Derya Baran

List of Publications by Year in Descending Order

146 papers	9,284 citations	50 h-index	94 g-index
161 ext. papers	11,069 ext. citations	14.8 avg, IF	6.43 L-index

#	Paper	IF	Citations
146	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. *Joule*, **2022**, 6, 8-15	27.8	14
145	Air-Processable and Thermally Stable Hole Transport Layer for Non-Fullerene Organic Solar Cells. *ACS Applied Energy Materials*, **2022**, 5, 1023-1030	6.1	2
144	Mechanical Reliability of Fullerene/Tin Oxide Interfaces in Monolithic Perovskite/Silicon Tandem Cells. *ACS Energy Letters*, **2022**, 7, 827-833	20.1	2
143	A Universal Cosolvent Evaporation Strategy Enables Direct Printing of Perovskite Single Crystals for Optoelectronic Device Applications.. *Advanced Materials*, **2022**, e2109862	24	1
142	Chemical Design Rules for Non-Fullerene Acceptors in Organic Solar Cells (Adv. Energy Mater. 44/2021). *Advanced Energy Materials*, **2021**, 11, 2170175	21.8	0
141	Build your village. *Nature Energy*, **2021**, 6, 938-938	62.3	
140	Linked Nickel Oxide/Perovskite Interface Passivation for High-Performance Textured Monolithic Tandem Solar Cells (Adv. Energy Mater. 40/2021). *Advanced Energy Materials*, **2021**, 11, 2170160	21.8	
139	Molecular Doping of a Naphthalene Diimide-Bithiophene Copolymer and SWCNTs for n-Type Thermoelectric Composites. *ACS Applied Materials & Interfaces*, **2021**, 13, 411-418	9.5	4
138	Adjusting the energy of interfacial states in organic photovoltaics for maximum efficiency. *Nature Communications*, **2021**, 12, 1772	17.4	12
137	Dopant-Assisted Matrix Stabilization Enables Thermoelectric Performance Enhancement in n-Type Quantum Dot Films. *ACS Applied Materials & Interfaces*, **2021**, 13, 18999-19007	9.5	0
136	Efficient Hybrid Amorphous Silicon/Organic Tandem Solar Cells Enabled by Near-Infrared Absorbing Nonfullerene Acceptors. *Advanced Energy Materials*, **2021**, 11, 2100166	21.8	3
135	Molecular Doping Directed by a Neutral Radical. *ACS Applied Materials & Interfaces*, **2021**,	9.5	5
134	Concurrent cationic and anionic perovskite defect passivation enables 27.4% perovskite/silicon tandems with suppression of halide segregation. *Joule*, **2021**, 5, 1566-1586	27.8	43
133	A Nonionic Alcohol Soluble Polymer Cathode Interlayer Enables Efficient Organic and Perovskite Solar Cells.. *Chemistry of Materials*, **2021**, 33, 8602-8611	9.6	6
132	Device Performance of Emerging Photovoltaic Materials (Version 1). *Advanced Energy Materials*, **2021**, 11, 2002774	21.8	56
131	Ink Engineering of Transport Layers for 9.5% Efficient All-Printed Semitransparent Nonfullerene Solar Cells. *Advanced Functional Materials*, **2021**, 31, 2005763	15.6	15
130	Amphipathic Side Chain of a Conjugated Polymer Optimizes Dopant Location toward Efficient N-Type Organic Thermoelectrics. *Advanced Materials*, **2021**, 33, e2006694	24	42

129	Intrinsic efficiency limits in low-bandgap non-fullerene acceptor organic solar cells. *Nature Materials*, **2021**, 20, 378-384	27	108
128	N-Doping improves charge transport and morphology in the organic non-fullerene acceptor O-IDTBR. *Journal of Materials Chemistry C*, **2021**, 9, 4486-4495	7.1	5
127	All Slot-Die Coated Non-Fullerene Organic Solar Cells with PCE 11%. *Advanced Functional Materials*, **2021**, 31, 2009996	15.6	19
126	Efficient bifacial monolithic perovskite/silicon tandem solar cells via bandgap engineering. *Nature Energy*, **2021**, 6, 167-175	62.3	76
