer Bulk Heterojunction Photovoltaic Cells. <b>2009</b> , 113, 17235-17239	75
993	Indolo[3,2-b]carbazole-based alternating donor-acceptor copolymers: synthesis, properties and photovoltaic application. <b>2009</b> , 19, 7730	90
992	Controlling electron transfer through the manipulation of structure and ligand-based torsional motions: a computational exploration of ruthenium donor-acceptor systems using density functional theory. <b>2009</b> , 48, 11161-75	31
991	A High-Mobility Low-Bandgap Poly(2,7-carbazole) Derivative for Photovoltaic Applications. <b>2009</b> , 42, 2891-2894	223

990	Self-association and electron transfer in donor-acceptor dyads connected by meta-substituted oligomers. <b>2009</b> , 131, 12218-29	53
989	Effect of Metal-Reflection and Surface-Roughness Properties on Power-Conversion Efficiency for Polymer Photovoltaic Cells. <b>2009</b> , 113, 21915-21920	40
988	Detailed single-molecule spectroelectrochemical studies of the oxidation of conjugated polymers. <b>2009</b> , 113, 14619-28	22
987	Donor-Acceptor Molecule as the Acceptor for Polymer-Based Bulk Heterojunction Solar Cells. <b>2009</b> , 113, 7882-7886	43
986	Photo-induced and resist-free imprint patterning of fullerene materials for use in functional electronics. <b>2009</b> , 131, 4006-11	60
985	Photocurrent mechanism and photovoltaic properties of photo-electrochemical device based on PPAT and PPAT:TY blend. <b>2009</b> , 159, 52-61	8
984	Semiconducting polymers based on electron-donating bithiophene and electron-accepting 5,5'-bithiazole units for organic thin-film transistors. <b>2009</b> , 159, 132-136	15
983	Photovoltaic devices fabricated with a p-type conjugated multi-branched molecules. <b>2009</b> , 159, 396-400	6
982	Synthesis and preliminary characterization of novel naphthalene bisimide based copolymers. <b>2009</b> , 159, 467-472	22
981	Photogeneration and photovoltaic effect in poly(N-vinylcarbazole):TiO <sub>2</sub> bulk-heterojunction elaborated by hydrolysis-condensation reactions of TiO <sub>2</sub> precursors. <b>2009</b> , 159, 508-512	11
980	Self-assembled monolayer effect on the characteristics of organic diodes. <b>2009</b> , 159, 551-555	11
979	Two-photon excited states in charge-transfer type conjugated polymers. <b>2009</b> , 159, 868-870	9
978	Space charge limited current-voltage characteristics of organic semiconductor diode fabricated at various gravity conditions. <b>2009</b> , 159, 1336-1339	13
977	Electrochemical and photoelectrochemical study of gallium arsenide-polybithiophene composite. <b>2009</b> , 159, 1349-1352	12
976	A flexible textile structure based on polymeric photovoltaics using transparent cathode. <b>2009</b> , 159, 2043-2048	75
975	Vibrational properties of two fullerene-bithiophene-based dyads. <b>2009</b> , 159, 2539-2543	12
974	Terthiophene-cyanovinylene E-conjugated polymers as donor material for organic solar cells. <b>2009</b> , 159, 2534-2538	12
973	Confocal and near-field spectroscopic investigation of P3HT:PCBM organic blend film upon thermal annealing. <b>2009</b> ,	

972	Microcavity organic laser device under electrical pumping. <b>2009</b> , 34, 503-5	33
971	Synthesis, photophysical, and device properties of novel dendrimers based on a fluorene-hexabenzocoronene (FHBC) core. <b>2009</b> , 11, 975-8	43
970	Photovoltaic characteristics of polymer solar cells fabricated by pre-metered coating process. <b>2009</b> , 17, 13830-40	31
969	Conjugated polymer-fullerene blend with strong optical limiting in the near-infrared. <b>2009</b> , 17, 22062-72	25
968	Donor-Acceptor Nanoarchitecture on Semiconducting Electrodes for Solar Energy Conversion. <b>2009</b> , 113, 9029-9039	96
967	Synthesis and characterization of 9,10-bis(2-phenyl-1,3,4-oxadiazole) derivatives of anthracene: Efficient n-type emitter for organic light-emitting diodes. <b>2009</b> , 19, 6172	47
966	Efficient semitransparent inverted organic solar cells with indium tin oxide top electrode. <b>2009</b> , 94, 243302	186
965	Molecular design for improved photovoltaic efficiency: band gap and absorption coefficient engineering. <b>2009</b> , 19, 7195	67
964	Novel Functionalized Conjugated Polythiophene with Oxetane Substituents: Synthesis, Optical, Electrochemical, and Field-Effect Properties. <b>2009</b> , 42, 3222-3226	43
963	Comparative photoactivity and antibacterial properties of C60 fullerenes and titanium dioxide nanoparticles. <b>2009</b> , 43, 4355-60	373
962	A Simple and Effective Way of Achieving Highly Efficient and Thermally Stable Bulk-Heterojunction Polymer Solar Cells Using Amorphous Fullerene Derivatives as Electron Acceptor. <b>2009</b> , 21, 2598-2600	185
961	Organic Thin-Film Solar Cells Using Electron-Donating Perylene Tetracarboxylic Acid Derivatives. <b>2009</b> , 113, 15454-15466	34
960	A model for the J-V characteristics of P3HT:PCBM solar cells. <b>2009</b> , 105, 104507	66
959	Room temperature flexible and transparent ITO/Ag/ITO electrode grown on flexible PES substrate by continuous roll-to-roll sputtering for flexible organic photovoltaics. <b>2009</b> , 42, 235109	80
958	Fullerenes. 205-333	
957	Dibenzo[f,h]thieno[3,4-b] quinoxaline-based small molecules for efficient bulk-heterojunction solar cells. <b>2009</b> , 11, 4898-901	48
956	Water-induced degradation of polymer solar cells studied by H <sub>2</sub> ( <sup>18</sup> O) labeling. <b>2009</b> , 1, 102-12	251
955	Adsorption and desorption kinetics of anionic dyes on doped polyaniline. <b>2009</b> , 113, 2293-9	159

954	Electrochemical, Spectroelectrochemical, and Comparative Studies of Novel Organic Conjugated Monomers and Polymers Featuring the Redox-Active Unit Tetrathianaphthalene. <b>2009</b> , 42, 2570-2580	13
953	Geometry, electronic structure and thermodynamic stability of intrinsic point defects in indium oxide. <b>2009</b> , 21, 455801	65
952	Formation entropies of intrinsic point defects in cubic In <sub>2</sub> O <sub>3</sub> from first-principles density functional theory calculations. <b>2009</b> , 11, 3226-32	37
951	Controlled aniline polymerization strategies for polyaniline micro- and nano self-assembling into practical electronic devices. <b>2009</b> , 25, 1851-4	32
950	Improving photovoltaic properties by incorporating both single walled carbon nanotubes and functionalized multiwalled carbon nanotubes. <b>2009</b> , 94, 093509	51
949	Photovoltaics Based on Thiophene Polymers: A Short Overview. 673-693	2
948	Electrogenerated Low Band Gap Polymers Based on the 3-Cyano-4-methoxythiophene Building Block. <b>2009</b> , 42, 5593-5599	24
947	BODIPY derivatives as donor materials for bulk heterojunction solar cells. <b>2009</b> , 1673-5	302
946	Self-assembly of semiconductor organogelator nanowires for photoinduced charge separation. <b>2009</b> , 3, 1107-14	123
945	Synthesis, structural characterization, and unusual field-effect behavior of organic transistor semiconductor oligomers: inferiority of oxadiazole compared with other electron-withdrawing subunits. <b>2009</b> , 131, 1692-705	74
944	Large carrier mobilities in octathio[8]circulene crystals: a theoretical study. <b>2009</b> , 19, 4356	48
943	Molecular bulk heterojunctions: an emerging approach to organic solar cells. <b>2009</b> , 42, 1719-30	632
942	Novel p-phenylenevinylene compounds containing thiophene or anthracene moieties and cyano-vinylene bonds for photovoltaic applications. <b>2009</b> , 1, 1711-8	35
941	Flexible Polymer Photovoltaic Devices Prepared With Inverted Structures on Metal Foils. <b>2009</b> , 30, 727-729	30
940	New indolo[3,2-b]carbazole derivatives for field-effect transistor applications. <b>2009</b> , 19, 2921	77
939	Influence of Phenyl Perfluorination on Charge Transport Properties of Distyryl-Oligothiophenes in Organic Field-Effect Transistors. <b>2009</b> , 113, 1567-1574	22
938	Multi-donor molecular bulk heterojunction solar cells: improving conversion efficiency by synergistic dye combinations. <b>2009</b> , 19, 2298	135
937	Synthesis, photophysical and electrochemical characterization of phthalocyanine-based poly(p-phenylenevinylene) oligomers. <b>2009</b> , 3955-63	18

936	The relationship between morphology and performance of donor-acceptor rod-coil block copolymer solar cells. <b>2009</b> , 5, 4219	122
935	Light-induced charge transfer in hybrid composites of organic semiconductors and silicon nanocrystals. <b>2009</b> , 94, 113301	35
934	Simple conjugated polymer nanoparticles as biological labels. <b>2009</b> , 465, 2751-2759	41
933	Isomeric iminofullerenes as acceptors in bulk heterojunction organic solar cells. <b>2009</b> , 19, 5624	41
932	Programmable permanent data storage characteristics of nanoscale thin films of a thermally stable aromatic polyimide. <b>2009</b> , 25, 11713-9	97
931	Read-Out Frequency Response of Solution-Processed Organic Photoconductive Devices. <b>2009</b> , 504, 212-222	7
930	The first liquid crystalline phthalocyanine derivative capable of edge-on alignment for solution processed organic thin-film transistors. <b>2009</b> , 3086-8	32
929	Low band-gap polymers based on quinoxaline derivatives and fused thiophene as donor materials for high efficiency bulk-heterojunction photovoltaic cells. <b>2009</b> , 19, 4938	93
928	Ordering domains of spin cast blends of conjugated and dielectric polymers on surfaces patterned by soft- and photo-lithography. <b>2009</b> , 5, 234-241	28
927	Conjugated 12 nm long oligomers as molecular wires in nanoelectronics. <b>2009</b> , 19, 3899	25
926	Material and device considerations for organic thin-film transistor sensors. <b>2009</b> , 19, 3351	170
925	Slab waveguides of poly(p-phenylenevinylene)s for all-optical switching: impact of side-chain substitution. <b>2009</b> , 19, 7490	5
924	Efficient solar cells based on a new phthalimide-based donor-acceptor copolymer semiconductor: morphology, charge-transport, and photovoltaic properties. <b>2009</b> , 19, 5303	96
923	Performance analysis of bulk heterojunction solar cells fabricated by polymer:fullerene:carbon-nanotube composites. <b>2009</b> ,	
922	Ultrafast vibrational spectroscopy of charge-carrier dynamics in organic photovoltaic materials. <b>2009</b> , 11, 2575-91	57
921	Metal atom behavior on photochromic diarylethene surfaces—deposition rate dependence of selective Mg deposition. <b>2009</b> , 33, 1335	18
920	Low-bandgap thiophene dendrimers for improved light harvesting. <b>2009</b> , 19, 5311	43
919	Solution-processed vanadium oxide as an anode interlayer for inverted polymer solar cells hybridized with ZnO nanorods. <b>2009</b> , 10, 1060-1065	140

918	A model for the current-voltage characteristics of organic bulk heterojunction solar cells. <b>2009</b> , 42, 055102	23
917	Effect of the incorporation of a low-band-gap small molecule in a conjugated vinylene copolymer: PCBM blend for organic photovoltaic devices. <b>2009</b> , 1, 1370-4	38
916	Quantum chemistry of macromolecules and solids. <b>2009</b> , 11, 8397-412	39
915	Random walk numerical simulation for hopping transport at finite carrier concentrations: diffusion coefficient and transport energy concept. <b>2009</b> , 11, 10359-67	53
914	Block-copolymer-nanowires with nanosized domain segregation and high charge mobilities as stacked p/n heterojunction arrays for repeatable photocurrent switching. <b>2009</b> , 131, 18030-1	90
913	Synthesis of Acenaphthyl and Phenanthrene Based Fused-Aromatic Thienopyrazine Co-Polymers for Photovoltaic and Thin Film Transistor Applications. <b>2009</b> , 21, 3618-3628	98
912	"Plastic" solar cells: self-assembly of bulk heterojunction nanomaterials by spontaneous phase separation. <b>2009</b> , 42, 1700-8	575
911	Conduction mechanisms of P3HT: PCBM solar cell. <b>2009</b> ,	2
910	Evolution of nanomorphology and anisotropic conductivity in solvent-modified PEDOT:PSS films for polymeric anodes of polymer solar cells. <b>2009</b> , 19, 9045	255
909	Donor Polymers Containing Benzothiadiazole and Four Thiophene Rings in Their Repeating Units with Improved Photovoltaic Performance. <b>2009</b> , 42, 4410-4415	146
908	Random walk numerical simulation for solar cell applications. <b>2009</b> , 2, 387	43
907	Degradation and stability of R2R manufactured polymer solar cells. <b>2009</b> ,	
906	Influence of side chain of [6,6]-phenyl-C61-butyric acid methyl ester on interfacial electronic structure of [6,6]-phenyl-C61-butyric acid methyl ester /Ag substrate. <b>2009</b> , 94, 043309	10
905	Semi-transparent inverted organic solar cells. <b>2009</b> ,	8
904	Intrinsic nanoscale phase separation in polymers. <b>2010</b> , 92, 26001	3
903	Blends of azobenzene-containing polymers and molecular glasses as stable rewritable holographic storage materials. <b>2010</b> ,	
902	Plasmon-Enhanced Radiative Rates and Applications to Organic Electronics. <b>2010</b> , 543-571	1
901	Improvement of Power Conversion Efficiency in Organic Photovoltaics by Slow Cooling in Annealing Treatment. <b>2010</b> , 3, 122302	10

900	High-efficiency solution processable polymer photovoltaic cells by self-organization of polymer blends. <b>2010</b> , 80-84	13
899	A strong regioregularity effect in self-organizing conjugated polymer films and high-efficiency polythiophene: fullerene solar cells. <b>2010</b> , 63-69	5
898	Unified description of charge-carrier mobilities in disordered organic semiconductors based on both Arrhenius and non-Arrhenius temperature dependence. <b>2010</b> , 74, 1-7	7
897	A new class of semiconducting polymers for bulk heterojunction solar cells with exceptionally high performance. <b>2010</b> , 43, 1227-36	637
896	Temperature dependence of the charge carrier mobility in disordered organic semiconductors at large carrier concentrations. <b>2010</b> , 81,	102
895	Molecular dynamics of regioregular poly(3-hexylthiophene) investigated by NMR relaxation and an interpretation of temperature dependent optical absorption. <b>2010</b> , 114, 1241-8	52
894	Anthracene Based Conjugated Polymers: Correlation between $\pi$ -Stacking Ability, Photophysical Properties, Charge Carrier Mobility, and Photovoltaic Performance. <b>2010</b> , 43, 1261-1269	110
893	Prospects of colloidal nanocrystals for electronic and optoelectronic applications. <b>2010</b> , 110, 389-458	3354
892	Near-infrared organic compounds and emerging applications. <b>2010</b> , 5, 1006-29	571
891	Synthesis, photophysics, and electrochemistry of thiophene $\pi$ pyridine and thiophene $\pi$ pyrimidine dyad comonomers. <b>2010</b> , 88, 236-246	21
890	Ultrafast IR Spectroscopic Study of Free Carrier Formation in OPV Polymer Blends. <b>2010</b> , 53-69	
889	Molecular semiconductors in organic photovoltaic cells. <b>2010</b> , 110, 6689-735	773
888	Bulk-heterojunction hybrid solar cells based on colloidal nanocrystals and conjugated polymers. <b>2010</b> , 3, 1851	234
887	Charge-carrier and polaron hopping mobility in disordered organic solids: Carrier-concentration and electric-field effects. <b>2010</b> , 90, 1229-1244	15
886	Multilayered Semiconductor (CdS/CdSe/ZnS)-Sensitized TiO <sub>2</sub> Mesoporous Solar Cells: All Prepared by Successive Ionic Layer Adsorption and Reaction Processes. <b>2010</b> , 22, 5636-5643	211
885	Theoretical investigations of the charge transfer properties of anthracene derivatives. <b>2010</b> , 127, 587-594	25
884	Efficiency of flexible organic solar cells as a function of post-annealing temperatures. <b>2010</b> , 10, e181-e184	5
883	Synthesis and photoelectric property of poly (3-methoxythiophene)/titanium dioxide complexes. <b>2010</b> , 94, 755-760	27



882	Improved photovoltaic effect of polymer solar cells with nanoscale interfacial layers. <b>2010</b> , 94, 1152-1156	16
881	Nanostructured morphology of P3HT:PCBM bulk heterojunction solar cells. <b>2010</b> , 54, 447-451	25
880	Effects of steric anthracene moieties and keto defects on photophysics and color stability of poly(9,9-di(2-ethylhexyl)fluorene-stat-anthracene) in different local environments. <b>2010</b> , 18, 1182-1190	
879	Optoelectronic properties of fluorene-co-4,7-difuran-2,1,3-benzothiadiazole copolymers. <b>2010</b> , 53, 576-580	4
878	Polaron-pair-dependent equivalent circuit parameters of organic solar cells based on CuPc and C60. <b>2010</b> , 55, 1317-1324	6
877	White organic light emitting devices with a color conversion layer. <b>2010</b> , 6, 245-248	2
876	Synthesis, Characterization and Photovoltaic Behavior of a Very Narrow-Bandgap Metallopolyyne of Platinum: Solar Cells with Photocurrent Extended to Near-Infrared Wavelength. <b>2010</b> , 20, 478-487	19
875	Synthesis and photoelectric property of poly(3-octylthiophene)/ferric oxide complexes. <b>2010</b> , 45, 3866-3873	9
874	Pulsed Excitation of OLEDs With a Remote Metallic Cathode. <b>2010</b> , 46, 62-67	11
873	Optimization of Active Layer and Anode Electrode for High-Performance Inverted Bulk-Heterojunction Solar Cells. <b>2010</b> , 16, 1665-1675	26
872	Charge Separation at Molecular Donor-Acceptor Interfaces: Correlation Between Morphology and Solar Cell Performance. <b>2010</b> , 16, 1707-1717	48
871	Black Polymers in Bulk-Heterojunction Solar Cells. <b>2010</b> , 16, 1565-1572	9
870	. <b>2010</b> , 12, 18-27	7
869	Investigation of the effects of substrate annealing on the properties of polymer blends. <b>2010</b> , 124, 208-216	14
868	Semiconductor behavior of 2,5-aromatic disubstituted pyrroles, viewed from an experimental and theoretical perspective. <b>2010</b> , 124, 257-263	12
867	Axially Extended Perylene Dyes. <b>2010</b> , 2010, 3140-3145	6
866	Understanding the Physicoelectrochemical Properties of Carbon Nanotubes: Current State of the Art. <b>2010</b> , 22, 7-19	63
865	Anode Interfacial Tuning via Electron-Blocking/Hole-Transport Layers and Indium Tin Oxide Surface Treatment in Bulk-Heterojunction Organic Photovoltaic Cells. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 595-606	15.6 158

