Yuning Li

List of Publications by Year in Descending Order

194 papers	10,253 citations	50 h-index	97 g-index
198 ext. papers	11,096 ext. citations	7.5 avg, IF	6.4 L-index

#	Paper	IF	Citations
194	Ubiquitous clean and sustainable energy-driven self-rechargeable batteries realized by and used in organic electronics. *Journal of Materials Chemistry C*, **2022**, 10, 388-412	7.1	1
193	Novel wide bandgap benzodithiophene-based polymer donors with electron-withdrawing indolin-2-one side chains for efficient organic solar cells with high open circuit voltage. *Dyes and Pigments*, **2022**, 197, 109876	4.6	0
192	Temperature Sensors Based on Organic Field-Effect Transistors. *Chemosensors*, **2022**, 10, 12	4	4
191	Alkyloxime-Substituted Thiophene-Based Wide-Band-Gap Polymer Donor Achieving a High Short Circuit Current Density of 30 mA cm⁻² in Organic Solar Cells. *Chemistry of Materials*, **2022**, 34, 4232-4241	9.6	1
190	Wide Bandgap Polymer Donor with Acrylate Side Chains for Non-Fullerene Acceptor-Based Organic Solar Cells.. *Macromolecular Rapid Communications*, **2022**, e2200325	4.8	0
189	Enhanced Cycle Stability of Crumpled Graphene-Encapsulated Silicon Anodes via Polydopamine Sealing. *ACS Omega*, **2021**, 6, 12293-12305	3.9	4
188	A Wide Bandgap Polymer Donor Composed of Benzodithiophene and Oxime-Substituted Thiophene for High-Performance Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 26441-26450	9.5	6
187	Zinc Complex-Based Multifunctional Reactive Lithium Polysulfide Trapper Approaching Its Theoretical Efficiency. *ACS Applied Materials & Interfaces*, **2021**, 13, 23936-23944	9.5	1
186	Moisture-Stable FAPbI Perovskite Achieved by Atomic Structure Negotiation. *Journal of Physical Chemistry Letters*, **2021**, 12, 5332-5338	6.4	8
185	Wide bandgap polymer donors for high efficiency non-fullerene acceptor based organic solar cells. *Materials Advances*, **2021**, 2, 115-145	3.3	16
184	Polymer-Based Solid Electrolytes: Material Selection, Design, and Application. *Advanced Functional Materials*, **2021**, 31, 2007598	15.6	45
183	Boosting Li–S battery performance using an in-cell electropolymerized conductive polymer. *Materials Advances*, **2021**, 2, 974-984	3.3	1
182	A Highly Stable Diketopyrrolopyrrole (DPP) Polymer for Chemiresistive Sensors. *Advanced Electronic Materials*, **2021**, 7, 2000935	6.4	6
181	Enhancing toxic gas uptake performance of Zr-based MOF through uncoordinated carboxylate and copper insertion; ammonia adsorption. *Journal of Hazardous Materials*, **2021**, 416, 125933	12.8	7
180	Improving ammonia uptake performance of zirconium-based metal-organic frameworks through open metal site insertion strategy. *Chemical Engineering Journal*, **2021**, 421, 129655	14.7	8
179	Addressing interface elimination: Boosting comprehensive performance of all-solid-state Li-S battery. *Energy Storage Materials*, **2021**, 41, 563-570	19.4	4
178	Energetic characteristics of the Al/CuO core-shell composite micro-particles fabricated as spherical colloids. *Thermochimica Acta*, **2020**, 689, 178656	2.9	3

177	Comprehensive evaluation of safety performance and failure mechanism analysis for lithium sulfur pouch cells. *Energy Storage Materials*, **2020**, 30, 87-97	19.4	33
176	Optimized synthesis of fluorinated dithienyl-diketopyrrolopyrroles and new copolymers obtained via direct heteroarylation polymerization. *Materials Chemistry Frontiers*, **2020**, 4, 2040-2046	7.8	6
175	BisisoindigoBenzothiadiazole Copolymers: Materials for Ambipolar and n-Channel OTFTs with Low Threshold Voltages. *ACS Applied Electronic Materials*, **2020**, 2, 2039-2048	4	5
174	Air and temperature sensitivity of n-type polymer materials to meet and exceed the standard of N2200. *Scientific Reports*, **2020**, 10, 4014	4.9	17