125	All-Solution-Processed Quantum Dot Electrical Double-Layer Transistors Enhanced by Surface Charges of TiCT MXene Contacts. *ACS Nano*, **2021**, 15, 5221-5229	16.7	12
124	The ultralow thermal conductivity and tunable thermoelectric properties of surfactant-free SnSe nanocrystals.. *RSC Advances*, **2021**, 11, 28072-28080	3.7	1
123	Halide Perovskites: Halide Perovskites: Thermal Transport and Prospects for Thermoelectricity (Adv. Sci. 10/2020). *Advanced Science*, **2020**, 7, 2070056	13.6	1
122	Electron-Deficient and Quinoid Central Unit Engineering for Unfused Ring-Based A -D-A -D-A -Type Acceptor Enables High Performance Nonfullerene Polymer Solar Cells with High V and PCE Simultaneously. *Small*, **2020**, 16, e1907681	11	22
121	Fully Inkjet-Printed, Ultrathin and Conformable Organic Photovoltaics as Power Source Based on Cross-Linked PEDOT:PSS Electrodes. *Advanced Materials Technologies*, **2020**, 5, 2000226	6.8	22
120	Efficient tandem solar cells with solution-processed perovskite on textured crystalline silicon. *Science*, **2020**, 367, 1135-1140	33.3	298
119	Exploiting Ternary Blends for Improved Photostability in High-Efficiency Organic Solar Cells. *ACS Energy Letters*, **2020**, 5, 1371-1379	20.1	83
118	A Highly Conductive Titanium Oxynitride Electron-Selective Contact for Efficient Photovoltaic Devices. *Advanced Materials*, **2020**, 32, e2002608	24	22
117	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. *Nature Energy*, **2020**, 5, 131-140	62.3	552
116	Halide Perovskites: Thermal Transport and Prospects for Thermoelectricity. *Advanced Science*, **2020** , 7, 1903389	13.6	65
115	A universal solution processed interfacial bilayer enabling ohmic contact in organic and hybrid optoelectronic devices. *Energy and Environmental Science*, **2020**, 13, 268-276	35.4	26
114	Efficient as-cast thick film small-molecule organic solar cell with less fluorination on the donor. *Materials Chemistry Frontiers*, **2020**, 4, 206-212	7.8	7
113	Processing-Performance Evolution of Perovskite Solar Cells: From Large Grain Polycrystalline Films to Single Crystals. *Advanced Energy Materials*, **2020**, 10, 1902762	21.8	28
112	Flexible Electronics: Status, Challenges and Opportunities **2020**, 1,		35

111	Tuning the Thermoelectric Performance of Hybrid Tin Perovskites by Air Treatment. *Advanced Energy and Sustainability Research*, **2020**, 1, 2000033	1.6	8
110	Suppressing Co-Crystallization of Halogenated Non-Fullerene Acceptors for Thermally Stable Ternary Solar Cells. *Advanced Functional Materials*, **2020**, 30, 2005462	15.6	28
109	N-type organic thermoelectrics: demonstration of ZT > 0.3. *Nature Communications*, **2020**, 11, 5694	17.4	53
108	A Highly Conductive Conjugated Polyelectrolyte for Flexible Organic Thermoelectrics. *ACS Applied Energy Materials*, **2020**, 3, 8667-8675	6.1	5
107	Enhanced Thermoelectric Performance and Lifetime in Acid-Doped PEDOT:PSS Films Via Work Function Modification. *ACS Applied Energy Materials*, **2020**, 3, 9126-9132	6.1	8
106	A Multilayered Electron Extracting System for Efficient Perovskite Solar Cells. *Advanced Functional Materials*, **2020**, 30, 2004273	15.6	8
105	High performance conjugated terpolymers as electron donors in nonfullerene organic solar cells. *Journal of Materials Chemistry C*, **2020**, 8, 13422-13429	7.1	3
104	Self-Healing and Stretchable 3D-Printed Organic Thermoelectrics. *Advanced Functional Materials*, **2019**, 29, 1905426	15.6	72