864	Poly(3-hexylthiophene) Nanorods with Aligned Chain Orientation for Organic Photovoltaics. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 540-545	15.6	212
863	Enhanced Thermal Stability and Efficiency of Polymer Bulk-Heterojunction Solar Cells by Low-Temperature Drying of the Active Layer. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 834-839	15.6	42
862	High-Resolution Spectroscopic Mapping of the Chemical Contrast from Nanometer Domains in P3HT:PCBM Organic Blend Films for Solar-Cell Applications. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 492-499	15.6	89
861	Ten Years of Advanced Functional Materials. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 11-12	15.6	1
860	Enhanced-Light-Harvesting Amphiphilic Ruthenium Dye for Efficient Solid-State Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 1821-1826	15.6	67
859	Annealing-Free High Efficiency and Large Area Polymer Solar Cells Fabricated by a Roller Painting Process. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 2355-2363	15.6	69
858	Fabrication, Optical Modeling, and Color Characterization of Semitransparent Bulk-Heterojunction Organic Solar Cells in an Inverted Structure. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 1592-1598	15.6	174
857	The Dependence of Device Dark Current on the Active-Layer Morphology of Solution-Processed Organic Photodetectors. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 3895-3903	15.6	74
856	Solar-energy production and energy-efficient lighting: photovoltaic devices and white-light-emitting diodes using poly(2,7-fluorene), poly(2,7-carbazole), and poly(2,7-dibenzosilole) derivatives. <b>2010</b> , 22, E6-E27		212
855	Improved performance of polymer bulk heterojunction solar cells through the reduction of phase separation via solvent additives. <b>2010</b> , 22, E63-6		373
854	Polymer-fullerene bulk-heterojunction solar cells. <b>2010</b> , 22, 3839-56		1629
853	Photo-curable polymer blend dielectrics for advancing organic field-effect transistor applications. <b>2010</b> , 22, 4809-13		23
852	Delayed luminescence spectroscopy of organic photovoltaic binary blend films: Probing the emissive non-geminate charge recombination. <b>2010</b> , 22, 5183-7		24
851	Synthesis of Poly(2,7-carbazole)s and Derivatives. <b>2010</b> , 205-226		9
850	Phenylene-Based Ladder Polymers. <b>2010</b> , 227-245		3
849	Semiconductor Block Copolymers for Photovoltaic Applications. <b>2010</b> , 317-338		3
848	Electropolymerized Films of $\pi$ Conjugated Polymers. A Tool for Surface Functionalization: A Brief Historical Evolution and Recent Trends. <b>2010</b> , 1-26		2
847	Simultaneous Spatial and Temporal Control of Nanooptical Fields. <b>2010</b> , 555-577		

846	Electron donor-acceptor interactions in regioselectively synthesized exTTF(2)-C(70)(CF(3))(10) dyads. <b>2010</b> , 16, 5343-53	17
845	Spermine-functionalized perylene bisimide dyes--highly fluorescent bola-amphiphiles in water. <b>2010</b> , 16, 3372-82	66
844	Synthesis and photovoltaic properties of cyclopentadithiophene-based low-bandgap copolymers that contain electron-withdrawing thiazole derivatives. <b>2010</b> , 16, 3743-52	104
843	Dipolar compounds containing fluorene and a heteroaromatic ring as the conjugating bridge for high-performance dye-sensitized solar cells. <b>2010</b> , 16, 3184-93	123
842	Synthesis, characterization, and bipolar transporting behavior of a new twisted polycyclic aromatic hydrocarbon: 1',4'-diphenyl-naphtho-(2'.3':1.2)-pyrene-6'-nitro-7'-methyl carboxylate. <b>2010</b> , 16, 7422-6	95
841	Chain-growth versus step-growth mechanisms for the Suzuki-Heck polymerisation of fluorenyldibromides with potassium vinyl trifluoroborate. <b>2010</b> , 16, 8054-61	18
840	Dumbbell-shaped dinuclear iridium complexes and their application to light-emitting electrochemical cells. <b>2010</b> , 16, 9855-63	46
839	Strain and Hückel Aromaticity: Driving Forces for a Promising New Generation of Electron Acceptors in Organic Electronics. <b>2010</b> , 122, 542-546	46
838	A Polybenzo[1,2-b:4,5-b']dithiophene Derivative with Deep HOMO Level and Its Application in High-Performance Polymer Solar Cells. <b>2010</b> , 122, 1542-1545	52
837	Strain and hückel aromaticity: driving forces for a promising new generation of electron acceptors in organic electronics. <b>2010</b> , 49, 532-6	261
836	A polybenzo[1,2-b:4,5-b']dithiophene derivative with deep HOMO level and its application in high-performance polymer solar cells. <b>2010</b> , 49, 1500-3	459
835	Polymeric Squaraine Dyes as Electron Donors in Bulk Heterojunction Solar Cells. <b>2010</b> , 211, 1098-1108	54
834	Donor/Spacer/Acceptor Block Copolymer Containing Poly(2,7-carbazole) and Perylenetetra-carboxydiimide Subunits. <b>2010</b> , 211, 1446-1451	4
833	Effect of Central Metals in the Porphyrin Ring on Photocurrent Performance of Cellulose Langmuir-Blodgett Films. <b>2010</b> , 211, 2425-2433	15
832	Effects of Nematic Liquid Crystal Additives on the Performance of Polymer Solar Cells. <b>2010</b> , 211, 2474-2479	24
831	Synthesis and Photovoltaic Properties of Conjugated Copolymers with Benzo[1,2-b:4,5-b']dithiophene and Bis(thiophene)phthalimide Units. <b>2010</b> , 211, 2596-2601	24
830	Crystallization-Induced Phase Segregation Based on Double-Crystalline Blends of Poly(3-hexylthiophene) and Poly(ethylene glycol)s. <b>2010</b> , 31, 532-8	35
829	Very-low-bandgap metallopolynes of platinum with a cyclopentadithiophenone ring for organic solar cells absorbing down to the near-infrared spectral region. <b>2010</b> , 31, 861-7	55

828	Organic ambipolar conjugated molecules for electronics: synthesis and structure-property relationships. <b>2010</b> , 31, 2007-34	46
827	Synthesis and photovoltaic properties of novel alternating phenylenevinylene or fluorenevinylene copolymers containing perylene bisimide. <b>2010</b> , 70, 426-432	9
826	Hybrid photovoltaic devices from regioregular polythiophene and ZnO nanoparticles composites. <b>2010</b> , 35, 2683-2688	29
825	Fluorescent nano particles in the aqueous phase by polymer analogous reaction of polyvinyl alcohol. <b>2010</b> , 77, 541-4	3
824	A ferrocene functionalized multichromic p and n dopable donor-acceptor-donor type conjugated polymer. <b>2010</b> , 648, 184-189	18
823	Correlation between spectroscopic and morphological properties of composite P3HT/PCBM nanoparticles studied by single particle spectroscopy. <b>2010</b> , 130, 771-780	39
822	Effect of mixture ratio on the performance of MDMO-PPV:PCBM bulk heterojunction solar cells: A numerical study. <b>2010</b> , 172, 305-310	
821	Sensitization of organic photovoltaic cells based on interlayer excitation energy transfer. <b>2010</b> , 11, 700-704	31
820	Synthesis and photovoltaic properties of low-bandgap alternating copolymers consisting of 3-hexylthiophene and [1,2,5]thiadiazolo[3,4-g]quinoxaline derivatives. <b>2010</b> , 11, 846-853	38
819	Thermally stable amorphous polymeric semiconductors containing fluorene and thiophene for use in organic photovoltaic cells. <b>2010</b> , 11, 1534-1542	14
818	Band alignment engineering in organized rrP3HT/C60 bulk heterojunction. <b>2010</b> , 11, 1991-1998	1
817	Copper(II) complexes of thioaryloxo-pentanedione: Structures, magnetism, redox properties and correlation with DFT calculations. <b>2010</b> , 29, 3147-3156	20
816	Conjugated copolymers based on dihexyl-benzimidazole moiety for organic photovoltaics. <b>2010</b> , 51, 5385-5391	24
815	Optical and charge carrier transport properties of polymer light emitting diodes based on MEH-PPV. <b>2010</b> , 405, 1596-1602	15
814	Light output enhancement for nitride-based light emitting diodes via imprinting lithography using spin-on glass. <b>2010</b> , 87, 2211-2217	3
813	<sup>60</sup> Co $\beta$ irradiation effects on electrical properties of a rectifying diode based on a novel macrocyclic Zn octaamide complex. <b>2010</b> , 612, 360-366	11
812	Poly(aniline) doped with 5-formyl-2-furansulfonic acid: A humidity memory. <b>2010</b> , 11, 472-478	17
811	Active layer transfer by stamping technique for polymer solar cells: Synergistic effect of TiOx interlayer. <b>2010</b> , 11, 599-603	22

810	Embedded organic hetero-junction and negative-differential-resistance photocurrent based on bias-assisted natural-drying of organic drops. <b>2010</b> , 11, 1543-1548	2
809	Electrosyntheses and characterizations of novel electrochromic and fluorescent copolymers based on 2,2'-bithiophene and pyrene. <b>2010</b> , 55, 8855-8862	37
808	Versatile synthesis of 3,4-b diheteropentalenes. <b>2010</b> , 51, 2089-2091	12
807	Highly flexible indium zinc oxide electrode grown on PET substrate by cost efficient roll-to-roll sputtering process. <b>2010</b> , 518, 3071-3074	18
806	Plasmon-enhanced optical absorption and photocurrent in organic bulk heterojunction photovoltaic devices using self-assembled layer of silver nanoparticles. <b>2010</b> , 94, 128-132	175
805	Efficient organic photovoltaic tandem cells with novel transparent conductive oxide interlayer and poly (3-hexylthiophene): Fullerene active layers. <b>2010</b> , 94, 376-380	42
804	Annealing-free fabrication of P3HT:PCBM solar cells via simple brush painting. <b>2010</b> , 94, 171-175	51
803	Carrier-Selectivity-Dependent Charge Recombination Dynamics in Organic Photovoltaic Cells with a Ferroelectric Blend Interlayer. <b>2015</b> , 5, 1500802	20
802	Investigation of the Qx -Qy Equilibrium in a Metal-Free Phthalocyanine. <b>2015</b> , 16, 3992-6	5
801	Low-Energy-Gap Organic Based Acceptor/Donor/Acceptor EConjugated Small Molecules for Bulk-Heterojunction Organic Solar Cells. <b>2015</b> , 2015, 4629-4634	9
800	Low-Temperature and Hysteresis-Free Electron-Transporting Layers for Efficient, Regular, and Planar Structure Perovskite Solar Cells. <b>2015</b> , 5, 1501056	62
799	Current-voltage characteristics of manganite-titanite perovskite junctions. <b>2015</b> , 6, 1467-84	14
798	Performance Enhancement of Bulk Heterojunction Hybrid Solar Cell Using Macroporous Silicon. <b>2015</b> , 43, 11-20	1
797	Solution processable graphene oxide hole transport layers and their application in P3HT:HHPER active layer based BHJSC. <b>2015</b> , 39, 254-263	1
796	Fundamental Study on the Effect of Spray Parameters on Characteristics of P3HT:PCBM Active Layers Made by Spray Coating. <b>2015</b> , 5, 488-510	22
795	Visible Light Communications towards 5G. <b>2015</b> , 24, 1-9	44
794	Structural Dependence of Electronic Properties in A-A-D-A-A-Type Organic Solar Cell Material. <b>2015</b> , 2015, 1-7	2
793	Synergetic Enhancement of Device Efficiency in Poly(3-hexylthiophene-2,5-diyl)/[6,6]-phenyl C61Butyric Acid Methyl Ester Bulk Heterojunction Solar Cells by Glycerol Addition in the Active Layer. <b>2015</b> , 2015, 1-8	

792	Wiring functional groups in mesoporous organosilica materials. <b>2015</b> , 3, 2195-2203	6
791	Optimization of the zinc oxide electron transport layer in P3HT:PC61BM based organic solar cells by annealing and yttrium doping. <b>2015</b> , 5, 45586-45591	11
790	Morphology and local electrical properties of PTB7:PC71BM blends. <b>2015</b> , 3, 8706-8714	16
789	Thermal Annealing Effect on the Optical, Electrical and Morphological Properties of the PBTTT-C12:PC71BM Blend Films. <b>2015</b> , 137,	2
788	Synthesis and photovoltaic properties of dithieno[3,2-b:2',3'-d]silole-based conjugated copolymers. <b>2015</b> , 3, 13794-13800	17
787	Fiber-Shaped Perovskite Solar Cell. <b>2015</b> , 97-115	1
786	Beyond Shockley-Queisser: Molecular Approaches to High-Efficiency Photovoltaics. <b>2015</b> , 6, 2367-78	106
785	Perylene bisimide as the cathode modifier in organic photovoltaics: the role of aggregation morphology on the interlayer performance. <b>2015</b> , 5, 39973-39977	7
784	Spray coating methods for polymer solar cells fabrication: A review. <b>2015</b> , 39, 416-425	79
783	Organometallic Versus Organic Molecules for Energy Conversion in Organic Light-Emitting Diodes and Solar Cells. <b>2015</b> , 1-28	
782	The impact of molecular stacking interactions on the electronic structure and charge transport properties in distyrylbenzene (DSB-) based D $\pi$ A complexes: a theoretical study. <b>2015</b> , 5, 47681-47691	10
781	A quantum chemical study of the factors influencing performance of DTTTD: Fullerene heterojunction photovoltaic models. <b>2015</b> , 310, 9-25	2
780	A model for studying the performance of P3HT:PCBM organic bulk heterojunction solar cells. <b>2015</b> , 126, 1429-1432	9
779	HYBRID ORGANIC SOLAR CELLS BLENDED WITH CNTs. <b>2015</b> , 22, 1550072	
778	Light-induced characteristic variations in organic thin-film transistors with a poly(vinylphenol-co-methyl methacrylate)/titanium-dioxide nanocomposite gate dielectric. <b>2015</b> , 67, 1853-1858	2
777	Large matrix polymer solar cells fabricated by low cost air-brush spray deposition. <b>2015</b> , 11, 244-247	
776	Development of a julolidine-based interfacial modifier for efficient inverted polymer solar cells. <b>2015</b> , 5, 107540-107546	12
775	Logarithmic organic photodetectors. <b>2015</b> , 210, 288-296	8

774	Effect of donor weight in a P3HT:PCBM blended layer on the characteristics of a polymer photovoltaic cell. <b>2015</b> , 66, 1720-1725	2
773	Efficiency Enhancement of Polymer Solar Cells with Three-Component Active Layer. <b>2015</b> , 620, 53-63	
772	Effect of 1,8-Diiodooctane on the Performance of P3HT:PCBM Solar Cells. <b>2015</b> , 137,	2
771	Modern Drifts in Conjugated Polymers and Nanocomposites for Organic Solar Cells: A Review. <b>2015</b> , 54, 140-154	12
770	Roll-to-roll sputtered Si-doped In <sub>2</sub> O <sub>3</sub> /Ag/Si-doped In <sub>2</sub> O <sub>3</sub> multilayer as flexible and transparent anodes for flexible organic solar cells. <b>2015</b> , 33, 021501	14
769	New generation solar cells: concepts, trends and perspectives. <b>2015</b> , 51, 3957-72	134
768	Anomalous maximum and minimum for the dissociation of a geminate pair in energetically disordered media. <b>2015</b> , 620, 123-128	2
767	Electrical bistability studies on vacuum evaporated copper phthalocyanine (CuPc)/fullerene (C <sub>60</sub> ) bilayers. <b>2015</b> , 117, 24-27	7
766	Control over the photophysical properties of nanoparticles of regioregular poly(3-octylthiophene) using various poor solvents. <b>2015</b> , 203, 1-9	9
765	An abnormal melting behavior from the in situ photoluminescence spectral in poly(3-hexylthiophene) thin films annealed at high temperature. <b>2015</b> , 623, 89-92	2
764	Sub-bandgap photon harvesting for organic solar cells via integrating up-conversion nanophosphors. <b>2015</b> , 19, 113-119	12
763	The fate of phenothiazine-based redox shuttles in lithium-ion batteries. <b>2015</b> , 17, 6905-12	29
762	High-performance multiple-donor bulk heterojunction solar cells. <b>2015</b> , 9, 190-198	440
761	Analytical expression for the current-voltage characteristics of organic bulk heterojunction solar cells. <b>2015</b> , 5, 027115	15
760	Rational design of two-dimensional molecular donor-acceptor nanostructure arrays. <b>2015</b> , 7, 4306-24	24
759	High open-circuit voltage solution-processed organic solar cells based on a star-shaped small molecule end-capped with a new rhodanine derivative. <b>2015</b> , 58, 357-363	21
758	Organic photovoltaic initial stage degradation analysis using impedance spectroscopy. <b>2015</b> , 202, 63-67	6
757	Single-junction polymer solar cells with over 10% efficiency by a novel two-dimensional donor-acceptor conjugated copolymer. <b>2015</b> , 7, 4928-35	241