173	Synthesis of Poly(bisisoindigo) Using a Metal-Free Aldol Polymerization for Thin-Film Transistor Applications. *ACS Applied Materials & Interfaces*, **2020**, 12, 14265-14271	9.5	13
172	Yttrium Doped Copper (II) Oxide Hole Transport Material as Efficient Thin Film Transistor. *ChemPhysChem*, **2020**, 21, 895-907	3.2	0
171	Facile synthesis of a semiconducting bithiophene-azine polymer and its application for organic thin film transistors and organic photovoltaics.. *RSC Advances*, **2020**, 10, 12876-12882	3.7	2
170	D-A Polymer with a Donor Backbone - Acceptor-side-chain Structure for Organic Solar Cells. *Asian Journal of Organic Chemistry*, **2020**, 9, 1301-1308	3	3
169	3,7-Bis(2-oxoindolin-3-ylidene)benzo[1,2-b:4,5-b?]difuran-2,6-dione Dicyanides with Engineered Side Chains for Unipolar n-Type Transistors. *ACS Applied Electronic Materials*, **2020**, 2, 103-110	4	0
168	Ultrasmall TiOx Nanoparticles Rich in Oxygen Vacancies Synthesized through a Simple Strategy for Ultrahigh-Rate Lithium-Ion Batteries. *ChemElectroChem*, **2020**, 7, 4124-4130	4.3	6
167	Alkyloxime Side Chain Enabled Polythiophene Donors for Efficient Organic Solar Cells. *Macromolecules*, **2020**, 53, 8796-8808	5.5	9
166	Selenophene and Thiophene-Based Conjugated Polymer Gels **2020**, 2, 1617-1623		6
165	Tuning Intra and Intermolecular Interactions for Balanced Hole and Electron Transport in Semiconducting Polymers. *Chemistry of Materials*, **2020**, 32, 7338-7346	9.6	12
164	3D hierarchical nanosheet NiBe/CFP as a novel cathode for lithiumSulfur batteries. *Journal of the Iranian Chemical Society*, **2020**, 17, 545-553	2	7
163	Performance of CoTiO3 as an oxide perovskite material for the light scattering layer of dye-sensitized solar cells. *New Journal of Chemistry*, **2019**, 43, 3760-3768	3.6	13
162	Effect of the length and branching point of alkyl side chains on DPP-thieno[3,2-b]thiophene copolymers for organic thin-film transistors. *Optical Materials*, **2019**, 88, 500-507	3.3	8
161	Poly(3-alkylthiophene)- block-poly(3-alkylselenophene)s: Conjugated Diblock Co-polymers with Atypical Self-Assembly Behavior. *ACS Applied Materials & Interfaces*, **2019**, 11, 7174-7183	9.5	14
160	On the assessment of incorporation of CNT-TiO core-shell structures into nanoparticle TiO photoanodes in dye-sensitized solar cells. *Photochemical and Photobiological Sciences*, **2019**, 18, 1840-1850	4.2	11

159	Design and synthesis of stable indigo polymer semiconductors for organic field-effect transistors with high fluoride sensitivity and selectivity.. *RSC Advances*, **2019**, 9, 26230-26237	3.7	9
158	Synthesis of an isomerically pure thienoquinoid for unipolar n-type conjugated polymers: effect of backbone curvature on charge transport performance. *Journal of Materials Chemistry C*, **2019**, 7, 10352-10359	7.1	17
157	Electrodeposited p-type Cu2O thin films at high pH for all-oxide solar cells with improved performance. *Thin Solid Films*, **2019**, 676, 42-53	2.2	5
156	Solvent engineering based on triethylenetetramine (TETA) for perovskite solar cells processed in ambient-air. *Photochemical and Photobiological Sciences*, **2019**, 18, 1228-1234	4.2	2
155	Relative reactivities of epoxide monomers during copolymerization with carbon dioxide. *Advanced Industrial and Engineering Polymer Research*, **2019**, 2, 178-185	7.3	1
154	Yttrium-doped CuSCN thin film transistor: synthesis and optoelectronic characterization study. *Journal of Materials Chemistry C*, **2019**, 7, 14543-14554	7.1	8
153	[2,2RBithiophene]-4,4Rdicarboxamide: a novel building block for semiconducting polymers.. *RSC Advances*, **2019**, 9, 30496-30502	3.7	3