103	Efficient DPP Donor and Nonfullerene Acceptor Organic Solar Cells with High Photon-to-Current Ratio and Low Energetic Loss. *Advanced Functional Materials*, **2019**, 29, 1902441	15.6	32
102	Highly Passivated n-Type Colloidal Quantum Dots for Solution-Processed Thermoelectric Generators with Large Output Voltage. *Advanced Energy Materials*, **2019**, 9, 1901244	21.8	9
101	End Group Tuning in Acceptor□Donor□Acceptor Nonfullerene Small Molecules for High Fill Factor Organic Solar Cells. *Advanced Functional Materials*, **2019**, 29, 1808429	15.6	33
100	Role of Compositional Tuning on Thermoelectric Parameters of Hybrid Halide Perovskites. *Journal of Physical Chemistry C*, **2019**, 123, 14928-14933	3.8	23
99	Overcoming Coulomb Interaction Improves Free-Charge Generation and Thermoelectric Properties for n-Doped Conjugated Polymers. *ACS Energy Letters*, **2019**, 4, 1556-1564	20.1	75
98	Side chain engineering on dithieno[3,2-b:2,3-d]pyrrol fused electron acceptors for efficient organic solar cells. *Materials Chemistry Frontiers*, **2019**, 3, 702-708	7.8	16
97	The role of the third component in ternary organic solar cells. *Nature Reviews Materials*, **2019**, 4, 229-242	73.3	244
96	Highly Stretchable and Air-Stable PEDOT:PSS/Ionic Liquid Composites for Efficient Organic Thermoelectrics. *Chemistry of Materials*, **2019**, 31, 3519-3526	9.6	51
95	Digital Inkjet Printing of High-Efficiency Large-Area Nonfullerene Organic Solar Cells. *Advanced Materials Technologies*, **2019**, 4, 1900040	6.8	47
94	Dual Sensitizer and Processing-Aid Behavior of Donor Enables Efficient Ternary Organic Solar Cells. *Joule*, **2019**, 3, 846-857	27.8	68

93	Nonfullerene Acceptor for Organic Solar Cells with Chlorination on Dithieno[3,2-b:2?,3?-d]pyrrol Fused-Ring. *ACS Energy Letters*, **2019**, 4, 763-770	20.1	87
92	A 0D Lead-Free Hybrid Crystal with Ultralow Thermal Conductivity. *Advanced Functional Materials*, **2019**, 29, 1809166	15.6	23
91	Transition from Positive to Negative Photoconductance in Doped Hybrid Perovskite Semiconductors. *Advanced Optical Materials*, **2019**, 7, 1900865	8.1	27
90	Tuning of the conformation of asymmetric nonfullerene acceptors for efficient organic solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 22279-22286	13	47
89	Molecular Orientation Unified Nonfullerene Acceptor Enabling 14% Efficiency As-Cast Organic Solar Cells. *Advanced Functional Materials*, **2019**, 29, 1903269	15.6	45
88	Giant Humidity Effect on Hybrid Halide Perovskite Microstripes: Reversibility and Sensing Mechanism. *ACS Applied Materials & Interfaces*, **2019**, 11, 29821-29829	9.5	44
87	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. *Joule*, **2019**, 3, 1963-1976	27.8	154
86	Enhancing the Charge Extraction and Stability of Perovskite Solar Cells Using Strontium Titanate (SrTiO3) Electron Transport Layer. *ACS Applied Energy Materials*, **2019**, 2, 8090-8097	6.1	26
85	Low-Temperature-Processed Colloidal Quantum Dots as Building Blocks for Thermoelectrics. *Advanced Energy Materials*, **2019**, 9, 1803049	21.8	11
84	Excitation Wavelength-Dependent Internal Quantum Efficiencies in a P3HT/Nonfullerene Acceptor Solar Cell. *Journal of Physical Chemistry C*, **2019**, 123, 5826-5832	3.8	5
83	Reduced ion migration and enhanced photoresponse in cuboid crystals of methylammonium lead iodide perovskite. *Journal Physics D: Applied Physics*, **2019**, 52, 054001	3	11