756	Functionalized fullerenes in water: a closer look. <b>2015</b> , 49, 2147-55	12
755	A close look at charge generation in polymer:fullerene blends with microstructure control. <b>2015</b> , 137, 2908-18	68
754	Methacrylate Copolymers with Liquid Crystalline Side Chains for Organic Gate Dielectric Applications. <b>2015</b> , 7, 12339-47	13
753	Aggregation behavior of sodium lauryl ether sulfate with a positively bicharged organic salt and effects of the mixture on fluorescent properties of conjugated polyelectrolytes. <b>2015</b> , 31, 2104-11	22
752	A Selenophene Containing Benzodithiophene-alt-thienothiophene Polymer for Additive-Free High Performance Solar Cell. <b>2015</b> , 48, 562-568	52
751	Metal-Free Reagent Dependent S-S and C-C Homocoupling of $\alpha$ -Enolic Dithioesters at Room Temperature: Direct Access to Fully Substituted Symmetrical Thiophenes via Chemoselective Paal-Knorr Approach. <b>2015</b> , 357, 530-538	18
750	. <b>2015</b> , 5, 234-237	12
749	Ultrafast Nano-Focusing for Imaging and Spectroscopy with Electrons and Light. <b>2015</b> , 281-324	1
748	Oxidovanadium(IV) complexes involving dehydroacetic acid and $\beta$ -diketones of bioinorganic and medicinal relevance: Their synthesis, characterization, thermal behavior and DFT aspects. <b>2015</b> , 1083, 343-356	18
747	Fabrication of a multi-charge generable poly(phenyl isocyanide)-block-poly(3-hexylthiophene) rod-coil conjugated copolymer. <b>2015</b> , 6, 2348-2355	21
746	Polymer solar cells based on P3HT:PC71BM doped at different concentrations of isocyanate-treated graphene. <b>2015</b> , 200, 91-98	23
745	Electrochemical properties of electrospun poly(5-cyanoindole) submicron-fibrous electrode for zinc/polymer secondary battery. <b>2015</b> , 279, 114-122	29
744	A new strategy for fabricating organic photovoltaic devices with stable D/A double-channel network to enhance performance using self-assembling all-conjugated diblock copolymer. <b>2015</b> , 13, 103-116	24
743	Relationships between processing conditions, morphology, and I-V characteristics in P3HT:PCBM solar cells. <b>2015</b> , 26, 2639-2646	1
742	Fiber-Shaped Energy Harvesting and Storage Devices. <b>2015</b> ,	25
741	Photoinduced smart, self-healing polymer sealant for photovoltaics. <b>2015</b> , 7, 2064-72	88
740	Formation of charge transfer complexes significantly improves the electron transfer process of polymer solar cells. <b>2015</b> , 18, 70-76	5
739	Synthesis and photovoltaic properties of new small molecules with rhodanine derivative as the end-capped blocks. <b>2015</b> , 17, 355-363	16



738	Plasmonic organic solar cell employing Au NP:PEDOT:PSS doped rGO. <b>2015</b> , 5, 23892-23899	13
737	Matrix Organization and Merit Factor Evaluation as a Method to Address the Challenge of Finding a Polymer Material for Roll Coated Polymer Solar Cells. <b>2015</b> , 5, 1402186	47
736	Hole-selective and impedance characteristics of an aqueous solution-processable MoO <sub>3</sub> layer for solution-processable organic semiconducting devices. <b>2015</b> , 66, 635-645	1
735	Synthesis of one-dimensional Schiff base polymers that contain an oligothiophene building block on the graphite surface. <b>2015</b> , 21, 6898-905	6
734	In operando morphology investigation of inverted bulk heterojunction organic solar cells by GISAXS. <b>2015</b> , 3, 8324-8331	48
733	One-dimensional nanostructures for flexible supercapacitors. <b>2015</b> , 3, 16382-16392	59
732	Mesomorphism and electrochemistry of thienoviologen liquid crystals. <b>2015</b> , 17, 17670-8	32
731	Recent developments in TiO <sub>2</sub> as n- and p-type transparent semiconductors: synthesis, modification, properties, and energy-related applications. <b>2015</b> , 50, 7495-7536	75
730	Crystallization of solution processable amorphous tetrabenzoporphyrin films. <b>2015</b> , 590, 49-53	
729	Solution-processed new porphyrin-based small molecules as electron donors for highly efficient organic photovoltaics. <b>2015</b> , 51, 14439-42	62
728	Effects of exciton blocking layer and cathode electrode work function on the performance of polymer solar cells. <b>2015</b> , 40, 218-223	1
727	Understanding the role of organic polar solvent induced nanoscale morphology and electrical evolutions of P3HT:PCBM composite film. <b>2015</b> , 25, 50-56	8
726	Fullerene-capped copolymers for bulk heterojunctions: device stability and efficiency improvements. <b>2015</b> , 3, 18207-18221	25
725	Spectroscopic investigation of different concentrations of the vapour deposited copper phthalocyanine as a "guest" in polyimide matrix. <b>2015</b> , 140, 444-50	3
724	Modulation and evaluation of the charge carrier mobility in a polymer alloy of polythiophene and an insulating matrix with an electron accepting molecule. <b>2015</b> , 6, 5860-5868	5
723	Wavelength influence on the photodegradation of P3HT:PCBM organic solar cells. <b>2015</b> , 141, 423-428	21
722	Metal oxide semiconducting interfacial layers for photovoltaic and photocatalytic applications. <b>2015</b> , 4, 1	54
721	On-off switch of charge-separated states of pyridine-vinylene-linked porphyrin-C conjugates detected by EPR. <b>2015</b> , 6, 5994-6007	21

720	Synthesis and optical properties of a new triphenylamine-p-phenylenevinylene-small molecule with applications in high open-circuit voltage organic solar cells. <b>2015</b> , 39, 7389-7396	6
719	Efficiency enhancement of organic photovoltaic modules prepared via wash processing. <b>2015</b> , 143, 58-62	1
718	Fill factor in organic solar cells can exceed the Shockley-Queisser limit. <b>2015</b> , 5, 11478	14
717	Design, fabrication and charge recombination analysis of an interdigitated heterojunction nanomorphology in P3HT/PC(70)BM solar cells. <b>2015</b> , 7, 13848-59	13
716	Solvent vapor annealing on perylene-based organic solar cells. <b>2015</b> , 3, 15700-15709	25
715	The effect of TiO <sub>2</sub> surface modification on the photovoltaic properties of hybrid bulk heterojunction solar cells based on MEH-PPV/CdS/TiO <sub>2</sub> active layer. <b>2015</b> , 4,	
714	Modulation of optical and electronic properties of quinoxaline-based conjugated polymers for organic photovoltaic cells. <b>2015</b> , 53, 1904-1914	5
713	Grain size dependence of degradation of aluminium/calcium cathodes in organic solar cells following exposure to humid air. <b>2015</b> , 140, 25-32	37
712	A small molecule composed of anthracene and thienothiophene devised for high-performance optoelectronic applications. <b>2015</b> , 120, 30-36	9
711	Silicon thin films thickness estimation: A Monte Carlo simulation study. <b>2015</b> , 126, 1040-1043	4
710	Nano-engineering of hybrid organic heterojunctions with carbon nanotubes to improve photovoltaic performance. <b>2015</b> , 22, 35-39	11
709	Sonochemistry-synthesized CuO nanoparticles as an anode interfacial material for efficient and stable polymer solar cells. <b>2015</b> , 5, 28786-28793	36
708	Influence of the temperature on the charge transport and recombination profile in organic bulk heterojunction solar cells: a drift-diffusion study. <b>2015</b> , 119, 1523-1529	5
707	MAPLE-deposited PFO films: influence of the laser fluence and repetition rate on the film emission and morphology. <b>2015</b> , 119, 453-461	9
706	Insight into external electric field dependent photoinduced intermolecular charge transport in BHJ solar cell materials. <b>2015</b> , 3, 4810-4819	54
705	Direct C-H arylation synthesis of (DD?AD?DA?)-constituted alternating polymers with low bandgaps and their photovoltaic performance. <b>2015</b> , 39, 4957-4964	14
704	Synthesis and structure-property relationship of carbazole-alt-benzothiadiazole copolymers. <b>2015</b> , 53, 2059-2068	14
703	Space charge region effects in bidirectional illuminated P3HT:PCBM bulk heterojunction photodetectors. <b>2015</b> , 22, 29-34	20

702	Optical and electronic properties of layer-by-layer and composite polyaniline-cadmium selenide quantum dot films. <b>2015</b> , 84, 154-164	8
701	ITO-free inverted organic solar cells fabricated with transparent and low resistance ZnO/Ag/ZnO multilayer electrode. <b>2015</b> , 15, 829-832	17
700	Toward a comprehensive understanding of molecular doping organic semiconductors (review). <b>2015</b> , 204, 208-222	92
699	Functionalized Graphene as an Electron-Cascade Acceptor for Air-Processed Organic Ternary Solar Cells. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3870-3880	15.6 63
698	Measuring electro-mechanical properties of thin films on polymer substrates. <b>2015</b> , 137, 96-100	37
697	Organic and Excitonic Solar Cells. <b>2015</b> , 81-125	1
696	Synthesis and characterization of a charm-bracelet-type poly(N-vinylcarbazole)160 double-cable polymer. <b>2015</b> , 50, 3740-3749	11
695	Solution-processed MoO <sub>3</sub> :PEDOT:PSS hybrid hole transporting layer for inverted polymer solar cells. <b>2015</b> , 7, 7170-9	69
694	Ultraviolet light response of electrical and dielectric properties in zinc phthalocyanine and fullerene dispersed liquid crystal composites. <b>2015</b> , 93, 1207-1212	4
693	Improvement of Conversion Efficiency of Inverted Organic Photovoltaic With PEDOT: PSS:WO <sub>x</sub> by Thermal Annealing. <b>2015</b> , 5, 897-902	5
692	A low band-gap copolymer composed of thienyl substituted anthracene and diketopyrrolopyrrole compatible with multiple electron acceptors for high efficiency polymer solar cells. <b>2015</b> , 6, 4013-4019	24
691	Study of spatial inhomogeneity in inverted all-polymer solar cells: Effect of solvent and annealing. <b>2015</b> , 53, 804-813	2
690	Effect of acceptor strength on optical and electronic properties in conjugated polymers for solar applications. <b>2015</b> , 137, 5759-69	31
689	Origin of photogenerated carrier recombination at the metal-active layer interface in polymer solar cells. <b>2015</b> , 17, 27690-7	15
688	Efficient ternary organic photovoltaics incorporating a graphene-based porphyrin molecule as a universal electron cascade material. <b>2015</b> , 7, 17827-35	39
687	Non-volatile resistive photo-switches for flexible image detector arrays. <b>2015</b> ,	1
686	Development of a silver/polymer nanocomposite interconnection layer for organic tandem solar cells. <b>2015</b> , 9, 093049	13
685	Influence of thermal and solvent annealing on the morphology and photovoltaic performance of solution processed, DAD type small molecule-based bulk heterojunction solar cells. <b>2015</b> , 5, 93579-93590	11

684	Revealing the working mechanism of polymer photodetectors with ultra-high external quantum efficiency. <b>2015</b> , 17, 30712-20	55
683	Cesium doping at C60/rubrene heterointerfaces for improving the performance of organic light- and current-generating devices. <b>2015</b> , 117, 015501	2
682	Absorption-induced scattering and surface plasmon out-coupling from absorber-coated plasmonic metasurfaces. <b>2015</b> , 6, 7899	37
681	Structure, Optical Absorption, and Performance of Organic Solar Cells Improved by Gold Nanoparticles in Buffer Layers. <b>2015</b> , 7, 24430-7	21
680	Synergetic effect enhanced photoelectrocatalysis. <b>2015</b> , 51, 17700-3	10
679	Application of dipole mono-layers for efficiency improvement in organic solar cells. <b>2015</b> , 47, 3871-3882	2
678	Transparent conductive ZnO layers on polymer substrates: Thin film deposition and application in organic solar cells. <b>2015</b> , 591, 97-104	34
677	Development and Structure/Property Relationship of New Electron Accepting Polymers Based on Thieno[2,3-b:4,5]pyrido[2,3-g]thieno[3,2-c]quinoline-4,10-dione for All-Polymer Solar Cells. <b>2015</b> , 27, 5941-5948	53
676	n-Type Columnar Liquid Crystal Combining Ionic and Electronic Functions. <b>2015</b> , 610, 108-115	10
675	Graphene-carbon nanotube papers for energy conversion and storage under sunlight and heat. <b>2015</b> , 95, 150-156	16
674	Structural, morphological, and electrical properties of polyaniline-Fe <sub>2</sub> O <sub>3</sub> nanocomposites. <b>2015</b> , 57, 257-263	11
673	Improved Efficiency in Dithieno[3,2-b:2',3'-d]silole-Based Polymer Solar Cells by the Insertion of ZnO Optical Spacer. <b>2015</b> , 119, 20817-20822	13
672	Preparation and Characterization of Chitosan/ Polypyrrole/ Sepiolite Nanocomposites. <b>2015</b> , 195, 1623-1632	11
671	Morphologically controlled ZnO nanostructures as electron transport materials in polymer-based organic solar cells. <b>2015</b> , 180, 435-441	13
670	Thermal analysis of organic solar cells using an enhanced opto-thermal model. <b>2015</b> , 25, 184-192	3
669	Understanding structural and electronic properties of dithienyl benzothiadiazole and its complex with C70. <b>2015</b> , 75, 73-77	6
668	Light-induced electron spin resonance study of galvinoxyl-doped P3HT/PCBM bulk heterojunctions. <b>2015</b> , 27, 119-125	4
667	Analysis of the ac response of an organic bulk-heterojunction solar cell based on AnE-PVstat:PCBM. <b>2015</b> , 210, 352-356	5

666	Molecular Modeling of Interfaces between Hole Transport and Active Layers in Flexible Organic Electronic Devices. <b>2015</b> , 119, 27909-27918	9
665	X-ray imaging with scintillator-sensitized hybrid organic photodetectors. <b>2015</b> , 9, 843-848	184
664	Synergistic concurrent enhancement of charge generation, dissociation, and transport in organic solar cells with plasmonic metal-carbon nanotube hybrids. <b>2015</b> , 27, 1519-25	77
663	Intermolecular Hydrogen Bonding and Molecular Orbital Distortion in 4-Hydroxycyanobenzene Investigated by X-ray Spectroscopy. <b>2015</b> , 119, 121-129	12
662	Deep localized distortion of alternating bonds and reduced transport of charged carriers in conjugated polymers under photoexcitation. <b>2015</b> , 7, 479-86	1
661	Development of the morphology during functional stack build-up of P3HT:PCBM bulk heterojunction solar cells with inverted geometry. <b>2015</b> , 7, 602-10	21
660	Photovoltaic effect in single-junction organic solar cell fabricated using vanadyl phthalocyanine soluble derivative. <b>2015</b> , 44, 26-32	9
659	Band gap tunable benzodithiophene-based donor-rich semi-random D <sub>A</sub> copolymers with active layer thickness tolerance for organic solar cells. <b>2015</b> , 134, 148-156	7
658	Giant enhancement of inverted polymer solar cells efficiency by manipulating dual interlayers with integrated approaches. <b>2015</b> , 5, 1549-1556	12
657	Influence of the CdSe quantum dots concentration on the amplified spontaneous emission from the conjugated polymer (MEH-PPV) in solution. <b>2015</b> , 67, 150-154	3
656	Understanding the effect of heteroatoms on structural and electronic properties of conjugated polymers. <b>2015</b> , 56, 293-299	10
655	P3HT:PC61BM based solar cells employing solution processed copper iodide as the hole transport layer. <b>2015</b> , 133, 255-259	51
654	New methanofullerene as a buffer layer in organic solar cells. <b>2015</b> , 458, 114-116	4
653	Enhanced Optical Property with Tunable Band Gap of Cross-linked PEDOT Copolymers via Oxidative Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 85-93	15.6 45
652	Solution processed polymer light emitting diode with vanadium-oxide doped PEDOT:PSS. <b>2015</b> , 212, 640-645	16
651	Functional supramolecular polymers for biomedical applications. <b>2015</b> , 27, 498-526	346
650	Narrow band gap conjugated polymer for improving the photovoltaic performance of P3HT:PCBM ternary blend bulk heterojunction solar cells. <b>2015</b> , 6, 962-972	21
649	Bulk heterojunction organic solar cells fabricated using the push coating technique. <b>2015</b> , 3, 1-8	7

648	Closed-form expressions correlating exciton transport and interfacial charge carrier generation with the donor/acceptor morphology in organic bulk heterojunction solar cells. <b>2015</b> , 456, 267-274	4
647	Non-covalent functionalisation of single wall carbon nanotubes for efficient dye-sensitised solar cells. <b>2015</b> , 274, 274-279	22
646	Improve the photovoltaic performance of new quinoxaline-based conjugated polymers from the view of conjugated length and steric hindrance. <b>2015</b> , 6, 55-63	22
645	Influence of active region thickness on the performance of bulk heterojunction solar cells: electrical modeling and simulation. <b>2015</b> , 47, 621-632	8
644	. <b>2016</b> ,	60
643	Inverted Bulk-Heterojunction Solar Cells on a PEDOT:PSS-Coated PEN Substrate with PFN as a Cathode Buffer Layer. <b>2016</b> , E99.C, 555-558	
642	Space Charge-limited Current Model for Polymers. <b>2016</b> ,	15
641	Solar Energy Conversion [Natural to Artificial]. <b>2016</b> ,	
640	SIGNIFICANCE OF SUBSTRATE TEMPERATURE ON ELECTRICAL CONDUCTIVITY, HALL EFFECT, AND THICKNESS OF BILAYER HETEROJUNCTION ORGANIC SOLAR CELL USING RHODOMYRTUS TOMENTOSA (AITON) HASK AND IXORA COCCINEA L DYE. <b>2016</b> , 78,	1
639	Conductivity Measurements. <b>2016</b> ,	
638	Systematic Assessment of Carbon Emissions from Renewable Energy Access to Improve Rural Livelihoods. <b>2016</b> , 9, 1086	7
637	Intrinsic Delocalization during the Decay of Excitons in Polymeric Solar Cells. <b>2016</b> , 8,	
636	Homogeneous PCBM layers fabricated by horizontal-dip coating for efficient bilayer heterojunction organic photovoltaic cells. <b>2016</b> , 24, A1321-A1335	8
635	Photo-enhanced polymer memory device based on polyimide containing spiropyran. <b>2016</b> , 12, 537-544	5
634	Fullerene-Free Polymer Solar Cells with over 11% Efficiency and Excellent Thermal Stability. <b>2016</b> , 28, 4734-9	1507
633	Regioregular PolythiophenePorphyrin Supramolecular Copolymers for Optoelectronic Applications. <b>2016</b> , 217, 445-458	11
632	Novel solution-processable functional polyimide/ZrO <sub>2</sub> hybrids with tunable digital memory behaviors. <b>2016</b> , 7, 4873-4880	8
631	Solar energy integration into advanced building design for meeting energy demand and environment problem. <b>2016</b> , 40, 1293-1300	45