152	A zinc(II) complex of di(naphthylethynyl)azadipyrromethene with low synthetic complexity leads to OPV with high industrial accessibility. *Journal of Materials Chemistry A*, **2019**, 7, 24614-24625	13	6
151	Pseudocapacitive Sodium Storage by Ferroelectric Sn P S with Layered Nanostructure. *Small*, **2018**, 14, e1704367	11	27
150	Ionically cross-linked PEDOT:PSS as a multi-functional conductive binder for high-performance lithium□sulfur batteries. *Sustainable Energy and Fuels*, **2018**, 2, 1574-1581	5.8	50
149	A new n-type polymer based on N,N?-dialkoxynaphthalenediimide (NDIO) for organic thin-film transistors and all-polymer solar cells. *Journal of Materials Chemistry C*, **2018**, 6, 1349-1352	7.1	18
148	Performance Comparisons of Polymer Semiconductors Synthesized by Direct (Hetero)Arylation Polymerization (DHAP) and Conventional Methods for Organic Thin Film Transistors and Organic Photovoltaics. *Molecules*, **2018**, 23,	4.8	14
147	Effect of Acceptor Unit Length and Planarity on the Optoelectronic Properties of Isoindigo□thiophene Donor□Acceptor Polymers. *Chemistry of Materials*, **2018**, 30, 4864-4873	9.6	35
146	Side-chain engineering in naphthalenediimide-based n-type polymers for high-performance all-polymer photodetectors. *Polymer Chemistry*, **2018**, 9, 327-334	4.9	15
145	Effect of Molecular Shape on the Properties of Non-Fullerene Acceptors: Contrasting Calamitic Versus 3D Design Principles. *ACS Applied Energy Materials*, **2018**, 1, 6513-6523	6.1	9
144	Electronic properties of isoindigo-based conjugated polymers bearing urea-containing and linear alkyl side chains. *Journal of Materials Chemistry C*, **2018**, 6, 12070-12078	7.1	14
143	A novel epoxy resin-based cathode binder for low cost, long cycling life, and high-energy lithium□sulfur batteries. *Journal of Materials Chemistry A*, **2018**, 6, 14315-14323	13	32
142	Effect of compositions of acceptor polymers on dark current and photocurrent of all-polymer bulk-heterojunction photodetectors. *Polymer*, **2017**, 114, 173-179	3.9	13

141	Side-chain engineering for fine-tuning of molecular packing and nanoscale blend morphology in polymer photodetectors. *Polymer Chemistry*, **2017**, 8, 2055-2062	4.9	14
140	New 3,3?-(ethane-1,2-diylidene)bis(indolin-2-one) (EBI)-based small molecule semiconductors for organic solar cells. *Journal of Materials Chemistry C*, **2017**, 5, 5143-5153	7.1	4
139	Low-bandgap donor–acceptor polymers for photodetectors with photoresponsivity from 300 nm to 1600 nm. *Journal of Materials Chemistry C*, **2017**, 5, 159-165	7.1	56
138	Regioisomerism of an alkyl-substituted bithiophene comonomer in (3E,8E)-3,8-bis(2-oxoindolin-3-ylidene)naphtho-[1,2-b:5,6-b?]difuran-2,7(3H,8H)-dione (INDF)-based D–A polymers for organic thin film transistors. *Journal of Materials Chemistry C*, **2017**, 5, 5902-5909	7.1	5
137	Instantaneous carbonization of an acetylenic polymer into highly conductive graphene-like carbon and its application in lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2017**, 5, 7015-7025	13	19
136	Direct heteroarylation polymerization: guidelines for defect-free conjugated polymers. *Chemical Science*, **2017**, 8, 3913-3925	9.4	52
135	A Study of the Degree of Fluorination in Regioregular Poly(3-hexylthiophene). *Macromolecules*, **2017**, 50, 162-174	5.5	26
134	Multi-shell tin phosphide nanospheres as high performance anode material for a sodium ion battery. *Sustainable Energy and Fuels*, **2017**, 1, 1944-1949	5.8	25
133	New Fluorinated Dithienyldiketopyrrolopyrrole Monomers and Polymers for Organic Electronics. *Macromolecules*, **2017**, 50, 7080-7090	5.5	41