82	Interfacial Dynamics and Contact Passivation in Perovskite Solar Cells. *Advanced Electronic Materials*, **2019**, 5, 1800500	6.4	22
81	Critical review of the molecular design progress in non-fullerene electron acceptors towards commercially viable organic solar cells. *Chemical Society Reviews*, **2019**, 48, 1596-1625	58.5	617
80	Figures of Merit Guiding Research on Organic Solar Cells. *Journal of Physical Chemistry C*, **2018**, 122, 5829-5843	3.8	30
79	A new NIR absorbing DPP-based polymer for thick organic solar cells. *Journal of Materials Chemistry C*, **2018**, 6, 2957-2961	7.1	17
78	The Physics of Small Molecule Acceptors for Efficient and Stable Bulk Heterojunction Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1703298	21.8	96
77	Controlling Blend Morphology for Ultrahigh Current Density in Nonfullerene Acceptor-Based Organic Solar Cells. *ACS Energy Letters*, **2018**, 3, 669-676	20.1	187
76	A Thieno[2,3-b]pyridine-Flanked Diketopyrrolopyrrole Polymer as an n-Type Polymer Semiconductor for All-Polymer Solar Cells and Organic Field-Effect Transistors. *Macromolecules*, **2018**, 51, 71-79	5.5	44

75	Barbiturate end-capped non-fullerene acceptors for organic solar cells: tuning acceptor energetics to suppress geminate recombination losses. *Chemical Communications*, **2018**, 54, 2966-2969	5.8	23
74	Fluorination Triggered New Small Molecule Donor Materials for Efficient As-Cast Organic Solar Cells. *Small*, **2018**, 14, e1801542	11	20
73	A Highly Crystalline Fused-Ring n-Type Small Molecule for Non-Fullerene Acceptor Based Organic Solar Cells and Field-Effect Transistors. *Advanced Functional Materials*, **2018**, 28, 1802895	15.6	63
72	Cs0.15FA0.85PbI3 perovskite solar cells for concentrator photovoltaic applications. *Journal of Materials Chemistry A*, **2018**, 6, 21913-21917	13	20
71	Visible and Near-Infrared Imaging with Nonfullerene-Based Photodetectors. *Advanced Materials Technologies*, **2018**, 3, 1800104	6.8	60
70	A fully inkjet-printed disposable glucose sensor on paper. *Npj Flexible Electronics*, **2018**, 2,	10.7	84
69	Room-Temperature-Sputtered Nanocrystalline Nickel Oxide as Hole Transport Layer for p□□ Perovskite Solar Cells. *ACS Applied Energy Materials*, **2018**, 1, 6227-6233	6.1	57
68	Influence of Blend Morphology and Energetics on Charge Separation and Recombination Dynamics in Organic Solar Cells Incorporating a Nonfullerene Acceptor. *Advanced Functional Materials*, **2018**, 28, 1704389	15.6	68
67	Solar Cells: Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics (Adv. Mater. 35/2018). *Advanced Materials*, **2018**, 30, 1870260	24	3
66	Robust nonfullerene solar cells approaching unity external quantum efficiency enabled by suppression of geminate recombination. *Nature Communications*, **2018**, 9, 2059	17.4	141
65	Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. *Advanced Materials*, **2018**, 30, e1801661	24	58
64	Progress in Poly (3-Hexylthiophene) Organic Solar Cells and the Influence of Its Molecular Weight on Device Performance. *Advanced Energy Materials*, **2018**, 8, 1801001	21.8	72
63	The Influence of Solvent Additive on Polymer Solar Cells Employing Fullerene and Non-Fullerene Acceptors. *Advanced Electronic Materials*, **2018**, 4, 1700358	6.4	46
62	Photovoltaic limitations of BODIPY:fullerene based bulk heterojunction solar cells. *Synthetic Metals* , **2017**, 226, 25-30	3.6	13
61	Review□Organic Materials for Thermoelectric Energy Generation. *ECS Journal of Solid State Science and Technology*, **2017**, 6, N3080-N3088	2	93