630	Design directed self-assembly of donor-acceptor polymers. <b>2016</b> , 52, 10938-47	73
629	Improved All-Polymer Solar Cell Performance by Using Matched Polymer Acceptor. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5669-5678	15.6 98
628	Layer-by-Layer Processed Organic Solar Cells. <b>2016</b> , 6, 1600414	68
627	Semitransparent Inverted Organic Solar Cells Using an Oxide/metal/oxide Transparent Anode. <b>2016</b> , 29, 547-551	3
626	Organic field effect transistors for explosive and radiation dosimetry applications. <b>2016</b> ,	
625	Fabrication of highly reproducible polymer solar cells using ultrasonic substrate vibration posttreatment. <b>2016</b> , 6, 045502	16
624	Spontaneous bilayer phase separations of spin-coated polymer blend thin films: A neutron reflectivity study. <b>2016</b> , 24, 1105-1110	2
623	Molecular design for tuning electronic structure of $\pi$ -conjugated polymers containing fused dithienobenzimidazole units. <b>2016</b> , 107, 191-199	3
622	Influence of organic active layer morphology on plasmonic light-trapping. <b>2016</b> ,	1
621	Electrically bistable and non-volatile memory devices based on p-toluenesulfonic-doped poly(triphenylamine). <b>2016</b> , 6, 27640-27647	1
620	Transport of Excited Charge Carriers in Conjugated Polymers. <b>2016</b> , 5, R3096-R3099	
619	Optical absorption and electrical properties of enhanced efficiency in organic solar cells as interfacial layer with Au NPs. <b>2016</b> , 217, 117-122	15
618	Design and application of carbon nanomaterials for photoactive and charge transport layers in organic solar cells. <b>2016</b> , 3, 8	24
617	Design of highly soluble PCDTBTBT-type conjugated polymers for organic solar cells. <b>2016</b> , 26, 248-250	7
616	Effect of Triplet State on the Lifetime of Charge Separation in Ambipolar D-A1-A2 Organic Semiconductors. <b>2016</b> , 120, 11338-11349	22
615	Toward Better Efficiency of Air-Stable Polyazomethine-Based Organic Solar Cells Using Time-Resolved Photoluminescence and Light-Induced Electron Spin Resonance as Verification Methods. <b>2016</b> , 120, 11415-11425	18
614	$\pi$ -Conjugated phospholes and their incorporation into devices: components with a great deal of potential. <b>2016</b> , 45, 5296-310	150
613	Synthesis and characterization of pendant phenyl ester-substituted thiophene based copolymers. <b>2016</b> , 8, 15-22	1

612	Roll to roll compatible fabrication of inverted organic solar cells with a self-organized charge selective cathode interfacial layer. <b>2016</b> , 4, 5032-5038	44
611	Influence of alkyl side-chain length on the carrier mobility in organic semiconductors: herringbone vs. $\pi\pi$ stacking. <b>2016</b> , 4, 4546-4555	64
610	$\text{FeCl}_3\cdot 6\text{H}_2\text{O}$ -mediated reaction of [60]fullerene with amidoximes. <b>2016</b> , 72, 2476-2480	7
609	Synthesis, characterization, and photovoltaic applications of donor-acceptor alternating and random copolymers based on a ladder-type nonacyclic structure. <b>2016</b> , 108, 113-121	3
608	Performance of organic photovoltaics using an ytterbium trifluoride n-type buffer layer. <b>2016</b> , 12, 301-307	1
607	Activity and stability performance of multifunctional catalyst (Ni/CaO and Ni/Ca <sub>12</sub> Al <sub>14</sub> O <sub>33</sub> CaO) for bio-hydrogen production from sorption enhanced biogas steam reforming. <b>2016</b> , 41, 7318-7331	33
606	High-Performance Polymer Solar Cells Enabled by Copper Nanoparticles-Induced Plasmon Resonance Enhancement. <b>2016</b> , 120, 8900-8906	32
605	Fullerene applications in fuel cells: A review. <b>2016</b> , 41, 17944-17959	68
604	Intermixing behaviors of PCBM with CuPc on Au(1 1 1) surface. <b>2016</b> , 661, 215-218	1
603	All thermal-evaporated surface plasmon enhanced organic solar cells by Au nanoparticles. <b>2016</b> , 39, 71-76	12
602	Effect of heterocycles on field-effect transistor performances of donor-acceptor-donor type small molecules. <b>2016</b> , 661, 107-113	12
601	Engineering organic/inorganic alumina-based films as dielectrics for red organic light emitting transistors. <b>2016</b> , 616, 408-414	6
600	Initiator-free crosslinking of oxetane functionalized low bandgap polymers: an approach towards stabilized bulk heterojunction solar cells. <b>2016</b> , 4, 10347-10357	5
599	Synthesis and characterization of methanesulfonic acid doped poly(2-chloroaniline), study of its physical properties and ammonia gas sensing application. <b>2016</b> , 53, 768-772	4
598	Water processable Prussian blue/polyaniline:polystyrene sulfonate nanocomposite (PB/PANI:PSS) for multi-color electrochromic applications. <b>2016</b> , 4, 10293-10300	33
597	Fullerene-linked tetrabenzoporphyrins for solution-processed organic photovoltaics: flexible vs. rigid linkers. <b>2016</b> , 4, 15333-15342	13
596	Magnetic Alignment of Fullerene Nanowhiskers. <b>2016</b> , 143-152	1
595	Efficient Solution Processable Polymer Solar Cells Using Newly Designed and Synthesized Fullerene Derivatives. <b>2016</b> , 120, 19493-19503	15



594	Evidence of Delocalization in Charge-Transfer State Manifold for Donor:Acceptor Organic Photovoltaics. <b>2016</b> , 8, 21798-805	10
593	A wide-bandgap conjugated polymer for highly efficient inverted single and tandem polymer solar cells. <b>2016</b> , 4, 13251-13258	49
592	Symmetry and Topology of Graphenes. <b>2016</b> , 177-182	
591	Organic Field-Effect Transistors. <b>2016</b> , 171-222	
590	Correlation between morphology and device performance of pBTTT:PC71BM solar cells. <b>2016</b> , 155, 387-396	9
589	Effect of substituent groups on quinoxaline-based random copolymers on the optoelectronic and photovoltaic properties. <b>2016</b> , 101, 208-216	13
588	High-Speed, Flexible Electronics by Use of Si Nanomembranes. <b>2016</b> , 113-142	1
587	? Recent Advances in Shape Memory Polymers. <b>2016</b> , 415-432	
586	Photovoltaic cells based on ternary P3HT:PCBM:polymethine dye active layer transparent in the visible range of light. <b>2016</b> , 389, 419-427	14
585	Forthcoming perspectives of photoelectrochromic devices: a critical review. <b>2016</b> , 9, 2682-2719	103
584	Printed Organic Thin Film Solar Cells. <b>2016</b> , 201-250	1
583	Multifunctional polymetallaynes: properties, functions and applications. <b>2016</b> , 45, 5264-95	136
582	Novel Effects of Compressed CO Molecules on Structural Ordering and Charge Transport in Conjugated Poly(3-hexylthiophene) Thin Films. <b>2016</b> , 32, 10851-10860	6
581	Field-effect transistor structures on the basis of poly(3-hexylthiophene), fullerene derivatives [60]PCBM, [70]PCBM, and nickel nanoparticles. <b>2016</b> , 58, 1882-1890	3
580	High-Performance Low-Bandgap Polymer Solar Cells With Optical Microcavity Employing Ultrathin Ag Film Electrode. <b>2016</b> , 8, 1-12	2
579	Donor-Acceptor Interfaces by Engineered Nanoparticles Assemblies for Enhanced Efficiency in Plastic Planar Heterojunction Solar Cells. <b>2016</b> , 120, 26588-26599	9
578	Enhancing Photoinduced Charge Separation through Donor Moiety in Donor-Acceptor Organic Semiconductors. <b>2016</b> , 120, 25263-25275	19
577	2,1,3-Benzooxadiazole, thiophene and benzodithiophene based random copolymers for organic photovoltaics: thiophene versus thieno[3,2-b]thiophene as $\pi$ -conjugated linkers. <b>2016</b> , 40, 10455-10464	17

576 Molecular Spins in Biological Systems. **2016**, 51-77

575 Understanding the Role of Phenanthroline as Interlayer in Bulk Heterojunction Organic Photovoltaic Cells. **2016**, 1, 5638-5646 1

574 Doping effect on photoabsorption and charge-separation dynamics in light-harvesting organic molecule. **2016**, 6, 015305 4

573 Influences mass concentration of P3HT and PCBM to application of organic solar cells. **2016**, 776, 012012

572 Conjugated polymers with carbazole, fluorene, and ethylene dioxythiophene in the main chain and a pendant cyano group: Synthesis, photophysical, and electrochemical studies. **2016**, 54, 2774-2784 9

571 Structure-function relationships of fullerene esters in polymer solar cells: unexpected structural effects on lifetime and efficiency. **2016**, 40, 507-513

570 Plasmonic nanofocusing [grey holes for light. **2016**, 1, 297-330 19

569 D(A-A')<sub>2</sub> architecture: An efficient strategy to improve photovoltaic performance of small molecules for solution-processed organic solar cells. **2016**, 133, 153-160 12

568 The Hole Transport Characteristics of 1, 4, 5, 8, 9 and 11-Hexaazatriphenylene-Hexacarbonitrile by Blending. **2016**, 33, 027302 3

567 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

566 Resonance Energy Transfer Enables Efficient Planar Heterojunction Organic Solar Cells. **2016**, 120, 87-97 10

565 TiO<sub>2</sub>/EVOH based reactive interlayer in Surlyn for organic device encapsulation. **2016**, 3, 025302 9

564 Factors determining large observed increases in power conversion efficiency of P3HT:PCBM solar cells embedded with MoS<sub>2</sub> nanowires. **2016**, 212, 105-112 13

563 Effects of the active region thickness on the exciton generation mechanisms in polymer light emitting diodes. **2016**, 127, 1814-1816 4

562 NEXAFS spectroscopy of conjugated polymers. **2016**, 81, 532-554 47

561 Effect of single walled carbon nanotubes on the threshold voltage of dye based photovoltaic devices. **2016**, 481, 209-216 6

560 Enhanced efficiency of organic solar cells based on (MEH-PPV) with graphene and quantum dots. **2016**, 127, 2755-2760 15

559 Beyond efficiency: scalability of molecular donor materials for organic photovoltaics. **2016**, 4, 3677-3685 98

558	A high performance organic photovoltaic utilizing PEDOT:PSS and graphene oxide. <b>2016</b> , 6, 28599-28606	4
557	Synthesis, characterization, and electronic properties of novel Fc-DCM conjugated system; experimental and computational studies. <b>2016</b> , 811, 14-19	21
556	When the Sequence of Thin Film Deposition Matters: Examination of Organic-on-Organic Heterostructure Formation Using Molecular Beam Techniques and in Situ Real Time X-ray Synchrotron Radiation. <b>2016</b> , 120, 6165-6179	9
555	Novel fluoride-substituted donor/acceptor polymers containing benzodithiophene and quinoxaline units for use in low band gap solar cells. <b>2016</b> , 82, 334-346	3
554	Dependence on material choice of degradation of organic solar cells following exposure to humid air. <b>2016</b> , 54, 216-224	24
553	Linkage and donor-acceptor effects on resistive switching memory devices of 4-(N-carbazolyl)triphenylamine-based polymers. <b>2016</b> , 6, 28815-28819	20
552	First-principle study of the electronic structure and magnetism of lithium-adsorbed 3d transition-metal phthalocyanines. <b>2016</b> , 30, 1650090	2
551	Controlling the Polarity of Fullerene Derivatives to Optimize Nanomorphology in Blend Films. <b>2016</b> , 8, 4803-10	20
550	Molecular design of photorefractive polymers. <b>2016</b> , 48, 571-588	28
549	Controlling the morphology of the active layer by using additives and its effect on bulk hetero-junction solar cell performance. <b>2016</b> , 33, 678-682	9
548	Synthesis of donor-acceptor copolymer using benzoselenadiazole as acceptor for OTFT. <b>2016</b> , 6, 4070-4076	9
547	Investigation of morphological degradation of P3HT:PCBM bulk heterojunction films exposed to long-term host solvent vapor. <b>2016</b> , 4, 3743-3753	47
546	. <b>2016</b> , 6, 506-515	4
545	Naphthalene-diimide-incorporated conjugated polyelectrolyte interfacial modifier for the efficient inverted-type polymer solar cells. <b>2016</b> , 17, 17-24	2
544	Pt and Pt-Sn nanoparticles decorated conductive polymer-biowaste ash composite for direct methanol fuel cell. <b>2016</b> , 33, 1489-1499	16
543	Tuning the LUMO level of organic photovoltaic solar cells by conjugately fusing graphene flake: A DFT-B3LYP study. <b>2016</b> , 81, 108-115	12
542	Electrosynthesis and properties of poly(3-methylthiophene-pyrrole) composites. <b>2016</b> , 625, 165-172	1
541	Electro-synthesis, characterization and photoconducting performance of ITO/polybithiophene/MnO <sub>2</sub> composite. <b>2016</b> , 208, 29-38	4

540	Fully spray-coated organic solar cells on woven polyester cotton fabrics for wearable energy harvesting applications. <b>2016</b> , 4, 5561-5568	42
539	Deformation behavior features of composite of polystyrene with cesium sulfate filler during ultraviolet and X-ray irradiation. <b>2016</b> , 7, 66-73	3
538	Migration of an exciton in organic polymers driven by a nonuniform internal electric field. <b>2016</b> , 30, 171-175	4
537	Side chain effect on photovoltaic properties of dibenzo[a,c]phenazine based donor-acceptor polymers. <b>2016</b> , 29, 151-159	5
536	Review on recent advances in polythiophene based photovoltaic devices. <b>2016</b> , 57, 550-561	124
535	Exciplex Enhancement as a Tool to Increase OLED Device Efficiency. <b>2016</b> , 120, 2070-2078	64
534	Smart window application of a new hydrazide type SNS derivative. <b>2016</b> , 6, 1744-1749	30
533	Charge transport dependent high open circuit voltage tandem organic photovoltaic cells with low temperature deposited HATCN-based charge recombination layers. <b>2016</b> , 18, 4045-50	3
532	Methyl blue dyed polyethylene oxide films: Optical and electrochemical characterization and application as a single layer organic device. <b>2016</b> , 51, 213-222	7
531	Effect of CdSe nanoparticles incorporation on the performance of P3OT organic photovoltaic cells. <b>2016</b> , 41, 343-349	10
530	High-efficiency bulk heterojunction memory devices fabricated using organometallic halide perovskite:poly(N-vinylcarbazole) blend active layers. <b>2016</b> , 45, 484-8	28
529	Photoelectric properties of C60-poly(ethylene glycol) and poly(3,4-ethylenedioxythiophene) composite gel prepared via a low-temperature organic-solvent process. <b>2016</b> , 48, 163-168	4
528	Low-temperature, solution-processed aluminum-doped zinc oxide as electron transport layer for stable efficient polymer solar cells. <b>2016</b> , 605, 202-207	3
527	Light intensity dependence of External Quantum Efficiency of fresh and degraded organic photovoltaics. <b>2016</b> , 144, 273-280	27
526	Organometal halide perovskite solar cells: degradation and stability. <b>2016</b> , 9, 323-356	1188
525	Effects of different formulation PEDOT:PSS hole transport layers on photovoltaic performance of organic solar cells. <b>2017</b> , 28, 947-951	5
524	Nonfullerene Polymer Solar Cells based on a Perylene Monoimide Acceptor with a High Open-Circuit Voltage of 1.3 V. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1603892	15.6 61
523	An easily prepared carbon quantum dots and employment for inverted organic photovoltaic devices. <b>2017</b> , 315, 621-629	25

522	Theoretical characterization on photoelectric properties of benzothiadiazole- and fluorene-based small molecule acceptor materials for the organic photovoltaics. <b>2017</b> , 23, 28	11
521	Flexible and Stretchable Microwave Microelectronic Devices and Circuits. <b>2017</b> , 64, 1881-1893	27
520	In situ space-resolved X-ray diffraction and time-resolved EDXD on efficient polymer-based photovoltaic devices: Microstructural properties and aging effects. <b>2017</b> , 32, 1969-1981	
519	Green science: Independent building technology to mitigate energy, environment, and climate change. <b>2017</b> , 73, 695-705	40
518	Abnormal strong burn-in degradation of highly efficient polymer solar cells caused by spinodal donor-acceptor demixing. <b>2017</b> , 8, 14541	223
517	The influence of matrix material on the spectral dependence of the photosensitivity of polymer nanocomposites. <b>2017</b> , 642, 63-73	
516	Optoelectronic properties of four azobenzene-based iminopyridine ligands for photovoltaic applicationPeer review under responsibility of Taibah University.View all notes. <b>2017</b> , 11, 930-938	6
515	Naphthobischalcogenadiazole Conjugated Polymers: Emerging Materials for Organic Electronics. <b>2017</b> , 29, 1605218	72
514	Comparative charge transfer studies in nonmetallated and metallated porphyrin fullerene dyads. <b>2017</b> , 30, e3685	11
513	Applying direct heteroarylation synthesis to evaluate organic dyes as the core component in PDI-based molecular materials for fullerene-free organic solar cells. <b>2017</b> , 5, 11623-11633	58
512	Recent Advances in Dual-Functional Devices Integrating Solar Cells and Supercapacitors. <b>2017</b> , 1, 1700002	64
511	A novel wide bandgap conjugated polymer (2.0 eV) based on bithiazole for high efficiency polymer solar cells. <b>2017</b> , 34, 556-561	30
510	Influence of high energy ion irradiation on fullerene derivative (PCBM) thin films. <b>2017</b> , 396, 5-10	3
509	Elucidation of hierarchical metallophthalocyanine buffer layers in bulk heterojunction solar cells. <b>2017</b> , 7, 11304-11311	4
508	Determining Material-Specific Morphology of Bulk-Heterojunction Organic Solar Cells Using AFM Phase Imaging. <b>2017</b> , 121, 9173-9180	14
507	The influence of the push-pull effect and a $\pi$ -conjugated system in conversion efficiency of bis-chalcone compounds in a dye sensitized solar cell. <b>2017</b> , 1143, 42-48	25
506	Formation of Hot Excitons, Annealing, and Relaxation in Conjugated Polymers under an External Optical Pulse. <b>2017</b> , 121, 8731-8737	
505	Conducting polymers revisited: applications in energy, electrochromism and molecular recognition. <b>2017</b> , 21, 2489-2515	52

