

# Derya Baran

## List of Publications by Citations

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146  
papers

9,284  
citations

50  
h-index

94  
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161  
ext. papers

11,069  
ext. citations

14.8  
avg, IF

6.43  
L-index

#	Paper	IF	Citations
146	High-efficiency and air-stable P3HT-based polymer solar cells with a new non-fullerene acceptor. <i>Nature Communications</i> , <b>2016</b> , 7, 11585	17.4	903
145	Reducing the efficiency-stability-cost gap of organic photovoltaics with highly efficient and stable small molecule acceptor ternary solar cells. <i>Nature Materials</i> , <b>2017</b> , 16, 363-369	27	807
144	Critical review of the molecular design progress in non-fullerene electron acceptors towards commercially viable organic solar cells. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 1596-1625	58.5	617
143	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. <i>Nature Energy</i> , <b>2020</b> , 5, 131-140	62.3	552
142	Efficient tandem solar cells with solution-processed perovskite on textured crystalline silicon. <i>Science</i> , <b>2020</b> , 367, 1135-1140	33.3	298
141	Designing ternary blend bulk heterojunction solar cells with reduced carrier recombination and a fill factor of 77%. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	274
140	The role of the third component in ternary organic solar cells. <i>Nature Reviews Materials</i> , <b>2019</b> , 4, 229-242	73.3	244
139	Performance Enhancement of the P3HT/PCBM Solar Cells through NIR Sensitization Using a Small-Bandgap Polymer. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 1198-1202	21.8	188
138	Controlling Blend Morphology for Ultrahigh Current Density in Nonfullerene Acceptor-Based Organic Solar Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 669-676	20.1	187
137	Overcoming the Interface Losses in Planar Heterojunction Perovskite-Based Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 5112-20	24	167
136	Burn-in Free Nonfullerene-Based Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700770	21.8	156
135	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 1963-1976	27.8	154
134	Processable Multipurpose Conjugated Polymer for Electrochromic and Photovoltaic Applications. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 2978-2987	9.6	141
133	Robust nonfullerene solar cells approaching unity external quantum efficiency enabled by suppression of geminate recombination. <i>Nature Communications</i> , <b>2018</b> , 9, 2059	17.4	141
132	An Efficient, "Burn in" Free Organic Solar Cell Employing a Nonfullerene Electron Acceptor. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701156	24	138
131	Benzotriazole containing conjugated polymers for multipurpose organic electronic applications. <i>Polymer Chemistry</i> , <b>2011</b> , 2, 1029-1043	4.9	121
130	Intrinsic efficiency limits in low-bandgap non-fullerene acceptor organic solar cells. <i>Nature Materials</i> , <b>2021</b> , 20, 378-384	27	108

129	One polymer for all: benzotriazole containing donor-acceptor type polymer as a multi-purpose material. <i>Chemical Communications</i> , <b>2009</b> , 6768-70	5.8	104
128	Environmentally Printing Efficient Organic Tandem Solar Cells with High Fill Factors: A Guideline Towards 20% Power Conversion Efficiency. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400084	21.8	101
127	The Physics of Small Molecule Acceptors for Efficient and Stable Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703298	21.8	96
126	Review Organic Materials for Thermoelectric Energy Generation. <i>ECS Journal of Solid State Science and Technology</i> , <b>2017</b> , 6, N3080-N3088	2	93
125	Towards 15% energy conversion efficiency: a systematic study of the solution-processed organic tandem solar cells based on commercially available materials. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3407	35.4	90
124	Nonfullerene Acceptor for Organic Solar Cells with Chlorination on Dithieno[3,2-b:2',3'-d]pyrrolo Fused-Ring. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 763-770	20.1	87
123	A fully inkjet-printed disposable glucose sensor on paper. <i>Npj Flexible Electronics</i> , <b>2018</b> , 2,	10.7	84
122	Exploiting Ternary Blends for Improved Photostability in High-Efficiency Organic Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1371-1379	20.1	83
121	Efficient bifacial monolithic perovskite/silicon tandem solar cells via bandgap engineering. <i>Nature Energy</i> , <b>2021</b> , 6, 167-175	62.3	76
120	Overcoming Coulomb Interaction Improves Free-Charge Generation and Thermoelectric Properties for n-Doped Conjugated Polymers. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1556-1564	20.1	75
119	Highly Efficient and Reproducible Nonfullerene Solar Cells from Hydrocarbon Solvents. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1494-1500	20.1	74
118	Self-Healing and Stretchable 3D-Printed Organic Thermoelectrics. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1905426	15.6	72
117	Progress in Poly (3-Hexylthiophene) Organic Solar Cells and the Influence of Its Molecular Weight on Device Performance. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801001	21.8	72
116	Polymer:Nonfullerene Bulk Heterojunction Solar Cells with Exceptionally Low Recombination Rates. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1701561	21.8	69
115	Dual Sensitizer and Processing-Aid Behavior of Donor Enables Efficient Ternary Organic Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 846-857	27.8	68
114	Influence of Blend Morphology and Energetics on Charge Separation and Recombination Dynamics in Organic Solar Cells Incorporating a Nonfullerene Acceptor. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704389	15.6	68
113	Two similar near-infrared (IR) absorbing benzannulated aza-BODIPY dyes as near-IR sensitizers for ternary solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 5609-16	9.5	67
112	Halide Perovskites: Thermal Transport and Prospects for Thermoelectricity. <i>Advanced Science</i> , <b>2020</b> , 7, 1903389	13.6	65