60	Highly Efficient and Reproducible Nonfullerene Solar Cells from Hydrocarbon Solvents. *ACS Energy Letters*, **2017**, 2, 1494-1500	20.1	74
59	Polymer:Nonfullerene Bulk Heterojunction Solar Cells with Exceptionally Low Recombination Rates. *Advanced Energy Materials*, **2017**, 7, 1701561	21.8	69
58	Burn-in Free Nonfullerene-Based Organic Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1700770	21.8	156

57	Nanoscale Morphology of Doctor Bladed versus Spin-Coated Organic Photovoltaic Films. *Advanced Energy Materials*, **2017**, 7, 1701269	21.8	16
56	An Efficient, "Burn in" Free Organic Solar Cell Employing a Nonfullerene Electron Acceptor. *Advanced Materials*, **2017**, 29, 1701156	24	138
55	Reducing the efficiency-stability-cost gap of organic photovoltaics with highly efficient and stable small molecule acceptor ternary solar cells. *Nature Materials*, **2017**, 16, 363-369	27	807
54	Designing ternary blend bulk heterojunction solar cells with reduced carrier recombination and a fill factor of 77%. *Nature Energy*, **2016**, 1,	62.3	274
53	High-efficiency and air-stable P3HT-based polymer solar cells with a new non-fullerene acceptor. *Nature Communications*, **2016**, 7, 11585	17.4	903
52	Nanoscale Morphology of PTB7 Based Organic Photovoltaics as a Function of Fullerene Size. *Scientific Reports*, **2016**, 6, 30915	4.9	23
51	Overcoming the Interface Losses in Planar Heterojunction Perovskite-Based Solar Cells. *Advanced Materials*, **2016**, 28, 5112-20	24	167
50	Facile synthesis and photovoltaic applications of a new alkylated bismethano fullerene as electron acceptor for high open circuit voltage solar cells. *RSC Advances*, **2015**, 5, 64724-64730	3.7	16
49	Synthesis and photovoltaic effect in red/near-infrared absorbing A-D-A-D-A-type oligothiophenes containing benzothiadiazole and thienothiadiazole central units. *Journal of Photonics for Energy*, **2015**, 5, 057213	1.2	7
48	Role of Polymer Fractionation in Energetic Losses and Charge Carrier Lifetimes of Polymer: Fullerene Solar Cells. *Journal of Physical Chemistry C*, **2015**, 119, 19668-19673	3.8	21
47	Photophysics of Molecular-Weight-Induced Losses in Indacenodithienothiophene-Based Solar Cells. *Advanced Functional Materials*, **2015**, 25, 4898-4907	15.6	51
46	Environmentally Printing Efficient Organic Tandem Solar Cells with High Fill Factors: A Guideline Towards 20% Power Conversion Efficiency. *Advanced Energy Materials*, **2014**, 4, 1400084	21.8	101
45	Morphology analysis of near IR sensitized polymer/fullerene organic solar cells by implementing low bandgap heteroanalogue C-/Si-PCPDTBT. *Journal of Materials Chemistry A*, **2014**, 2, 19461-19472	13	62
44	Qualitative analysis of bulk-heterojunction solar cells without device fabrication: an elegant and contactless method. *Journal of the American Chemical Society*, **2014**, 136, 10949-55	16.4	25
43	Fully solution-processing route toward highly transparent polymer solar cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 18251-7	9.5	64
42	Effects of oligothiophene bridge length on physical and photovoltaic properties of star-shaped molecules for bulk heterojunction solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 16135-16147	13	31
41	An Efficient Solution-Processed Intermediate Layer for Facilitating Fabrication of Organic Multi-Junction Solar Cells. *Advanced Energy Materials*, **2013**, 3, 1597-1605	21.8	40