- 504 Control of molecular doping in conjugated polymers by thermal annealing. **2017**, 47, 139-146 15
- 503 First-Principle Study on the Effect of Pi-Spacers on Small Molecule Acceptors: Quantum Design of Organic Solar Cells and NLO Compounds. **2017**, 28, 2419-2431 2
- 502 Indacenodithiophene: a promising building block for high performance polymer solar cells. **2017**, 5, 10798-10814 15
- 501 Facile Approach to Perylenemonoimide with Short Side Chains for Nonfullerene Solar Cells. **2017**, 82, 5926-5931 16
- 500 Molecular engineering to improve carrier lifetimes for organic photovoltaic devices with thick active layers. **2017**, 47, 57-65 5
- 499 Synthesis and photovoltaic properties of carbazole-substituted fullerene derivatives. **2017**, 41, 4702-4706 3
- 498 Inactivation possibility of pyrene by C 20 fullerene via cycloaddition reactions: A theoretical study. **2017**, 1112, 37-45 10
- 497 Generation of Low-Dimensional Architectures through the Self-Assembly of Pyromellitic Diimide Derivatives. **2017**, 2, 1672-1678 4
- 496 Organic Solar Cells: Extraction of Physical Parameters by Means of Markov Chain Monte Carlo Techniques. **2017**, 7, 1098-1104 4
- 495 Single phase, high hole mobility Cu<sub>2</sub>O films as an efficient and robust hole transporting layer for organic solar cells. **2017**, 5, 11055-11062 47
- 494 Development and characterization of a flexible electrochromic device based on polyaniline and enzymatically synthesized poly (gallic acid). **2017**, 223, 43-48 15
- 493 Studies on some metal complexes of a quinoxaline based unsymmetrical ONNO donor ligand. **2017**, 127, 1845-1862 5
- 492 Efficient ternary organic solar cells based on immiscible blends. **2017**, 41, 130-136 5
- 491 Nanotexturing of Conjugated Polymers via One-Step Maskless Oxygen Plasma Etching for Enhanced Tunable Wettability. **2017**, 33, 6885-6894 20
- 490 Charge-Gating Dibenzothiophene-S,S-dioxide Bridges in Electron Donor-Bridge-Acceptor Conjugates. **2017**, 121, 13557-13569 16
- 489 Regular and red-shifted fluorescence of the donor-acceptor compound 5-(1H-pyrrole-1-yl)thiophenecarbonitrile (TCN) is efficiently quenched by internal modes of thiophene. **2017**, 19, 13951-13959 2
- 488 High-tech functional polymers designed for applications in organic electronics. **2017**, 145, 150-156 8
- 487 Morphology control enables thickness-insensitive efficient nonfullerene polymer solar cells. **2017**, 1, 2057-2064 37

486	Effect of multicomponent fouling during microfiltration of natural surface waters containing nC60 fullerene nanoparticles. <b>2017</b> , 3, 744-756	3
485	Tuning molecule diffusion to control the phase separation of the p-DTS(FBTTh2)2/EP-PDI blend system via thermal annealing. <b>2017</b> , 5, 6842-6851	11
484	Photo-induced characteristic study of the smallest fullerene fragment, 1,6,7,10-tetramethylfluoranthene as an acceptor. <b>2017</b> , 41, 5836-5845	8
483	In situ characterization methods for evaluating microstructure formation and drying kinetics of solution-processed organic bulk-heterojunction films. <b>2017</b> , 32, 1855-1879	13
482	NMR study of phthalide-type poly(phenylene)s. Symmetry and additivity. <b>2017</b> , 55, 958-966	2
481	Visible-Light Photoinduced Electron Transfer Promoted by Cucurbit[8]uril-Enhanced Charge Transfer Interaction: Toward Improved Activity of Photocatalysis. <b>2017</b> , 9, 22635-22640	26
480	Effect of TiO <sub>2</sub> modification with amino-based self-assembled monolayer on inverted organic solar cell. <b>2017</b> , 422, 1129-1138	25
479	Hybrid Photovoltaics ¶from Fundamentals towards Application. <b>2017</b> , 7, 1700248	23
478	Hybrid organic/inorganic nanolaminate structures with enhanced tribo-mechanical properties for optical applications. <b>2017</b> , 315, 399-407	9
477	High-Performance Nonfullerene Polymer Solar Cells based on Imide-Functionalized Wide-Bandgap Polymers. <b>2017</b> , 29, 1606396	135
476	An H-shaped, small molecular non-fullerene acceptor for efficient organic solar cells with an impressive open-circuit voltage of 1.17 V. <b>2017</b> , 1, 1600-1606	28
475	Zirconium oxide films: deposition techniques and their applications in dye-sensitized solar cells. <b>2017</b> , 21, 2531-2545	6
474	Fabrication of non-fullerene P3HT/Agx-TiO <sub>2</sub> based polymer solar cells with high open circuit voltage. <b>2017</b> , 708, 1184-1194	10
473	Highly Efficient Red Organic Light-Emitting Transistors (OLETs) on High-k Dielectric. <b>2017</b> , 4, 800-805	24
472	Recent progress in piezo-phototronics with extended materials, application areas and understanding. <b>2017</b> , 32, 053002	14
471	Rational Design of High-Performance Wide-Bandgap (¶ eV) Polymer Semiconductors as Electron Donors in Organic Photovoltaics Exhibiting High Open Circuit Voltages (¶ V). <b>2017</b> , 38, 1600614	16
470	Design and construction of ultra-relativistic collision PV panel and its application into building sector to mitigate total energy demand. <b>2017</b> , 9, 147-154	25
469	Donor-acceptor polymer for the design of All-Solid-State dye-sensitized solar cells. <b>2017</b> , 696, 914-922	27

- 468 Charge Carrier Mobilities and Singlet Fission Dynamics in Thienoquinoidal Compounds. **2017**, 121, 22587-22596
- 467 Molecular doping in organic semiconductors: fully solution-processed, vacuum-free doping with metal-organic complexes in an orthogonal solvent. **2017**, 5, 12023-12030 41
- 466 Molecular design of novel fullerene-based acceptors for enhancing the open circuit voltage in polymer solar cells. **2017**, 111, 410-418 2
- 465 Evaluation of photovoltaic properties and effective conjugated length of DTTTD-based polymers as donor in BHJ solar cells; quantum chemical approach. **2017**, 126, 162-176 9
- 464 Charge transport, optical and nonlinear optical properties of (hbox {CF}\_{3})-substituted acene compounds: a DFT study. **2017**, 136, 1 3
- 463 Thick Film Polymer Solar Cells Based on Naphtho[1,2-c:5,6-c]bis[1,2,5]thiadiazole Conjugated Polymers with Efficiency over 11%. **2017**, 7, 1700944 115
- 462 Enhanced Photovoltaic Performance of Tetrazine-Based Small Molecules with Conjugated Side Chains. **2017**, 5, 8684-8692 7
- 461 Cyanopyridone flanked the tetraphenylethylene to generate an efficient, three-dimensional small molecule non-fullerene electron acceptor. **2017**, 1, 2511-2518 24
- 460 Monte Carlo simulation of temperature effect on the electron mobility and diffusion coefficient in fullerene-C60 bulk organic semiconductor. **2017**, 182, 57-60 4
- 459 Enhancing doping efficiency by improving host-dopant miscibility for fullerene-based n-type thermoelectrics. **2017**, 5, 21234-21241 56
- 458 Functionalized 2D-MoS-Incorporated Polymer Ternary Solar Cells: Role of Nanosheet-Induced Long-Range Ordering of Polymer Chains on Charge Transport. **2017**, 9, 34111-34121 24
- 457 Small compounds based on 2,7-silafluorene and 4,7-di (2?-thienyl) for heterojunction organic solar cells: DFT study. **2017**, 14, 2167-2176 2
- 456 Local electrical properties of PTB7 film. **2017**, 4, 4561-4566
- 455 Density functionalized [Ru(NO)(Salen)(Cl)] complex: Computational photodynamics and in vitro anticancer facets. **2017**, 19, 363-374 33
- 454 Simultaneous Increase in Open-Circuit Voltage and Efficiency of Fullerene-Free Solar Cells through Chlorinated Thieno[3,4-b]thiophene Polymer Donor. **2017**, 2, 1971-1977 45
- 453 Charge transfer properties of diphenyl substituted cyclopentadithiophene organic semiconductors: The role of fluorine and malonitrile substitutions and crystal ordering. **2017**, 50, 130-137 8
- 452 Self-organization of amino-acid-derived NDI assemblies into a nanofibrillar superstructure with humidity sensitive n-type semiconducting properties. **2017**, 53, 9713-9716 10
- 451 Pressure effects on interfacial surface contacts and performance of organic solar cells. **2017**, 122, 205501 7



450	Bispentafluorophenyl-Containing Additive: Enhancing Efficiency and Morphological Stability of Polymer Solar Cells via Hand-Grabbing-Like Supramolecular Pentafluorophenyl-Fullerene Interactions. <b>2017</b> , 9, 43861-43870	21
449	Facile Low-Temperature Synthesis of Cellulose Nanocrystals Carrying Buckminsterfullerene and Its Radical Scavenging Property in Vitro. <b>2017</b> , 18, 4034-4040	10
448	Effect of gold nanoparticles in titanium oxide layer on the photovoltaic performance of inverted-type organic thin-film solar cells. <b>2017</b> , 653, 50-56	3
447	Dependence of the hybrid solar cell efficiency on the thickness of ZnO nanoparticle optical spacer interlayer. <b>2017</b> , 653, 254-259	5
446	Flexible diodes for radio frequency (RF) electronics: a materials perspective. <b>2017</b> , 32, 123002	43
445	Recent advances in the chemistry of vat dyes for organic electronics. <b>2017</b> , 5, 12298-12307	23
444	WITHDRAWN: Synthesis and optoelectronic properties of polymers possessing thieno[2,3-b]thiophene fused rings. <b>2017</b> ,	
443	High dielectric constant conjugated materials for organic photovoltaics. <b>2017</b> , 5, 24037-24050	79
442	Preparation of Gemini Surfactant/Conjugated Polymer Aggregates for Enhanced Fluorescence and Bioimaging Application. <b>2017</b> , 9, 23544-23554	20
441	Uniform electroactive fibre-like micelle nanowires for organic electronics. <b>2017</b> , 8, 15909	94
440	The influence of the end-group on the chiral self-assembly of all-conjugated block copolymers. <b>2017</b> , 8, 5666-5672	17
439	Vibronic coupling in organic semiconductors for photovoltaics. <b>2017</b> , 19, 18813-18830	47
438	The application of TD-DFT to excited states of a family of TPD molecules interesting for optoelectronic use. <b>2017</b> , 136, 1	1
437	Organic and Polymeric Semiconductors Enhanced by Noncovalent Conformational Locks. <b>2017</b> , 117, 10291-10318	377
436	Mixed Phenyl and Thiophene Oligomers for Bridging Nitronyl Nitroxides. <b>2017</b> , 82, 7764-7773	11
435	Properties of functional layers in inverted thin film organic solar cells. <b>2017</b> , 160, 241-256	40
434	Electroluminescence enhancement of glass/ITO/PEDOT:PSS/MEH-PPV/PEDOT:PSS/Al OLED by thermal annealing. <b>2017</b> , 1130, 327-332	16
433	Polypyrrole/TiO <sub>2</sub> composites for the application of photocatalysis. <b>2017</b> , 241, 1161-1169	70

432	Transparent Conductive ITO/Ag/ITO Electrode Deposited at Room Temperature for Organic Solar Cells. <b>2017</b> , 46, 306-311	17
431	A New Nonfullerene Electron Acceptor with a Ladder Type Backbone for High-Performance Organic Solar Cells. <b>2017</b> , 29, 1604964	240
430	Optimization of Organic Photovoltaic Cells. <b>2017</b> , 55-68	1
429	Flexible Thin-Film Electrodes on Porous Polyester Membranes for Wearable Sensors. <b>2017</b> , 19, 1600592	5
428	Polymers with alternating anthracene and phenylene building blocks linked by ethynylene and/or vinylene units: Studying structure-properties-relationships. <b>2017</b> , 55, 129-143	6
427	Effects of annealing on band gap and photoelectrical properties of spin coated poly (3-hexylthiophene) (P3HT) thin films. <b>2017</b> ,	
426	Resonance energy transfer between rhodamine dyes in saponite thin films: a step towards novel photofunctional nanohybrids. <b>2017</b> , 52, 263-273	2
425	Ultrafast optical pulse convertor caused by oscillations of the energy level structure in the conjugated polymer poly(p-phenylenevinylene). <b>2017</b> , 25, 20233-20242	
424	Recent Development on Narrow Bandgap Conjugated Polymers for Polymer Solar Cells. <b>2017</b> , 9,	32
423	Organic and Polymer Solar Cells. 134-157	
422	Biopolymer Composites in Photovoltaics and Photodetectors. <b>2017</b> , 459-486	13
421	Knowledge Domain and Emerging Trends in Organic Photovoltaic Technology: A Scientometric Review Based on CiteSpace Analysis. <b>2017</b> , 5, 67	41
420	A Review of Organic Photovoltaic Energy Source and Its Technological Designs. <b>2017</b> , 2017, 1-12	14
419	Synthesis and Conjoint Experimental-DFT Characterization of Some Pyrazolone Functionalized Dioxovanadium (V) Schiff Base Complexes. <b>2017</b> , 04,	2
418	Investigation of Degradation Mechanism of Pentacene/C60 Heterojunction Solar Cells. <b>2017</b> , 30, 569-575	2
417	Survey of Mechanical Durability of PV Backsheets. <b>2017</b> ,	5
416	Optical and dielectric properties for the determination of gap states of the polymer semiconductor: Application to photodegradation of organic pollutants. <b>2018</b> , 160, 218-226	16
415	Combined Ultramicrotomy and Atomic Force Microscopy Study of the Structure of a Bulk Heterojunction in Polymer Solar Cells. <b>2018</b> , 52, 105-111	

4 <sup>14</sup>	Functional phenylethynylene side arm poly(arylene ethynylene) conjugated polymers: optical and electrochemical behavior for enrichment of electronic applications. <b>2018</b> , 42, 5767-5773	1
4 <sup>13</sup>	Development of rice straw black liquor based porous carbon-poly(aniline-co-methoxy aniline) as supporting for electrochemical performances of alcohol oxidations. <b>2018</b> , 24, 3923-3935	4
4 <sup>12</sup>	A building-block approach to the development of an equivalent circuit model for organic photovoltaic cells. <b>2018</b> , 58, 207-215	9
4 <sup>11</sup>	Efficient CsF interlayer for high and low bandgap polymer solar cell. <b>2018</b> , 8, 025018	6
4 <sup>10</sup>	Role of Electron-Donating and Electron-Withdrawing Groups in Tuning the Optoelectronic Properties of Difluoroboron-Napthyridine Analogues. <b>2018</b> , 122, 4111-4120	34
4 <sup>09</sup>	Probing Organic Solar Cells with Grazing Incidence Scattering Techniques. <b>2018</b> , 191-238	3
4 <sup>08</sup>	A review of Fe <sub>3</sub> O <sub>4</sub> thin films: Synthesis, modification and applications. <b>2018</b> , 34, 1259-1272	18
4 <sup>07</sup>	Small Molecule Interlayers in Organic Solar Cells. <b>2018</b> , 8, 1702730	45
4 <sup>06</sup>	Effect of the Molecular Configuration of Perylene Diimide Acceptors on Charge Transfer and Device Performance. <b>2018</b> , 1, 833-840	13
4 <sup>05</sup>	The progress and prospects of non-fullerene acceptors in ternary blend organic solar cells. <b>2018</b> , 5, 206-221	100
4 <sup>04</sup>	Extraction of the Built-in Potential for Organic Solar Cells From Current-Voltage Characteristics. <b>2018</b> , 65, 184-190	11
4 <sup>03</sup>	Designing of Efficient Acceptors for Organic Solar Cells: Molecular Modelling at DFT Level. <b>2018</b> , 29, 359-365	30
4 <sup>02</sup>	Properties and ammonia gas sensing applications of different inorganic acid-doped poly(2-chloroanilines). <b>2018</b> , 75, 4469-4483	5
4 <sup>01</sup>	Functionalization of P3HT-Based Hybrid Materials for Photovoltaic Applications. <b>2018</b> , 107-177	0
4 <sup>00</sup>	Fused pentacyclic electron acceptors with four cis-arranged alkyl side chains for efficient polymer solar cells. <b>2018</b> , 6, 3724-3729	25
3 <sup>99</sup>	Full-Spectrum Solar-to-Heat Conversion Membrane with Interfacial Plasmonic Heating Ability for High-Efficiency Desalination of Seawater. <b>2018</b> , 1, 56-61	43
3 <sup>98</sup>	Two Thieno[3,2-b]thiophene-Based Small Molecules as Bifunctional Photoactive Materials for Organic Solar Cells. <b>2018</b> , 2, 1700179	10
3 <sup>97</sup>	Aqueous deposition of a semiconducting polymer by electrocoating. <b>2018</b> , 53, 332-338	2