132	An aromatic amine-containing polymer as an additive to ambipolar polymer semiconductor realizing unipolar n-type charge transport. *Organic Electronics*, **2017**, 49, 406-414	3.5	6
131	Recent progress in the development of n-type organic semiconductors for organic field effect transistors. *Journal of Materials Chemistry C*, **2017**, 5, 8654-8681	7.1	274
130	Ultrafast photoresponse organic phototransistors based on pyrimido[4,5-g]quinazoline-4,9-dione polymer. *Journal of Materials Chemistry C*, **2017**, 5, 8742-8748	7.1	8
129	A small bandgap (3E,7E)-3,7-bis(2-oxoindolin-3-ylidene)benzo[1,2-b:4,5-b?]difuran-2,6(3H,7H)-dione (IBDF) based polymer semiconductor for near-infrared organic phototransistors. *Journal of Materials Chemistry C*, **2017**, 5, 12163-12171	7.1	22
128	Converting a Semiconducting Polymer from Ambipolar into n-Type Dominant by Amine End-Capping. *ChemElectroChem*, **2017**, 4, 256-260	4.3	3
127	Naphthalene diimide–diketopyrrolopyrrole copolymers as non-fullerene acceptors for use in bulk-heterojunction all-polymer UV–NIR photodetectors. *Polymer Chemistry*, **2017**, 8, 528-536	4.9	27
126	Synthesis, characterization, and air stability study of pyrimido[4,5-g]quinazoline-4,9-dione-based polymers for organic thin film transistors. *RSC Advances*, **2016**, 6, 78477-78485	3.7	1
125	Control of Cu 2 O Film Morphology Using Potentiostatic Pulsed Electrodeposition. *Electrochimica Acta*, **2016**, 213, 225-235	6.7	32
124	Dramatically different charge transport properties of bisthienyl diketopyrrolopyrrole-bithiazole copolymers synthesized via two direct (hetero)arylation polymerization routes. *Polymer Chemistry*, **2016**, 7, 4515-4524	4.9	26

123	Pyrazino[2,3-g]quinoxaline-2,7-dione based □conjugated polymers with affinity towards acids and semiconductor performance in organic thin film transistors. *RSC Advances*, **2016**, 6, 22043-22051	3.7	31
122	Interaction Potency of Single-Walled Carbon Nanotubes with DNAs: A Novel Assay for Assessment of Hazard Risk. *PLoS ONE*, **2016**, 11, e0167796	3.7	
121	Structural Analysis of Poly(3-hexylthiophene) Prepared via Direct Heteroarylation Polymerization. *Macromolecular Chemistry and Physics*, **2016**, 217, 1493-1500	2.6	42
120	Utilization of hole trapping effect of aromatic amines to convert polymer semiconductor from ambipolar into n-type. *Organic Electronics*, **2016**, 37, 190-196	3.5	8
119	Thiophene-S,S-dioxidized Indophenine: A Quinoid-Type Building Block with High Electron Affinity for Constructing n-Type Polymer Semiconductors with Narrow Band Gaps. *Angewandte Chemie - International Edition*, **2016**, 55, 3459-62	16.4	63
118	A fluorene-fused triphenodioxazine (FTPDO) based polymer with remarkable thermal stability and significantly enhanced charge transport performance in air. *Dyes and Pigments*, **2016**, 132, 329-335	4.6	10
117	Thiophene-S,S-dioxidized indophenine (IDTO) based donor□cceptor polymers for n-channel organic thin film transistors. *RSC Advances*, **2016**, 6, 34849-34854	3.7	19
116	Synthesis and properties of a novel narrow band gap oligomeric diketopyrrolopyrrole-based organic semiconductor. *Dyes and Pigments*, **2016**, 131, 160-167	4.6	7
115	Thiophene-S,S-dioxidized indophenines as high performance n-type organic semiconductors for thin film transistors. *RSC Advances*, **2016**, 6, 45410-45418	3.7	10
114	3,7-Bis((E)-2-oxoindolin-3-ylidene)-3,7-dihydrobenzo[1,2-b:4,5-b?]dithiophene-2,6-dione (IBDT) based polymer with balanced ambipolar charge transport performance. *Organic Electronics*, **2016**, 35, 41-46	3.5	11
113	Transistor Sizing for Bias-Stress Instability Compensation in Inkjet-Printed Organic Complementary Inverters. *IEEE Electron Device Letters*, **2016**, 37, 1438-1441	4.4	4