40	Towards 15% energy conversion efficiency: a systematic study of the solution-processed organic tandem solar cells based on commercially available materials. *Energy and Environmental Science*, **2013**, 6, 3407	35.4	90

39	A solution-processable star-shaped molecule for high-performance organic solar cells via alkyl chain engineering and solvent additive. *Organic Electronics*, **2013**, 14, 219-229	3.5	54
38	Introducing a new triazoloquinoxaline-based fluorene copolymer for organic photovoltaics: Synthesis, characterization, and photovoltaic properties. *Journal of Polymer Science Part A*, **2013**, 51, 987-992	2.5	9
37	Design of the Solution-Processed Intermediate Layer by Engineering for Inverted Organic Multi junction Solar Cells. *Advanced Energy Materials*, **2013**, 3, 301-307	21.8	53
36	Two similar near-infrared (IR) absorbing benzannulated aza-BODIPY dyes as near-IR sensitizers for ternary solar cells. *ACS Applied Materials & Interfaces*, **2013**, 5, 5609-16	9.5	67
35	Electrochemical and optical properties of solution processable benzotriazole and benzothiadiazole containing copolymers. *Synthetic Metals*, **2012**, 162, 79-84	3.6	18
34	Photovoltaic properties of benzotriazole containing alternating donor–acceptor copolymers: Effect of alkyl chain length. *Synthetic Metals*, **2012**, 162, 2047-2051	3.6	12
33	Performance Enhancement of the P3HT/PCBM Solar Cells through NIR Sensitization Using a Small-Bandgap Polymer. *Advanced Energy Materials*, **2012**, 2, 1198-1202	21.8	188
32	Benzotriazole containing conjugated polymers for multipurpose organic electronic applications. *Polymer Chemistry*, **2011**, 2, 1029-1043	4.9	121
31	Syntheses and optoelectronic properties of quinoxaline polymers: The effect of donor unit. *Journal of Polymer Science Part A*, **2011**, 49, 4065-4070	2.5	15
30	Neutral-State Green Conjugated Polymers from Pyrrole Bis-Substituted Benzothiadiazole and Benzoselenadiazole for Electrochromic Devices. *Macromolecular Chemistry and Physics*, **2011**, 212, 799-805	2.6	30
29	In Situ Spectroelectrochemical Study of Positively and Negatively Charged States in a Donor/Acceptor EDOT/Benzotriazole-Based Polymer. *Macromolecular Chemistry and Physics*, **2011**, 212, 2459-2466	2.6	4
28	Spray processable ambipolar benzotriazole bearing electrochromic polymers with multi-colored and transmissive states. *Journal of Materials Chemistry*, **2011**, 21, 1804-1809		47
27	Donor-acceptor type random copolymers for full visible light absorption. *Chemical Communications*, **2011**, 47, 3933-5	5.8	53
26	Multichromic polymers of benzotriazole derivatives: Effect of benzyl substitution. *Electrochimica Acta*, **2011**, 56, 2263-2268	6.7	21
25	Electrochromic and optical studies of solution processable benzotriazole and fluorene containing copolymers. *Organic Electronics*, **2011**, 12, 202-209	3.5	44
24	Green to highly transmissive switching multicolored electrochromes: Ferrocene pendant group effect on electrochromic properties. *Reactive and Functional Polymers*, **2011**, 71, 168-174	4.6	24
23	Synthesis of new donor–acceptor polymers containing thiadiazoloquinoxaline and pyrazinoquinoxaline moieties: low-band gap, high optical contrast, and almost black colored materials. *Tetrahedron Letters*, **2011**, 52, 2725-2729	2	23
22	Processable Multipurpose Conjugated Polymer for Electrochromic and Photovoltaic Applications. *Chemistry of Materials*, **2010**, 22, 2978-2987	9.6	141