- 396 Synthesis and supramolecular organization of chiral poly(thiophene)@magnetite hybrid nanoparticles. **2018**, 9, 3029-3036 9
- 395 Thieno[2,3-b]thiophene based polymers: Synthesis and optoelectronic properties. **2018**, 104, 72-80 6
- 394 Thiozonation and thiozonolysis of triatomic sulfur (S<sub>3</sub>) on the C<sub>70</sub> fullerene: a DFT study. **2018**, 29, 1299-1306 3
- 393 Naphthalenediimide (NDI) polymers for all-polymer photovoltaics. **2018**, 21, 377-390 118
- 392 Photoinduced Slowdown of Charge Carrier Transport and Phonon Emission in Conjugated Polymers. **2018**, 122, 15063-15069
- 391 Improving light trapping of polymer solar cell via doping a new array of triple core-shell spherical nanoparticles utilizing realistic modeling. **2018**, 163, 600-609 10
- 390 Generating a three-dimensional non-fullerene electron acceptor by combining inexpensive spiro[fluorene-9,9'-xanthene] and cyanopyridone functionalities. **2018**, 2, 1090-1096 18
- 389 In situ visualizable self-assembly, aggregation-induced emission and circularly polarized luminescence of tetraphenylethene and alanine-based chiral polytriazole. **2018**, 6, 4807-4816 63
- 388 Nanodiamond: a multitasking material for cutting edge solar cell application. **2018**, 22, 302-314 16
- 387 Chemical Insight Into Benzimidazole Containing Donor-Acceptor-Donor Type  $\pi$ -Conjugated Polymers: Benzimidazole As An Acceptor. **2018**, 58, 42-62 6
- 386 In situ polypyrrole polymerization enhances the photocatalytic activity of nanofibrous TiO<sub>2</sub>/SiO<sub>2</sub> membranes. **2018**, 29, 166-170 15
- 385 Optoelectronic performance comparison of new thiophene linked benzimidazole conjugates with diverse substitution patterns. **2018**, 188, 372-381 3
- 384 Effect of excessive Pb content in the precursor solutions on the properties of the lead acetate derived CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> perovskite solar cells. **2018**, 174, 478-484 25
- 383 Insight into the synthesis and fabrication of 5,6-alt-benzothiadiazole-based D $\pi$ A-conjugated copolymers for bulk-heterojunction solar cell. **2018**, 75, 2933-2951 5
- 382 AC/DC electrical conduction and dielectric properties of PMMA/PVAc/C<sub>60</sub> down-shifting nanocomposite films. **2018**, 1154, 239-247 5
- 381 Analytical evaluation of the charge carrier density of organic materials with a Gaussian density of states revisited. **2018**, 17, 61-67 7
- 380 Delocalization of  $\pi$  electrons and trapping action of ZnO nanoparticles in PPY matrix for hybrid solar cell application. **2018**, 1156, 633-644 16
- 379 Enhanced power-conversion efficiency in organic solar cells incorporating copolymeric phase-separation modulators. **2018**, 6, 3884-3894 20

- 378 Conjoint experimental and theoretical evaluation of pyrone-salicylic acid hydrazide copper(II) Schiff base complexes: their synthesis, SOD and electrochemical fronts. **2018**, 6, 55-80 12
- 377 Non-fullerene small molecule electron acceptors for high-performance organic solar cells. **2018**, 27, 990-1016 9
- 376 High-performance organic solar cells based on a small molecule with thieno[3,2-b]thiophene as bridge. **2018**, 53, 273-279 21
- 375 Exploring more effective polymer donors for the famous non-fullerene acceptor ITIC in organic solar cells by increasing electron-withdrawing ability. **2018**, 53, 308-314 19
- 374 Synthesis and characterization of new thiophene-benzimidazole-based electrochromes. **2018**, 42, 13745-13752 6
- 373 Nitric oxide functionalized molybdenum(0) pyrazolone Schiff base complexes: thermal and biochemical study. **2018**, 8, 35102-35130 17
- 372 Optimized Process of Fully Spray-Coated Organic Solar Cells on Woven Polyester Cotton Fabrics. **2018**, 5, 13745-13752 6
- 371 . **2018**, 4 4
- 370 . **2018**, 1 1
- 369 Hybrid renewable energy: future of the world. **2018**, 377, 012073 1
- 368 Mesomorphic Behavior in Silver(I) -(4-Pyridyl) Benzamide with Aromatic  $\pi$ -Stacking Counterions. **2018**, 11, 1 1
- 367 p-Doping Poly(3-hexylthiophene) in Solvent Mixtures. **2018**, 219, 1800146 2
- 366 Treating the Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) Surface with Hydroquinone Enhances the Performance of Polymer Solar Cells. **2018**, 10, 41578-41585 13
- 365 Zn Phthalocyanine Derivatives for Solution-Processed Small Molecule Organic Solar Cells. **2018**, 3, 13692-13699 3
- 364 2-(1,1-dioxidobenzo[b]thiophen-3(2H)-ylidene)malononitrile (BTD) Based Styryl Chromophores- Solvatochromic and Computational Investigation of Linear and NLO properties. **2018**, 3, 13654-13664 6
- 363 UV- and RIR-MAPLE: Fundamentals and Applications. **2018**, 275-308 4
- 362 Halogen-substituted fullerene derivatives for interface engineering of perovskite solar cells. **2018**, 6, 21368-21378 26
- 361 Theoretical Study of the Electronic and Optical Properties to Design Dye-Sensitivity for Using in Solar Cell Device. **2018**, 12, 645-650 3

- 360 Interface engineering of G-PEDOT: PSS hole transport layer via interlayer chemical functionalization for enhanced efficiency of large-area hybrid solar cells and their charge transport investigation. **2018**, 174, 743-756 15
- 359 Functional Electronic Inks. **2018**, 11-52
- 358 Nature and Technoenergy. **2018**, 251-280
- 357 Determining addition pathways and stable isomers for CF functionalization of endohedral Gd@C. **2018**, 5, 180588 3
- 356 Self-assembly of a redox-active bolaamphiphile into supramolecular vesicles. **2018**, 16, 6886-6889 6
- 355 Polypyrrole-Fe<sub>2</sub>O<sub>3</sub> Nanocomposites with High Dielectric Constant: In Situ Chemical Polymerisation. **2018**, 26, 233-241 6
- 354 Microstructure design using graphs. **2018**, 4, 8
- 353 Low-Voltage, Printed, All-Polymer Integrated Circuits Employing a Low-Leakage and High-Yield Polymer Dielectric. **2018**, 4, 1800340 25
- 352 Synthesis of Thiophene S,S-dioxide Based Acenes via Diels-Alder Reaction of Isobenzofurans with Benzothiophene S,S-dioxides. **2018**, 3, 9409-9413 4
- 351 Photovoltaics and Nanotechnology as Alternative Energy. **2018**, 211-241 1
- 350 Electron-poor arylenediimides. **2018**, 5, 2254-2276 69
- 349 Synthesis and characterizations of Cu<sub>2</sub>ZnSnS<sub>4</sub> nanoparticles/carbon nanotube composite as an efficient absorber material for solar cell application. **2018**, 2
- 348 High-performance solution-based CdS-conjugated hybrid polymer solar cells.. **2018**, 8, 18051-18058 21
- 347 High-Performance Polymer Solar Cell with Single Active Material of Fully Conjugated Block Copolymer Composed of Wide-Band gap Donor and Narrow-Band gap Acceptor Blocks. **2018**, 10, 18974-18983<sup>45</sup>
- 346 Enhanced internal quantum efficiency of organic light-emitting diodes: A synergistic effect. **2018**, 364, 577-587 4
- 345 Roles of Interfacial Tension in Regulating Internal Organization of Low Bandgap Polymer Bulk Heterojunction Solar Cells by Polymer Additives. **2018**, 5, 1800435 9
- 344 Roll-to-Roll fabrication of ITO thin film for flexible optoelectronics applications: The role of post-annealing. **2018**, 88, 51-56 15
- 343 A new polymer field effect transistor based on fluorene derivative with fused furan rings. **2018**, 135, 46865 0

342	DFT/TD-DFT study on halogen doping and solvent contributions to the structural and optoelectronic properties of poly[3,6-carbazole] and poly[indolo(3,2-b)-carbazole]. <b>2018</b> , 29, 1775-1796	4
341	Photoinduced charge transfer by one and two-photon absorptions: physical mechanisms and applications. <b>2018</b> , 20, 19720-19743	23
340	Molecular Materials in Optoelectronics and Photovoltaic Devices. <b>2018</b> , 365-380	
339	Using graphs to quantify energetic and structural order in semicrystalline oligothiophene thin films. <b>2018</b> , 3, 853-867	5
338	Modelling of Organic Photovoltaics. <b>2018</b> , 141-175	1
337	Electrical conductivity enhancement and wettability modification of (PDDA/PEDOT:PSS) <sub>n</sub> multilayer film. <b>2018</b> , 664, 33-40	5
336	Suppressing the Surface Recombination and Tuning the Open-Circuit Voltage of Polymer/Fullerene Solar Cells by Implementing an Aggregative Ternary Compound. <b>2018</b> , 10, 28803-28811	13
335	Solar Cells Based on Sol-Gel Films. <b>2018</b> , 2555-2572	
334	Recent Developments in Graphene/Polymer Nanocomposites for Application in Polymer Solar Cells. <b>2018</b> , 10,	76
333	Self-diffusion measurements in In <sub>2</sub> O <sub>3</sub> isotopic heterostructures: Oxygen vacancy energetics. <b>2018</b> , 61, 1	2
332	Surface plasmon resonance effect of silver nanoparticles on the enhanced efficiency of inverted hybrid organic/inorganic solar cell. <b>2018</b> , 27, 1850017	4
331	Analytical modelling of organic solar cells with scattering interface. <b>2018</b> , 168, 747-753	3
330	The preparation of oleylamine modified micro-size sphere silver particles and its application in crystalline silicon solar cells.. <b>2018</b> , 8, 16866-16872	5
329	Electrical Conductivity of Nanocomposites Based on Low-Density Polyethylene and Cu <sub>2</sub> S Nanoparticles. <b>2018</b> , 54, 32-37	0
328	Impact of excess lead on the stability and photo-induced degradation of lead halide perovskite solar cells. <b>2018</b> , 59, 107-112	13
327	Magnetoconductance Study on Nongeminate Recombination in Solar Cell Using Poly(3-hexylthiophene) and [6,6]-Phenyl-C-butyric Acid Methyl Ester. <b>2018</b> , 3, 9369-9377	7
326	Polyelectrolyte interlayers with a broad processing window for high efficiency inverted organic solar cells towards mass production. <b>2018</b> , 6, 17662-17670	10
325	Förster Resonance Energy Transfer Drives Higher Efficiency in Ternary Blend Organic Solar Cells. <b>2018</b> , 1, 4874-4882	27

324	Photophysical and photoconductive aspects of donor-acceptor low band gap conjugated copolymer. <b>2018</b> , 84, 813-820	4
323	Rise of Conjugated Poly-yne and Poly(Metalla-yne): From Design Through Synthesis to Structure-Property Relationships and Applications. <b>2018</b> , 118, 8474-8597	105
322	Above 10% efficiency earth-abundant Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> solar cells by introducing alkali metal fluoride nanolayers as electron-selective contacts. <b>2018</b> , 51, 597-603	15
321	A Rational Design and Synthesis of Cross-Conjugated Small Molecule Acceptors Approaching High-Performance Fullerene-Free Polymer Solar Cells. <b>2018</b> , 30, 4331-4342	16
320	Visible and Near-Infrared Imaging with Nonfullerene-Based Photodetectors. <b>2018</b> , 3, 1800104	60
319	Ab initio study of C <sub>20</sub> nanocluster effects on electrochemical properties of tetraphenylporphyrin. <b>2018</b> , 22, 640-645	1
318	Indoor-type photovoltaics with organic solar cells through optimal design. <b>2018</b> , 159, 306-313	54
317	Recent Advances in Morphology Optimization for Organic Photovoltaics. <b>2018</b> , 30, e1800453	136
316	3.17 Photonic Energy Production. <b>2018</b> , 707-754	3
315	Simultaneously Improved Efficiency and Stability in All-Polymer Solar Cells by a PIN Architecture. <b>2019</b> , 4, 2277-2286	89
314	Characterization of organic solar cells using semiconducting polymers with different bandgaps. <b>2019</b> , 39, 636-641	4
313	Ultrafast Relaxation Processes of Conjugated Polymer Nanoparticles in the Presence of Au Nanoparticles. <b>2019</b> , 14, 4681-4687	9
312	Optical band gap tuning and thermal properties of PMMA-ZnO sensitized polymers for efficient exciton generation in solar cell application. <b>2019</b> , 103, 104623	7
311	Tristep Mechanism To Explain the Illuminated CV Characteristic of an Organic Device. <b>2019</b> , 123, 17384-17389	1
310	Reducing the Nano-Scale Aggregation of Perylene Diimide Based Acceptor by Conjugating a Bridge with a Large Volume. <b>2019</b> , 10,	1
309	Overcoming Electrochemical Instabilities of Printed Silver Electrodes in All-Printed Ion Gel Gated Carbon Nanotube Thin-Film Transistors. <b>2019</b> , 11, 41531-41543	20
308	Sanitation and waste disposal systems. <b>2019</b> , 25-40	
307	Role of device architecture and AIOX interlayer in organic Schottky diodes and their interpretation by analytical modeling. <b>2019</b> , 126, 125501	5



306	A naphthalimide end capped imide-fused benzothiadiazole based small molecule acceptor for organic solar cells. <b>2019</b> , 43, 3565-3571	2
305	Time-resolved electrostatic force microscopy using tip-synchronized charge generation with pulsed laser excitation. <b>2019</b> , 2,	11
304	Direct Observation of Structure and Dynamics of Photogenerated Charge Carriers in Poly(3-hexylthiophene) Films by Femtosecond Time-Resolved Near-IR Inverse Raman Spectroscopy. <b>2019</b> , 24,	9
303	Ether-soluble hole-transporting polymers based on triphenylamine/phenothiazine moieties with shallow HOMO levels. <b>2019</b> , 10, 1367-1376	7
302	The Applications of Polymers in Solar Cells: A Review. <b>2019</b> , 11,	79
301	Non-fullerene organic solar cells based on a small molecule with benzo[1,2-c:4,5-c']dithiophene-4,8-dione as bridge. <b>2019</b> , 67, 175-180	7
300	Medium-Bandgap Conjugated Polymer Donors for Organic Photovoltaics. <b>2019</b> , 40, e1900074	25
299	The Different Outcomes of Electrochemical Copolymerisation: 3-Hexylthiophene with Indole, Carbazole or Fluorene. <b>2019</b> , 11,	1
298	The synthesis and study of structural, optical and electrical behaviours of tin oxide / polyaniline (( $\text{SnO}_2$ /PANI)) nanocomposites. <b>2019</b> , 93, 1	1
297	Earth-abundant transition metal and metal oxide nanomaterials: Synthesis and electrochemical applications. <b>2019</b> , 106, 100574	93
296	Theoretical Study of the Possibility of Functionalization of C <sub>20</sub> Fullerene with the Simplest Ketene CH <sub>2</sub> CO. <b>2019</b> , 60, 524-535	4
295	Exploring the electro-optical properties of conjugated polymers based on oligo-selenophene and oligo(3,4-ethylenedioxy-selenophene). <b>2019</b> , 33, e4962	4
294	Fabrication and photovoltaic properties of an invert-type organic thin-film solar cells incorporation of phosphorescent material into electron transport layer. <b>2019</b> ,	
293	Why are Hot Holes Easier to Extract than Hot Electrons from Methylammonium Lead Iodide Perovskite?. <b>2019</b> , 9, 1900084	30
292	Amine-Based Interfacial Engineering in Solution-Processed Organic and Perovskite Solar Cells. <b>2019</b> , 11, 16785-16794	8
291	Highly Conductive Nanocomposites Based on Doped Metal Oxides as Interlayer Materials for Organic/Polymer Solar Cells. <b>2019</b> , 457-476	1
290	Development of a Novel Nanocomposite Using Polypyrrole Grafted Chitosan-Decorated CDs with Improved Photocatalytic Activity under Solar Light Illumination. <b>2019</b> , 7, 9416-9421	14
289	Photo-Supercapacitors Based on Third-Generation Solar Cells. <b>2019</b> , 12, 3431-3447	20

288	A theoretical exploration on why the replacement of hexyl group by alkoxy carbonyl in P3HT could greatly improve the performance of non-fullerene organic solar cell. <b>2019</b> , 100, 160-167	1
287	Functional fluorinated polymer materials and preliminary self-healing behavior. <b>2019</b> , 10, 1993-1997	14
286	Room temperature ammonia gas sensing properties of polyaniline nanofibers. <b>2019</b> , 30, 8371-8380	16
285	Factors Controlling Open-Circuit Voltage Losses in Organic Solar Cells. <b>2019</b> , 1, 49-62	82
284	Materials for Photovoltaics: State of Art and Recent Developments. <b>2019</b> , 20,	112
283	The role of the third component in ternary organic solar cells. <b>2019</b> , 4, 229-242	244
282	Polarity tuning of carbon nanotube transistors by chemical doping for printed flexible complementary metal-oxide semiconductor (CMOS)-like inverters. <b>2019</b> , 147, 566-573	17
281	The story of conducting polymers for plastic electronics. <b>2019</b> , 68, 569-571	1
280	Synthesis of a Rod-rod Diblock Copolymer, Poly(3-hexylthiophene)-block-poly(furfuryl isocyanate), through the Anionic Polymerization with an Oxyanionic Macroinitiator. <b>2019</b> , 37, 866-874	1
279	Semiconductive Polymer-Doped PEDOT with High Work Function, Conductivity, Reversible Dispersion, and Application in Organic Solar Cells. <b>2019</b> , 7, 8206-8214	15
278	Oxygen-Induced Doping as a Degradation Mechanism in Highly Efficient Organic Solar Cells. <b>2019</b> , 2, 1943-1950	18
277	Synthesis, characterization and photovoltaic behaviours of peripheral and non-peripheral tetra-[4-(4-octylpiperazin-1-yl)phenoxy] substituted zinc(II), cobalt(II), copper(II) and indium(III) phthalocyanines. <b>2019</b> , 490, 35-44	5
276	Intermolecular n-Doping Nonconjugated Polymer Cathode Interfacial Materials for Organic Solar Cells. <b>2019</b> , 2, 2238-2245	10
275	Polymer Solar Cells-Interfacial Processes Related to Performance Issues. <b>2019</b> , 7, 61	40
274	Nonfullerene acceptors with a novel nonacyclic core for high-performance polymer solar cells. <b>2019</b> , 7, 3335-3341	5
273	Long-term thermally stable nanoconfining networks for efficient fully conjugated semicrystalline/amorphous diblock copolymer photovoltaics. <b>2019</b> , 69, 263-274	1
272	Room-temperature bonding of organic films using ultrathin Au intermediate layers for organic integrated optical devices. <b>2019</b> ,	
271	Green building technology. <b>2019</b> , 271-290	