112	Polymeric Photoinitiators: A New Search toward High Performance Visible Light Photoinitiating Systems. *Macromolecular Chemistry and Physics*, **2016**, 217, 2145-2153	2.6	10
111	Branched alkyl ester side chains rendering large polycyclic (3E,7E)-3,7-bis(2-oxoindolin-3-ylidene)benzo[1,2-b:4,5-b?]difuran-2,6(3H,7H)-dione (IBDF) based donor□cceptor polymers solution-processability for organic thin film transistors. *Polymer Chemistry*, **2015**, 6, 6689-6697	4.9	16
110	Conjugated Polymers with Switchable Carrier Polarity. *Macromolecules*, **2015**, 48, 5587-5595	5.5	12
109	(3E,8E)-3,8-Bis(2-oxoindolin-3-ylidene)naphtho-[1,2-b:5,6-b?]difuran-2,7(3H,8H)-dione (INDF) based polymers for organic thin-film transistors with highly balanced ambipolar charge transport characteristics. *Chemical Communications*, **2015**, 51, 13515-8	5.8	31
108	An indigo-based polymer bearing thermocleavable side chains for n-type organic thin film transistors. *Journal of Materials Chemistry C*, **2015**, 3, 5226-5232	7.1	26
107	Thionation Enhances the Electron Mobility of Perylene Diimide for High Performance n-Channel Organic Field Effect Transistors. *Advanced Functional Materials*, **2015**, 25, 3321-3329	15.6	60
106	Is a polymer semiconductor having a "perfect" regular structure desirable for organic thin film transistors?. *Chemical Science*, **2015**, 6, 3225-3235	9.4	39

105	New synthetic route to pyrimido[4,5-g]quinazoline-4,9-diones. *Tetrahedron Letters*, **2015**, 56, 2280-2282	2	8
104	(3Z,3?Z)-3,3?-(Hydrazine-1,2-diylidene)bis(indolin-2-one) as a new electron-acceptor building block for donor–acceptor π-conjugated polymers for organic thin film transistors. *Journal of Materials Chemistry C*, **2015**, 3, 4464-4470	7.1	14
103	(3E,7E)-3,7-Bis(2-oxoindolin-3-ylidene)-5,7-dihydropyrrolo[2,3-f]indole-2,6(1H,3H)-dione based polymers for ambipolar organic thin film transistors. *Chemical Communications*, **2015**, 51, 8093-6	5.8	40
102	Enhanced electron mobility in crystalline thionated naphthalene diimides. *Journal of Materials Chemistry C*, **2015**, 3, 11505-11515	7.1	37
101	End-Group Engineering of Low-Bandgap Compounds for High-Detectivity Solution-Processed Small-Molecule Photodetectors. *Journal of Physical Chemistry C*, **2015**, 119, 25243-25251	3.8	5
100	Pyrimido[4,5-g]quinazoline-4,9-dione as a new building block for constructing polymer semiconductors with high sensitivity to acids and hole transport performance in organic thin film transistors. *Journal of Materials Chemistry C*, **2015**, 3, 11937-11944	7.1	8
99	Polyethylenimine (PEI) As an Effective Dopant To Conveniently Convert Ambipolar and p-Type Polymers into Unipolar n-Type Polymers. *ACS Applied Materials & Interfaces*, **2015**, 7, 18662-71	9.5	40
98	Regioisomeric control of charge transport polarity for indigo-based polymers. *Polymer Chemistry*, **2015**, 6, 6998-7004	4.9	8
97	Study of Vertical and Lateral Charge Transport Properties of DPP-Based Polymer/PC61BM Films Using Space Charge Limited Current (SCLC) and Field Effect Transistor Methods and their Effects on Photovoltaic Characteristics. *Australian Journal of Chemistry*, **2015**, 68, 1741	1.2	5
96	Conjugated Polymers à la Carte from Time-Controlled Direct (Hetero)Arylation Polymerization. *ACS Macro Letters*, **2015**, 4, 21-24	6.6	93
95	A pyridine-flanked diketopyrrolopyrrole (DPP)-based donor–acceptor polymer showing high mobility in ambipolar and n-channel organic thin film transistors. *Polymer Chemistry*, **2015**, 6, 938-945	4.9	57
94	A high mobility DPP-based polymer obtained via direct (hetero)arylation polymerization. *Polymer Chemistry*, **2015**, 6, 278-282	4.9	68
93	Panchromatic photoinitiators for radical, cationic and thiol-ene polymerization reactions: A search in the diketopyrrolopyrrole or indigo dye series. *Materials Today Communications*, **2015**, 4, 101-108	2.5	32