21	A green neutral state donor–acceptor copolymer for organic solar cells. *Polymer Chemistry*, **2010**, 1, 1245	4.9	10
20	Processable donor–acceptor type electrochromes switching between multicolored and highly transmissive states towards single component RGB-based display devices. *Journal of Materials Chemistry*, **2010**, 20, 9861		37
19	Benzyl substituted benzotriazole containing conjugated polymers: Effect of position of the substituent on electrochromic properties. *Synthetic Metals*, **2010**, 160, 2534-2539	3.6	23
18	Spectroelectrochemical and Photovoltaic Characterization of a Solution-Processable n-and-p Type Dopable Pyrrole-Bearing Conjugated Polymer. *Macromolecular Chemistry and Physics*, **2010**, 211, 2602-2610	2.6	17
17	A ferrocene functionalized multichromic p and n dopable donor–acceptor–donor type conjugated polymer. *Journal of Electroanalytical Chemistry*, **2010**, 648, 184-189	4.1	18
16	Combination of donor characters in a donor–acceptor–donor (DAD) type polymer containing benzothiadiazole as the acceptor unit. *Organic Electronics*, **2010**, 11, 1877-1885	3.5	50
15	Donor–acceptor–donor type conjugated polymers for electrochromic applications: benzimidazole as the acceptor unit. *Polymer*, **2010**, 51, 6123-6131	3.9	55
14	Electrochromic device and bulk heterojunction solar cell applications of poly 4,7-bis(2,3-dihydrothieno[3,4-b][1,4]dioxin-5-yl)-2-dodecyl-2H-benzo[1,2,3]triazole (PBEBT). *Solar Energy Materials and Solar Cells*, **2010**, 94, 1797-1802	6.4	28
13	Enhancing electrochromic and kinetic properties of poly(2,3-bis(4-tert-butylphenyl)-5,8-di(1H-pyrrol-2-yl) quinoxaline) by copolymerization. *Electrochimica Acta*, **2010**, 55, 2373-2376	6.7	15
12	Electrochemical and optical studies of furan and thieno[3,2-b]thiophene end capped benzotriazole derivatives. *Journal of Polymer Science Part A*, **2010**, 48, 5603-5610	2.5	43
11	Donor acceptor type neutral state green polymer bearing pyrrole as the donor unit. *Organic Electronics*, **2009**, 10, 631-636	3.5	45
10	One polymer for all: benzotriazole containing donor-acceptor type polymer as a multi-purpose material. *Chemical Communications*, **2009**, 6768-70	5.8	104
9	Photovoltaic and photophysical properties of a novel bis-3-hexylthiophene substituted quinoxaline derivative. *Solar Energy Materials and Solar Cells*, **2008**, 92, 1162-1169	6.4	28
8	Effects of Vertical Molecular Stratifications and Microstructures on the Properties of Fullerene-Free Organic Solar Cells. *Advanced Photonics Research*,2100339	1.9	2
7	Effect of Quencher, Geometry, and Light Outcoupling on the Determination of Exciton Diffusion Length in Nonfullerene Acceptors. *Solar Rrl*,2100822	7.1	
6	Device Performance of Emerging Photovoltaic Materials (Version 2). *Advanced Energy Materials*,2102526	21.8	17
5	Role of Dopants in Organic and Halide Perovskite Energy Conversion Devices *Chemistry of Materials*,	9.6	2
4	Chemical Design Rules for Non-Fullerene Acceptors in Organic Solar Cells. *Advanced Energy Materials*,2102363	21.8	7

3	Linked Nickel Oxide/Perovskite Interface Passivation for High-Performance Textured Monolithic Tandem Solar Cells. *Advanced Energy Materials*,2101662	21.8	19
2	Understanding the Charge Transfer State and Energy Loss Trade-offs in Non-fullerene-Based Organic Solar Cells. *ACS Energy Letters*,3408-3416	20.1	13
1	CHAPTER 3. High-performance Organic Photovoltaic Donor Polymers. *RSC Nanoscience and Nanotechnology*,69-108		