270	High-efficiency non-halogenated solvent processable polymer/PCBM solar cells via fluorination-enabled optimized nanoscale morphology. <b>2019</b> , 7, 24992-25002	14
269	The role of cation and anion dopant incorporated into a ZnO electron transporting layer for polymer bulk heterojunction solar cells.. <b>2019</b> , 9, 37714-37723	4
268	Variation of Ammonium Persulfate Concentration Determines Particle Morphology and Electrical Conductivity in HCl Doped Polyaniline. <b>2019</b> , 599, 012002	5
267	Harvesting near- and far-field plasmonic enhancements from large size gold nanoparticles for improved performance in organic bulk heterojunction solar cells. <b>2019</b> , 66, 94-101	17
266	Electrochemical polymerization process and excellent electrochromic properties of ferrocene-functionalized polytriphenylamine derivative. <b>2019</b> , 163, 433-440	15
265	Effect of excessive Pb on the stability and performance of Pb-halide perovskite solar cells against photo-induced degradation. <b>2019</b> , 9, 189-193	1
264	Complexation of a Conjugated Polyelectrolyte and Impact on Optoelectronic Properties. <b>2019</b> , 8, 88-94	19
263	Fast response organic photodetectors with a thick photoconversion region and fullerene transport layer. <b>2019</b> , 91, 22-26	4
262	Phenothiazine-based small molecules for bulk heterojunction organic solar cells; variation of side-chain polarity and length of conjugated system. <b>2019</b> , 65, 232-242	14
261	Planar Benzo[1,2- b:4,5- b']dithiophene Derivatives Decorated with Nitronyl and Imino Nitroxides. <b>2019</b> , 84, 140-149	8
260	Neutron reflectometry and hard X-ray photoelectron spectroscopy study of the vertical segregation of PCBM in organic solar cells. <b>2019</b> , 191, 62-70	7
259	Controlling the Cyano-Containing A2 Segments in A2-A1-D-A1-A2 Type Non-Fullerene Acceptors to Combine with a Benzotriazole-Based p-Type Polymer: Same-Acceptor-Strategy for High VOC Organic Solar Cells. <b>2019</b> , 3, 1800332	21
258	Assembling Mesoscale-Structured Organic Interfaces in Perovskite Photovoltaics. <b>2019</b> , 31, e1806516	11
257	Air-Processed, Stable Organic Solar Cells with High Power Conversion Efficiency of 7.41. <b>2019</b> , 15, e1804671	14
256	Effects of trifluoromethyl substituents on interfacial and bulk polarization of polystyrene gate dielectrics. <b>2019</b> , 114, 023301	3
255	The progress of non-fullerene small molecular acceptors for high efficiency polymer solar cells. <b>2019</b> , 190, 83-97	23
254	Ammonium Ion Intercalated Tungsten Oxide Nanorods with High Photothermal Conversion Efficiency and Low Cytotoxicity. <b>2019</b> , 2019, 245-249	3
253	Fabrication and characterization of elastomeric semiconductive thiophene polymers by peroxide crosslinking. <b>2019</b> , 51, 257-263	7

252	Properties of NTCDA Thin Films on Ag(110): Scanning Tunneling Microscopy, Photoemission, Near-Edge X-ray Fine Structure, and Density Functional Theory Investigations. <b>2019</b> , 123, 379-386	5
251	Singlet/triplet exciton dissociation and charge recombination in donor-acceptor ThQs-C /PDIxCN complexes. <b>2019</b> , 40, 997-1004	6
250	Sustainable technology for energy and environmental benign building design. <b>2019</b> , 22, 130-139	19
249	Advanced Building Design. <b>2019</b> , 137-230	2
248	N-doped graphene /carbon hybrid aerogels for efficient solar steam generation. <b>2019</b> , 142, 13-19	98
247	Urinary tract anti-infectious potential of DFT-experimental composite analyzed ruthenium nitrosyl complex of N-dehydroacetic acid-thiosemicarbazide. <b>2019</b> , 31, 89-100	16
246	REALIZATION AND CHARACTERIZATION OF A NEW ORGANIC THIN FILM SEMICONDUCTOR. <b>2019</b> , 26, 1850127	8
245	An insight into the air stability of the benchmark polymer:fullerene photovoltaic films and devices: A comparative study. <b>2020</b> , 76, 105456	10
244	Synthesis, characterization and physicochemical studies of copolymers of aniline and 3-nitroaniline. <b>2020</b> , 77, 4469-4488	7
243	Synthesis and characterization of poly(pyrrole-co-2-nitrocinnamaldehyde) (PPNC), a new copolymer for solar cells applications. <b>2020</b> , 28, 265-272	2
242	Insight into the optoelectronic characteristics of diimide-based acceptors in organic solar cells by performing DFT calculation and molecular dynamics simulation. <b>2020</b> , 94, 107488	3
241	Real-Time Study on Structure Formation and the Intercalation Process of Polymer: Fullerene Bulk Heterojunction Thin Films. <b>2020</b> , 4, 1900508	1
240	Networked Conductive Polythiophene/Polyaniline Bottlebrushes with Modified Carbon Nanotubes As Hole Transport Layer in Organic Photovoltaics. <b>2020</b> , 49, 937-948	2
239	Study on energy level bending at heterojunction of solution-processed phthalocyanine thin film and n-Si by Kelvin probe force microscopy. <b>2020</b> , 78, 105599	1
238	Development of a Wireless Sensor Node for Building Information Management Systems. <b>2020</b> ,	1
237	Role of interface properties in organic solar cells: from substrate engineering to bulk-heterojunction interfacial morphology. <b>2020</b> , 4, 2863-2880	32
236	Shape control of plasmonic gold nanoparticles and its application to vacuum-free bulk hetero-junction solar cells. <b>2020</b> , 31, 22957-22965	2
235	Conducting Polymers for Optoelectronic Devices and Organic Solar Cells: A Review. <b>2020</b> , 12,	44

- 234 Implications of Trap-Assisted Nongeminate Charge Recombination on Time- and Frequency-Domain Photocurrent Degradation Signatures of Organic Solar Cells. **2020**, 124, 16838-16848 2
- 233 Tight binding models accurately predict band structures for copolymer semiconductors. **2020**, 22, 19659-19671 5
- 232 Unveiling Photovoltaic Performance Enhancement Mechanism of Polymer Solar Cells via Synergistic Effect of Binary Solvent Additives. **2020**, 4, 2000239 2
- 231 Hole (donor) and electron (acceptor) transporting organic semiconductors for bulk-heterojunction solar cells. **2020**, 2, 100042 25
- 230 ITO and graphene-covered Ag grids embedded in PET substrate by thermal roll imprinting for flexible organic solar cells. **2020**, 120, 105277 12
- 229 Circularly Polarized Luminescence and Tunable Helical Assemblies of Aggregation-Induced Emission Amphiphilic Polytriazole Carrying Chiral L-Phenylalanine Pendants. **2020**, 53, 6288-6298 16
- 228 Novel 13X Zeolite/PANI electrocatalyst for hydrogen and oxygen evolution reaction. **2020**, 45, 28337-28349 9
- 227 Effect of metalation on some graphene nanoribbons for potential application as donor in organic photovoltaic cells. **2020**, 31, 21923-21933 3
- 226 Influence of Heterogeneity on the Chiral Expression of Star-Shaped Conjugated Polymers. **2020**, 53, 9254-9263 6
- 225 Effect of ZnO ETL and MoO<sub>3</sub> HTL with PCDTBT:PC70BM-based BHJ organic solar cells. **2020**, 9, 245-252 2
- 224 Polycarbazole and its derivatives: progress, synthesis, and applications. **2020**, 27, 1 10
- 223 Dark and illuminated J(V) characteristics of thin layered bulk heterojunction P3HT:PCBM sandwich solar cells after thermal treatment. **2020**, 52, 1 3
- 222 Quinoidal bithienoisatin based semiconductors: Synthesis, characterization, and carrier transport property. **2020**, 1, 334-345 1
- 221 Benzoselenadiazole-core asymmetric D-A-A small molecule for solution processed bulk heterojunction organic solar cells. **2020**, 44, 12100-12111 3
- 220 Photovoltaic Characterization of Hybrid Bulk Heterojunction Solar Cell Incorporated Gold Nanoparticles Embedded in Active Layer. **2020**, 860, 34-41 1
- 219 Dipolar self-assembled monolayers grafted on ZnO for the tuning of electronic properties of the poly (3-hexylthiophene)- [6,6]-phenyl C61-butyric acid methylester blend. **2020**, 714, 138296 1
- 218 Structural and photophysical properties of PVK-F8BT copolymer thin films, with single walled carbon nanotubes: Synthesis, characterization and modeling. **2020**, 240, 118502 3
- 217 Polymer Electronics: To Be or Not to Be?. **2020**, 5, 2000144 18

216	Photosupercapacitors: A perspective of planar and flexible dual functioning devices. <b>2020</b> , 9, e377	2
215	Future needs and trends: influence of polymers on the environment. <b>2020</b> , 593-634	1
214	Synthesis of side-chain regioregular and main-chain alternating poly(bichalcogenophene)s and an ABC-type periodic poly(terchalcogenophene). <b>2020</b> , 11, 3836-3844	6
213	Air-stable N-type printed carbon nanotube thin film transistors for CMOS logic circuits. <b>2020</b> , 163, 145-153	19
212	Chiral expression of co-crystallizing poly(thiophene)-block-poly(selenophene) copolymers. <b>2020</b> , 11, 2715-2723	2
211	Hybrid Lead-Halide Polyelectrolytes as Interfacial Electron Extraction Layers in Inverted Organic Solar Cells. <b>2020</b> , 12,	2
210	Improved short-circuit current density in bulk heterojunction solar cells with reduced graphene oxide-germanium dioxide nanocomposite in the photoactive layer. <b>2020</b> , 254, 123448	10
209	Enhancement efficiency of poly (o-toluidine) ZnO solar cells by using metal oxide-assisted poly (styrenesulfonate) poly (o-toluidine) poly (3,4ethylenedioxythiophene) nanostructures. <b>2020</b> ,	
208	Thermal properties of gallium nitrideferrite/polypyrrole nanocomposites. <b>2020</b> ,	
207	Imide-functionalized acceptor-acceptor copolymers as efficient electron transport layers for high-performance perovskite solar cells. <b>2020</b> , 8, 13754-13762	14
206	Investigation on the Trap Signature in Organic Semiconductor Turmeric Film Through Current-Voltage Analysis. <b>2020</b> , 26, 265-272	2
205	Modulating the Optical Band Gap of Small Semiconducting Two-Dimensional Materials by Conjugated Polymers. <b>2020</b> , 36, 2574-2583	5
204	Porous Carbon Nanofoam Derived From Pitch as Solar Receiver for Efficient Solar Steam Generation. <b>2020</b> , 4, 1900098	10
203	High-Performance Pseudoplanar Heterojunction Ternary Organic Solar Cells with Nonfullerene Alloyed Acceptor. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909760	15.6 59
202	Single-material organic solar cells with fully conjugated electron-donor alkoxy-substituted bithiophene units and electron-acceptor benzothiadiazole moieties alternating in the main chain. <b>2020</b> , 8, 4124-4132	13
201	Micro-Grooved Pipe Design of Parabolic Trough by Metaheuristic Optimization: An Empirical Comparison. <b>2020</b> , 13, 449	1
200	Organic bulk heterojunction photovoltaics incorporating cyclopenteno[60]fullerene monoadducts as n-type materials display superior power conversion efficiency than with PC61BM. <b>2020</b> , 67, 430-436	
199	Three-component coupling reaction of the C60 fullerene, indole and propargyl bromide: a theoretical study. <b>2020</b> , 130, 75-90	1

198	Comparison of TiO <sub>2</sub> and ZnO electron selective layers on the inverted-type polymer solar cells. <b>2021</b> , 78, 3117-3129	3
197	Cu/graphene hybrid transparent conducting electrodes for organic photovoltaic devices. <b>2021</b> , 171, 341-349	10
196	A few layers of graphene sheets prepared by an electrochemical method enhance the performance of organic photovoltaic device. <b>2021</b> , 39, 1941-1944	2
195	Organic Solar Cells The Path to Commercial Success. <b>2021</b> , 11, 2002653	90
194	Development of conjugated polymers for organic flexible electronics. <b>2021</b> , 27-70	1
193	Theoretical insight on PTB7:PC71BM, PTB7-th:PC71BM and Si-PCPDTBT:PC71BM interactions governing blend nanoscale morphology for efficient solar cells. <b>2021</b> , 82, 105708	3
192	Dynamics of the sub-ambient gelation and shearing of solutions of P3HT and P3HT blends towards active layer formation in bulk heterojunction organic solar cells. <b>2021</b> , 17, 1642-1654	0
191	All small molecule ternary organic photovoltaic with two well compatible nonfullerene acceptors for minimizing energy loss. <b>2021</b> , 214, 110-118	5
190	Design Criteria for Horseshoe and Spiral-Based Interconnects for Highly Stretchable Electronic Devices. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2007445	15.6 3
189	The Influence of Space-Charge-Limited Current on the Dielectric Properties of Polycrystalline Films of Fullerite C <sub>60</sub> . <b>2021</b> , 66, 53-58	0
188	Layer-by-layer fabrication of organic photovoltaic devices: material selection and processing conditions. <b>2021</b> , 9, 14-40	21
187	Probing Bias-Induced Electron Density Shifts in Metal-Molecule Interfaces via Tip-Enhanced Raman Scattering. <b>2021</b> , 143, 1816-1821	2
186	Multi-junction Polymer Solar Cells. <b>2021</b> , 1817-1833	
185	Bathocuproine as a cathode interlayer for nonfullerene organic solar cells with efficiency over 17%.	3
184	Caged-electron states and split-electron states in the endohedral alkali C. <b>2021</b> , 23, 11837-11843	6
183	Optoelectrical Switching of Nonfullerene Acceptor Y6 and BPQD-Based Bulk Heterojunction Memory Device through Photoelectric Effect. <b>2021</b> , 7, 2001191	4
182	Nanomaterials; Applications; Implications and Management. <b>2021</b> , 23-45	1
181	Frequency and Temperature Effects on Dielectric Properties of PEDOT-VC Copolymer. <b>2021</b> , 229, 01054	



180	Structural, Electronic and Optical properties of (P3HT) <sub>n</sub> in context of Organic Solar Cells: DFT Based Approach. <b>2021</b> ,		0
179	Modeling and optimization of organic tandem photovoltaic solar cells using silver nanowires as electrode and interconnecting layer. <b>2021</b> , 93, 20202		
178	Low Band Gap Conjugated Semiconducting Polymers. <b>2021</b> , 6, 2000857		28
177	Effect and Mechanism of Solvent Properties on Solution Behavior and Films Condensed State Structure for the Semi-rigid Conjugated Polymers. <b>2021</b> , 39, 796-814		1
176	A Review on Encapsulation Technology from Organic Light Emitting Diodes to Organic and Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100151	15.6	47
175	Partially bio-based triarylamine-containing polyimides: Synthesis, characterization and evaluation in non-volatile memory device applications. <b>2021</b> , 147, 110327		1
174	Charge Trapping in Polymer Electrets with Highly Dilute Blended Arylamine Donors. <b>2021</b> , 3, 1656-1662		1
173	Interpretation of trap-assisted conduction with estimation of electrical parameters of thin indigo film-based semiconducting device. <b>2021</b> , 44, 1		2
172	Modulating the Magnetic Coupling in Paramagnetic Co Nanoparticles Embedded in Tris(8-hydroxyquinoline)aluminum for Spintronics Applications. <b>2021</b> , 4, 5240-5249		
171	Changes in the physical properties of low bandgap polymer after interaction with ionic liquids. <b>2021</b> , 25, 101227		2
170	Hydropower generation by transpiration from microporous alumina. <b>2021</b> , 11, 10954		2
169	Synergistic Effect of Dielectric Property and Energy Transfer on Charge Separation in Non-Fullerene-Based Solar Cells. <b>2021</b> , 60, 15054-15062		13
168	Computational and experimental investigations of a cyano group containing novel small molecule organic semiconductor. <b>2021</b> , 32, 14749		1
167	Synergistic Effect of Dielectric Property and Energy Transfer on Charge Separation in Non-Fullerene-Based Solar Cells. <b>2021</b> , 133, 15181-15189		0
166	Endocircular Li Carbon Rings. <b>2021</b> , 133, 16785-16790		
165	Endocircular Li Carbon Rings. <b>2021</b> , 60, 16649-16654		4
164	Design and fabrication of a semi-transparent solar cell considering the effect of the layer thickness of MoO/Ag/MoO transparent top contact on optical and electrical properties. <b>2021</b> , 11, 13079		3
163	Unraveling the Contribution of Residual Monomer to the Emission Spectra of Poly(3-hexylthiophene) Aggregates: Implications for Identifying H- and J-type Coupling. <b>2021</b> , 12, 5919-5924		1



162	Preparation of silver-nanoparticle-loaded C60-ethylenediamine adduct microparticles and their application to photoelectric conversion. <b>2021</b> , 14, 067003	0
161	Recent progress in small-molecule donors for non-fullerene all-small-molecule organic solar cells.	4
160	Optimizing the Thickness of Functional Layers of Polymer Solar Cells: Modeling and Experiment. <b>2021</b> , 57, 753-759	
159	Water effect on the morphology and magnetic properties of poly(3-hexylthiophene). <b>2021</b> , 9, 16-22	
158	Mode of action of the third component in ternary organic photovoltaic blend PBDB-T/ITIC:PC70BM revealed by EPR spectroscopy. <b>2021</b> , 277, 116783	3
157	Comparative Study of the Structural Properties for Thin and Thick ZnO Films Deposited on PPC Plastic Substrates. <b>2021</b> , 1963, 012074	
156	Effect of the Active Layer Thickness of Pentacene Thin Film Transistor; Illumination Effect. <b>2021</b> , 50, 5701-5712	
155	Engineering Dielectric Materials for High-Performance Organic Light Emitting Transistors (OLETs). <b>2021</b> , 14,	2
154	Review: materials and modelling for organic photovoltaic devices.	2
153	Nanoscale heterogeneous distribution of surface energy at interlayers in organic bulk-heterojunction solar cells. <b>2021</b> ,	5
152	Decatungstate-Photocatalyzed Radical Addition of 9-Substituted Fluorenes to [60]Fullerene: A Mechanistic Approach. <b>2021</b> , 2021, 4846-4850	0
151	Synthesis and electropolymerization of 3-arylthieno[3,2-b]thiophenes and triphenylamine based comonomers. <b>2021</b> , 389, 138688	4
150	Thermal Annealing Effect on the Surface Morphology and Efficiency of Photovoltaic Cells.	
149	Effects of the photoactive layer properties and current transmission mechanism on optical and electrical characteristics of organic photovoltaic. <b>2021</b> , 241, 166937	2
148	Threshold voltage control of carbon nanotube-based synaptic transistors via chemical doping for plasticity modulation and symmetry improvement. <b>2021</b> , 184, 295-302	1
147	Fabrication and assessment of an electrochromic and radar-absorbent dual device based on the new smart polythiophene-based/RGO/Fe3O4 ternary nanocomposite. <b>2021</b> , 422, 130159	6
146	Two-dimensional materials and their derivatives for high performance phase change materials: emerging trends and challenges. <b>2021</b> , 42, 845-870	9
145	Effect of polyaniline on the structural, conductivity, and dielectric properties of chitosan. <b>2021</b> , 2, 100129	1