92	Large Modulation of Charge Transport Anisotropy by Controlling the Alignment of π-Stacks in Diketopyrrolopyrrole-Based Polymers. *Advanced Materials Interfaces*, **2015**, 2, 1500153	4.6	8
91	Diketopyrrolopyrrole dyes: Structure/reactivity/efficiency relationship in photoinitiating systems upon visible lights. *Polymer*, **2014**, 55, 746-751	3.9	37
90	Impact of N-substitution of a carbazole unit on molecular packing and charge transport of DPP–carbazole copolymers. *Journal of Materials Chemistry C*, **2014**, 2, 1683	7.1	15
89	Green light sensitive diketopyrrolopyrrole derivatives used in versatile photoinitiating systems for photopolymerizations. *Polymer Chemistry*, **2014**, 5, 2293	4.9	65
88	Facile conversion of polymer organic thin film transistors from ambipolar and p-type into unipolar n-type using polyethyleneimine (PEI)-modified electrodes. *Organic Electronics*, **2014**, 15, 3787-3794	3.5	13

87	New building blocks for π-conjugated polymer semiconductors for organic thin film transistors and photovoltaics. *Journal of Materials Chemistry C*, **2014**, 2, 8651-8661	7.1	71
86	Morphological evolution of anodic TiO2 nanotubes. *RSC Advances*, **2014**, 4, 35833-35843	3.7	6
85	Synthesis and properties of azothiazole based π-conjugated polymers. *Journal of Materials Chemistry C*, **2014**, 2, 7096-7103	7.1	5
84	3,3′-(Ethane-1,2-diylidene)bis(indolin-2-one) based conjugated polymers for organic thin film transistors. *Chemical Communications*, **2014**, 50, 6509-12	5.8	15
83	Influence of side chain length and bifurcation point on the crystalline structure and charge transport of diketopyrrolopyrrole-quaterthiophene copolymers (PDQTs). *Journal of Materials Chemistry C*, **2014**, 2, 2183-2190	7.1	49
82	Synthesis and properties of indigo based donor–acceptor conjugated polymers. *Journal of Materials Chemistry C*, **2014**, 2, 4289-4296	7.1	28
81	Synthesis and properties of pyrrolo[3,4-c]pyrrole-1,3-dione based polymer semiconductors and their performance in organic thin film transistors. *Polymer Chemistry*, **2014**, 5, 5247-5254	4.9	7
80	Record high electron mobility of 6.3 cm□V?□s?□achieved for polymer semiconductors using a new building block. *Advanced Materials*, **2014**, 26, 2636-42, 2613	24	334
79	Cyano-disubstituted dipyrrolopyrazinedione (CNPzDP) small molecules for solution processed n-channel organic thin-film transistors. *Journal of Materials Chemistry C*, **2013**, 1, 5624	7.1	16
78	Dramatically enhanced molecular ordering and charge transport of a DPP-based polymer assisted by oligomers through antiplasticization. *Journal of Materials Chemistry C*, **2013**, 1, 4423	7.1	27
77	Influences of using a high mobility donor polymer on solar cell performance. *Organic Electronics*, **2013**, 14, 3484-3492	3.5	13
76	Dipyrrolo[2,3-b:2′,3′-e]pyrazine-2,6(1H,5H)-dione based conjugated polymers for ambipolar organic thin-film transistors. *Chemical Communications*, **2013**, 49, 484-6	5.8	43
75	Novel stable (3E,7E)-3,7-bis(2-oxoindolin-3-ylidene)benzo[1,2-b:4,5-b′]difuran-2,6(3H,7H)-dione based donor-acceptor polymer semiconductors for n-type organic thin film transistors. *Chemical Communications*, **2013**, 49, 3790-2	5.8	96
74	Organic photovoltaics with thick active layers (~800nm) using a high mobility polymer donor. *Solar Energy Materials and Solar Cells*, **2013**, 114, 71-81	6.4	31
73	High mobility diketopyrrolopyrrole (DPP)-based organic semiconductor materials for organic thin film transistors and photovoltaics. *Energy and Environmental Science*, **2013**, 6, 1684	35.4	552