144	Photophysics and solar cell application of a benzodithiophene conjugated polymer containing cyclometalated platinum units. <b>2021</b> , 8, 100060	1
143	Fullerenes in Photovoltaics. <b>2021</b> , 1-38	
142	Atomistic electronic structure in the single-chain limit of organic conductors. <b>2021</b> , 133, 27004	
141	Single particle dual plasmonic effect for efficient organic solar cells. 1	0
140	The effect of polymer concentration in chloroform on P3HT:PCBM nanoparticulate organic photovoltaic device performance. <b>2021</b> , 1763, 012073	
139	New luminescent tetracoordinate boron complexes: an in-depth experimental and theoretical characterisation and their application in OLEDs. <b>2021</b> , 8, 3960-3983	3
138	Printed solid state electrolyte carbon nanotube thin film transistors for sub-1 V fully printed flexible CMOS inverters.	7
137	Applications of Metal Containing Polymers in Organic Solar Cells. 159-189	2
136	Molecular and Supramolecular Conjugated Polymers for Electronic Applications. 2225-2262	6
135	Encyclopedia of Sustainability Science and Technology. <b>2012</b> , 7553-7584	2
134	Organic Solar Cells: A Review. <b>2020</b> , 81-106	1
133	Fabrication and Characterization of Self-Organized Nanostructured Organic Thin Films and Devices. <b>2008</b> , 263-300	2
132	Scanning Probe Microscopy on Polymer Solar Cells. <b>2008</b> , 183-215	1
131	Ultrafast Photophysics of Organic Semiconductor Junctions. <b>2009</b> , 183-212	8
130	Solar Energy Conversion [Natural to Artificial]. <b>2011</b> , 219-236	1
129	Introduction. <b>2011</b> , 1-32	3
128	Photovoltaic Properties of Photosensitive in Wide Spectral Region Heterostructures. <b>2002</b> , 311-314	2
127	Ultra-fast, economical and room temperature operating ammonia sensor based on polyaniline/iron oxide hybrid nanocomposites. <b>2019</b> , 76, 6153-6167	4

126	Solution-processed Ga-TiO <sub>2</sub> electron transport layer for efficient inverted organic solar cells. <b>2020</b> , 274, 128003	3
125	Chapter 15:Solid-state NMR of Organic Electronics. <b>2019</b> , 325-362	2
124	Organic planar heterojunction solar cell optimisation with ITO obtained by ion beam sputtering. <b>2006</b> , 36, 289-294	5
123	Origin of depressed fill factor in organic solar cells due to S-shape current-voltage characteristics. <b>2020</b> , 127, 053101	2
122	Recent advances in the design, synthesis and study of covalent conjugated oligomer-C <sub>60</sub> ensembles. <b>2009</b> , 74, 857-886	3
121	Charge Transport and Injection in Amorphous Organic Semiconductors. <b>2009</b> , 61-109	2
120	Bulk Heterojunction Morphology Control and Characterization. <b>2014</b> , 317-366	2
119	Bulk Heterojunction Morphology Control and Characterization. <b>2014</b> , 335-384	3
118	Slowup of Bimolecular Recombination in Organic Polymer Solar Cells. <b>2005</b> , 107, 377-380	11
117	Electronic and Photovoltaic Properties of p-Si/PCBM:MEH-PPV Organic-Inorganic Hybrid Photodiode. <b>2011</b> , 119, 890-894	7
116	Photovoltaic and optical properties of a polymer-PbS nanocomposite. <b>2005</b> , 8, 54-59	4
115	Equivalent Circuit Modification for Organic Solar Cells. <b>2015</b> , 06, 153-160	5
114	Preparation and Characterization of ZnSe/EVA Nanocomposites for Photovoltaic Modules. <b>2015</b> , 03, 215-224	3
113	Fluorene-Based Conjugated Copolymers Containing Hexyl-Thiophene Derivatives for Organic Thin Film Transistors. <b>2007</b> , 28, 1945-1950	14
112	Solution-Processable Field-Effect Transistors Fabricated Using Aryl Phenoxazine Based Polymers as the Active Layer. <b>2009</b> , 30, 2371-2376	5
111	Synthesis of Oligoquinoline Dendronized Fullerenes for Potential Use in Organic Photovoltaic Devices. <b>2012</b> , 33, 2703-2706	1
110	Growth of ZnO Nanorod Arrays on Flexible Substrates: Effect of Precursor Solution Concentration. <b>2012</b> , 2012, 1-7	12
109	Enhancement of the Open-Circuit Voltage and Hole Conduction of Tetraphenyl Porphyrin/C <sub>60</sub> Multilayered Photovoltaic Device by the Insertion of Oxide Hole Collection Layers. <b>2011</b> , 50, 01BC14	6

108	Efficient Organic Photovoltaic Cells Using Hole-Transporting MoO <sub>3</sub> Buffer Layers Converted from Solution-Processed MoS <sub>2</sub> Films. <b>2011</b> , 50, 071604	14
107	Deposition of Transparent Indium Molybdenum Oxide Thin Films and the Application for Organic Solar Cells. <b>2012</b> , 51, 02BK02	1
106	Effect of Sol-Gel-Derived ZnO Interfacial Layer on the Photovoltaic Properties of Polymer Solar Cells. <b>2012</b> , 51, 10NE29	1
105	Introducing Electron-Withdrawing Linking Units and Thiophene Bridges into Polymerized Small Molecule Acceptors for High-Efficiency All-Polymer Solar Cells.	6
104	Organic Conjugated Molecules: From Nature to Artificial Applications. Where are the Boundaries?.	0
103	Quantitative Analysis of Charge Dissociation by Selectively Characterizing Exciton Splitting Efficiencies in Single Component Materials.	
102	?????????????????????. <b>2002</b> , 70, 274-278	
101	MDC-SHG spectroscopy of organic monolayer film. <b>2003</b> , 351-375	
100	Polymer optoelectronics towards nanometer dimensions. <b>2003</b> , 65-81	
99	Porphyrin and Fullerene-Based Artificial Photosynthesis. <b>2004</b> , 4, 19-24,4	
98	Nanoimprint lithography. <b>2004</b> ,	
97	Stoichiometric and Morphological Effects on the Photovoltaic Properties of Conjugated Polymer/C <sub>60</sub> Distributed Heterojunction Devices. <b>2005</b> ,	
96	Photovoltaic Properties of MEH-PPV/DFPP Blend Devices Based on Novel n-type Polymer DFPP. <b>2006</b> , 17, 461-468	
95	Introduction. <b>2008</b> , 1-58	
94	Smart Polymers for Biotechnology and Elastomers. <b>2008</b> ,	
93	Carbon-Nanotube Solar Photovoltaic Microcells with Nanowelded Contacts. <b>2009</b> , 85-101	
92	Bulk Heterojunction Solar Cells for Large-Area PV Fabrication on Flexible Substrates. <b>2009</b> , 373-412	
91	Electrochemical Approaches to Dye-Sensitized Solar Cells. <b>2009</b> , 12, 301-310	3

- 90 Routes toward High-Efficiency Polymer Solar Cells. **2009**, 319-358
- 89 Dynamics of two-dimensional interchain delocalized polarons. **2010**, 59, 6405 1
- 88 ??????????????. **2010**, 13, 93-100
- 87 Magnetoresistance and Spin Transport in Organic Semiconductor Devices. **2010**, 67-136
- 86 GaN Base Blue LED on Patterned Sapphire Substrate by Wet Etching. **2011**, 24, 7-11
- 85 Control of the Triplet Concentration in Organic Light-Emitting Devices. **2011**, 81-95
- 84 Nanoscale Double Interfacial Layers for Improved Photovoltaic Effect of Polymer Solar Cells. **2011**, 24, 70-75
- 83 Semiconducting Polymers and Their Optoelectronic Applications. 2369-2408 6
- 82 Fabrication of Annealing-Free High Efficiency and Large Area Polymer Solar Cells by Roller Painting Process. **2011**,
- 81 Synthesis and characterization of Biphasic Vanadyl phthalocyanine and C60 composite nanoparticles through a reprecipitation process. **2012**, 37, 205-208
- 80 Polymer in Sustainable Energy. **2012**, 11, 661-666 0
- 79 Preparation of Bulk Heterojunction Composite Consisting of Poly(3-hexylthiophene) and Neat C70 Using Halogen-Free Solvent. **2012**, 51, 030205 1
- 78 Structural and Molecular Changes of C60 Thin Films with Incorporated Magnesium Atoms. **2012**, 51, 04DK08
- 77 Theoretical Studies on 2-Hexylthieno[3,2-b]thiophene End-Capped Oligomers for Organic Semiconductor Materials. **2012**, 33, 1213-1219
- 76 Hydrogen-Bonded Fullerene Assemblies. 27-53
- 75 Combinatorial Screening of Materials Using Inkjet Printing as a Patterning Technique. 19-39
- 74 Solid-State Polymer/ZnO Hybrid Dye Sensitized Solar Cell: A Review. **2012**, 9, 69-80
- 73 Polarizing Photovoltaic Polymer Films for Reflective Solar-LCDs. **2012**, 25, 525-530

- 72 Solar Energy. **2013**, 97-128 0
- 71 Introduction. **2013**, 1-16
- 70 Photovoltaic Effect of Polymer Solar Cells Doped with Sensitizing Dye. **2013**, 26, 252-256
- 69 Fabrication and Characterization of Organic Solar Cells with Gold Nanoparticles in PEDOT:PSS Hole Transport Layer. **2013**, 20, 39-46 3
- 68 Photovoltaics: Organic-Based Solar Cells. **2014**, 3657-3672
- 67 Fabrication of Electrochromic Devices Using Double Layer Conducting Polymers for Infrared Transmittance Control. **2014**, 3, 32-34
- 66 Encyclopedia of Nanotechnology. **2015**, 1-11
- 65 Synthesis and Photovoltaic Properties of a Low Band Gap Polymer for Organic Solar Cell. **2015**, 39, 71-77
- 64 Encyclopedia of Nanotechnology. **2016**, 3956-3966
- 63 Chapter 11: Modeling Organic Solar Cells: What are the Challenges Ahead?. **2016**, 367-390
- 62 An Approach to Equivalent Circuit Modelling of Inverted Organic Solar Cells. **2016**, 07, 1297-1306
- 61 ? Application of Polymer/Nanocomposites for Sensitive Electronic Device Packaging: Issues and Challenges Involved in Achieving Ultralow Barrier Property. **2016**, 713-730
- 60 Anti-Reflection Thin Film For Photoelectric Conversion Efficiency Enhanced of Dye-Sensitized Solar Cells. **2016**, 29, 814-818
- 59 Nanostructured Semiconducting Materials for Water Splitting. **2017**, 291-351
- 58 Solar Cells Based on Solid Electrolyte Films. **2017**, 1-19
- 57 VLC with Organic Photonic Components. **2017**, 521-548
- 56 Introduction to Fundamental Concepts. **2018**, 1-26
- 55 Applications of Heteroatom-Based Oligomers and Polymers in Optoelectronics. 163-195

- 54 Multi-Junction Polymer Solar Cells: Recent Trends and Challenges. **2020**, 1-18
- 53 Enhanced open-circuit voltages and efficiencies: the role of oxidation state of molybdenum oxide buffer layer in polymer solar cells.. **2021**, 11, 35141-35146
- 52 Scalable organic bulk heterojunction solar cells fabricated by ultrasonic spray deposition technique. **2020**,
- 51 Optical Optimization of Thin-Film Polymer Solar Cells. **2020**, 507-547 1
- 50 Fiber Perovskite Solar Cells. **2020**, 137-159
- 49 Electron Transfer in a Naphthalene Diimide System Studied by Single-Molecule Delayed Fluorescence. **2020**, 73, 699 1
- 48 Polymer Solar Cells. 101-119
- 47 Polymer Solar Cells. 365-383
- 46 Physical Properties and Associated Applications of Conducting Polymers. **2008**, 47-87
- 45 İnce Film Organik Fotovoltaikler İn Alana Başlıyık Toplama Modeli.
- 44 Electrochemical, EPR, and computational study of pyrene conjugatesprecursors for novel type of organic semiconductors. 1
- 43 Electron and hole transport in solution-processed fullerenes. **2021**, 9, 16068-16077 0
- 42 Numerical investigation of the effects of copper sulfide nanoparticles on hole transport layer of thin-film organic solar cells. **2022**, 21, 128 0
- 41 Charge transfer state characterization and voltage losses of organic solar cells. **2022**, 5, 024002 3
- 40 Magneto-electrical properties of nickel phthalocyanine thin film and its application in organic solar cells. **2022**, 231, 623-629 0
- 39  **2022**, 56, 1091
- 38 ReviewConjugated Polymer Photovoltaic Materials: Performance and Applications of Organic Semiconductors in Photovoltaics. 0
- 37 Introducing neat fullerenes to improve the thermal stability of slot-die coated organic solar cells. **2022**, 3, 2838-2849

- 36 Structure Properties of small donor-acceptor molecules for homojunction single-material organic solar cells. **2022**, 10, 5716-5726 1
- 35 Nanostructure Semiconductor Materials for Device Applications. **2022**, 57-86
- 34 2D Materials for Wearable Energy Harvesting. 2101623 1
- 33 Study of the Chain Condensation Process from a Dilute to a Concentrated Solution and the Transformation of the Chain Conformation from a Solution to a Film for the Conjugated Polymer PFO.. **2022**, 7, 8498-8505
- 32 Modeling of carbon dioxide fixation by microalgae using hybrid artificial intelligence (AI) and fuzzy logic (FL) methods and optimization by genetic algorithm (GA).. **2022**, 1 0
- 31 Effects of vertically aligned ZnO nanorods surface morphology on the ambient-atmosphere fabricated organic solar cells. **2022**, 14, 100271 0
- 30 Unraveling the Charge-Carrier Dynamics from the Femtosecond to the Microsecond Time Scale in Double-Cable Polymer-Based Single-Component Organic Solar Cells. **2022**, 12, 2103406 2
- 29 Effect of Nitrogen Atoms on Structures and Electron Transport of N-heteropentacenes Devices.. **2022**,
- 28 Synthesis, spectroscopic, solid-state electrical conductivity, and thermal analysis of Cu(II) doped Zn(II) heterobimetallic complexes derived from 2,5-dichloro-3,6-bis-(methylamino)1,4-benzoquinone. **2022**, 647, 129071
- 27 Nanomaterials for Perovskite Solar Cells. **2022**, 1-43
- 26 Industrial viability of single-component organic solar cells. **2022**, 3
- 25 Study on charge transport properties and photoelectric properties of two series of 2,5-di(pyridine-2-yl)thiophene derivatives. **2022**, 289, 117120
- 24 Simulation and Experimental Device Performance Analysis of TiO<sub>2</sub>Based Inverted Organic Solar Cells. 0
- 23 Electrical Characteristics of a Turmeric Dye-Based Organic Thin Film Device and the Effect of Light on Barrier Height. 0
- 22 Recent Progress in Hole-Transporting Layers of Conventional Organic Solar Cells with p*h*i Structure. 2205398 5
- 21 Heterocyclic-based photoactive materials. **2023**, 219-296 0
- 20 Fullerenes in Photovoltaics. **2022**, 851-888 0
- 19 Flash-Lamp Processing of Charge Extraction Layers for Polymer Solar Cells. **2022**, 9, 2201150 0



18	Minireview on Solar Desalination and Hydropower Generation by Water Evaporation: Recent Challenges and Perspectives in Materials Science. <b>2022</b> , 36, 11443-11456	1
17	Solution Processed WO <sub>3</sub> and PEDOT:PSS Composite for Hole Transport Layer in ITO-Free Organic Solar Cells.	0
16	Optical Properties and Light-Induced Charge Transfer in Selected Aromatic C <sub>60</sub> Fullerene Derivatives and in Their Bulk Heterojunctions with Poly(3-Hexylthiophene). <b>2022</b> , 15, 6908	0
15	Highly Efficient Non-Fullerene Organic Solar Cells with Nickel Oxide Hole Transporting Layer: Employing Dipole Induced Energy Level Modification.	0
14	Temperature Dependence of Electrical Conductivity and XRD Studies of Hydroquinone Modified Amberlite XAD-4 Resin. <b>2022</b> , 96, 2541-2546	0
13	Parametric extraction and internal analysis of fullerene-based polymer bulk heterojunction solar cell. <b>2022</b> , 1-12	0
12	Temperature dependent charge transport in electrostatically doped poly[benzimidazobenzophenanthroline] thin films.	0
11	Synthesis of Organic Semiconductor Nanoparticles with Different Conformations Using the Nanoprecipitation Method. <b>2022</b> , 14, 5336	1
10	Layer-by-Layer Processed Organic Photovoltaic Cells Using Slot-Die-Coating Methods and Non-halogenated Solvents under Ambient Conditions with PCE of 10%. 2202156	0
9	Ambipolar Charge Transport of PCNTC-O and PCNTC-R Cocrystals Obtained Under 1:2 and 1:1 Ratios of Donor and Acceptor. 18, 147-157	0
8	Formation of hierarchically ordered structures in conductive polymers to enhance the performances of lithium-ion batteries.	0
7	Cyano-Capped Molecules: Versatile Organic Materials.	1
6	Natural Materials for Sustainable Organic Solar Cells: Status and Challenge. 2213910	0
5	Solar cells containing two novel superparamagnetic nanocomposites of Fe <sub>3</sub> O <sub>4</sub> -TiO <sub>2</sub> -poly(m-aminobenzenesulfonic acid). <b>2023</b> , 295, 117335	0
4	Self-assembled quantum dots decorated polypyrrole based multifunctional nanocomposite. <b>2023</b> , 666, 131241	0
3	A numerical study on the relationship between the doping and performance in P3HT:PCBM organic bulk heterojunction solar cells. <b>2023</b> , 13,	0
2	SCAPS-based simulation analysis of device parameters of ZnO-inverted polymer solar cells. <b>2023</b> , 55,	0
1	Polymeric Solar Cell with 19.69% Efficiency Based on Poly(o-phenylene diamine)/TiO <sub>2</sub> Composites. <b>2023</b> , 15, 1111	0