72	3,6-Dithiophen-2-yl-diketopyrrolo[3,2-b]pyrrole (isoDPPT) as an Acceptor Building Block for Organic Opto-Electronics. *Macromolecules*, **2013**, 46, 3895-3906	5.5	57
71	Influences of alcoholic solvents on spray pyrolysis deposition of TiO2 blocking layer films for solid-state dye-sensitized solar cells. *Journal of Solid State Chemistry*, **2013**, 198, 197-202	3.3	26
70	Effect of nanoparticle stabilizing ligands and ligand-capped gold nanoparticles in polymer solar cells. *Solar Energy Materials and Solar Cells*, **2012**, 96, 302-306	6.4	23

69	Poly(2,5-bis(2-octyldodecyl)-3,6-di(furan-2-yl)-2,5-dihydro-pyrrolo[3,4-c]pyrrole-1,4-dione-co-thieno[3,2-b]thiophene): a high performance polymer semiconductor for both organic thin film transistors and organic photovoltaics. *Physical Chemistry Chemical Physics*, **2012**, 14, 7162-9	3.6	40
68	Diketopyrrolopyrrole-based semiconducting polymer bearing thermocleavable side chains. *Journal of Materials Chemistry*, **2012**, 22, 18950		46
67	Solution processable poly(2,5-dialkyl-2,5-dihydro-3,6-di-2-thienyl-pyrrolo[3,4-c]pyrrole-1,4-dione) for ambipolar organic thin film transistors. *Organic Electronics*, **2012**, 13, 1606-1613	3.5	37
66	Effect of MoO3 as an interlayer on the performance of organic solar cells based on ZnPc and C60. *Synthetic Metals*, **2012**, 161, 2748-2752	3.6	15
65	Synthesis and thin-film transistor performance of benzodipyrrolinone and bithiophene donor-acceptor copolymers. *Journal of Materials Chemistry*, **2012**, 22, 22282		35
64	A furan-containing conjugated polymer for high mobility ambipolar organic thin film transistors. *Chemical Communications*, **2012**, 48, 8383-5	5.8	83
63	A conjugated polyazine containing diketopyrrolopyrrole for ambipolar organic thin film transistors. *Chemical Communications*, **2012**, 48, 8413-5	5.8	79
62	Furan containing diketopyrrolopyrrole copolymers: synthesis, characterization, organic field effect transistor performance and photovoltaic properties. *Journal of Materials Chemistry*, **2012**, 22, 4425-4435		102
61	Recent Progress in High Mobility Polymer Semiconductors for Organic Thin Film Transistors. *Reviews in Advanced Sciences and Engineering*, **2012**, 1, 200-224		33
60	3,6-Di(furan-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione and bithiophene copolymer with rather disordered chain orientation showing high mobility in organic thin film transistors. *Journal of Materials Chemistry*, **2011**, 21, 10829		126
59	Annealing-free high-mobility diketopyrrolopyrrole-quaterthiophene copolymer for solution-processed organic thin film transistors. *Journal of the American Chemical Society*, **2011**, 133, 2198-204	16.4	359
58	High mobility organic thin film transistor and efficient photovoltaic devices using versatile donor□acceptor polymer semiconductor by molecular design. *Energy and Environmental Science*, **2011**, 4, 2288	35.4	154
57	Efficiency enhancement of inverted organic photovoltaic devices with ZnO nanopillars fabricated on FTO glass substrates. *Synthetic Metals*, **2011**, 161, 2174-2178	3.6	12
56	Three-Dimensional Optoelectronic Model for Organic Bulk Heterojunction Solar Cells. *IEEE Journal of Photovoltaics*, **2011**, 1, 84-92	3.7	20
55	Influences of deposition and post-annealing temperatures on properties of TiO2 blocking layer prepared by spray pyrolysis for solid-state dye-sensitized solar cells. *Thin Solid Films*, **2011**, 519, 7850-7854	2.2	21
54	Effect of blend layer morphology on performance of ZnPc:C60-based photovoltaic cells. *Applied Physics Letters*, **2010**, 97, 133304	3.4	42
53	A high mobility P-type DPP-thieno[3,2-b]thiophene copolymer for organic thin-film transistors. *Advanced Materials*, **2010**, 22, 4862-6	24	462
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