111	Fully solution-processing route toward highly transparent polymer solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 18251-7	9.5	64
110	A Highly Crystalline Fused-Ring n-Type Small Molecule for Non-Fullerene Acceptor Based Organic Solar Cells and Field-Effect Transistors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802895	15.6	63
109	Morphology analysis of near IR sensitized polymer/fullerene organic solar cells by implementing low bandgap heteroanalogue C-/Si-PCPDTBT. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 19461-19472	13	62
108	Visible and Near-Infrared Imaging with Nonfullerene-Based Photodetectors. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1800104	6.8	60
107	Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801661	24	58
106	Room-Temperature-Sputtered Nanocrystalline Nickel Oxide as Hole Transport Layer for p-i-n Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 6227-6233	6.1	57
105	Device Performance of Emerging Photovoltaic Materials (Version 1). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002774	21.8	56
104	Donor-acceptor-donor type conjugated polymers for electrochromic applications: benzimidazole as the acceptor unit. <i>Polymer</i> , <b>2010</b> , 51, 6123-6131	3.9	55
103	A solution-processable star-shaped molecule for high-performance organic solar cells via alkyl chain engineering and solvent additive. <i>Organic Electronics</i> , <b>2013</b> , 14, 219-229	3.5	54
102	Design of the Solution-Processed Intermediate Layer by Engineering for Inverted Organic Multi junction Solar Cells. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 301-307	21.8	53
101	Donor-acceptor type random copolymers for full visible light absorption. <i>Chemical Communications</i> , <b>2011</b> , 47, 3933-5	5.8	53
100	N-type organic thermoelectrics: demonstration of ZT > 0.3. <i>Nature Communications</i> , <b>2020</b> , 11, 5694	17.4	53
99	Highly Stretchable and Air-Stable PEDOT:PSS/Ionic Liquid Composites for Efficient Organic Thermoelectrics. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3519-3526	9.6	51
98	Photophysics of Molecular-Weight-Induced Losses in Indacenodithienothiophene-Based Solar Cells. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4898-4907	15.6	51
97	Combination of donor characters in a donor-acceptor-donor (DAD) type polymer containing benzothiadiazole as the acceptor unit. <i>Organic Electronics</i> , <b>2010</b> , 11, 1877-1885	3.5	50
96	Digital Inkjet Printing of High-Efficiency Large-Area Nonfullerene Organic Solar Cells. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900040	6.8	47
95	Tuning of the conformation of asymmetric nonfullerene acceptors for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 22279-22286	13	47
94	Spray processable ambipolar benzotriazole bearing electrochromic polymers with multi-colored and transmissive states. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 1804-1809		47

93	The Influence of Solvent Additive on Polymer Solar Cells Employing Fullerene and Non-Fullerene Acceptors. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1700358	6.4	46
92	Molecular Orientation Unified Nonfullerene Acceptor Enabling 14% Efficiency As-Cast Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1903269	15.6	45
91	Donor acceptor type neutral state green polymer bearing pyrrole as the donor unit. <i>Organic Electronics</i> , <b>2009</b> , 10, 631-636	3.5	45
90	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. <i>Macromolecules</i> , <b>2018</b> , 51, 71-79	5.5	44
89	Giant Humidity Effect on Hybrid Halide Perovskite Microstripes: Reversibility and Sensing Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29821-29829	9.5	44
88	Electrochromic and optical studies of solution processable benzotriazole and fluorene containing copolymers. <i>Organic Electronics</i> , <b>2011</b> , 12, 202-209	3.5	44
87	Electrochemical and optical studies of furan and thieno[3,2-b]thiophene end capped benzotriazole derivatives. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 5603-5610	2.5	43
86	Concurrent cationic and anionic perovskite defect passivation enables 27.4% perovskite/silicon tandems with suppression of halide segregation. <i>Joule</i> , <b>2021</b> , 5, 1566-1586	27.8	43
85	Amphipathic Side Chain of a Conjugated Polymer Optimizes Dopant Location toward Efficient N-Type Organic Thermoelectrics. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006694	24	42
84	An Efficient Solution-Processed Intermediate Layer for Facilitating Fabrication of Organic Multi-Junction Solar Cells. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1597-1605	21.8	40
83	Processable donor-acceptor type electrochromes switching between multicolored and highly transmissive states towards single component RGB-based display devices. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 9861		37
82	Flexible Electronics: Status, Challenges and Opportunities <b>2020</b> , 1,		35
81	End Group Tuning in Acceptor-Donor-Acceptor Nonfullerene Small Molecules for High Fill Factor Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808429	15.6	33
80	Efficient DPP Donor and Nonfullerene Acceptor Organic Solar Cells with High Photon-to-Current Ratio and Low Energetic Loss. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902441	15.6	32
79	Effects of oligothiophene $\pi$ -bridge length on physical and photovoltaic properties of star-shaped molecules for bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 16135-16147	13	31
78	Figures of Merit Guiding Research on Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 5829-5843	30	30
77	Neutral-State Green Conjugated Polymers from Pyrrole Bis-Substituted Benzothiadiazole and Benzoselenadiazole for Electrochromic Devices. <i>Macromolecular Chemistry and Physics</i> , <b>2011</b> , 212, 799-805	2.6	30
76	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). <i>Solar Energy Materials and Solar Cells</i> , <b>2010</b> , 94, 1797-1802	6.4	28

75	Photovoltaic and photophysical properties of a novel bis-3-hexylthiophene substituted quinoxaline derivative. <i>Solar Energy Materials and Solar Cells</i> , <b>2008</b> , 92, 1162-1169	6.4	28
74	Processing-Performance Evolution of Perovskite Solar Cells: From Large Grain Polycrystalline Films to Single Crystals. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902762	21.8	28
73	Suppressing Co-Crystallization of Halogenated Non-Fullerene Acceptors for Thermally Stable Ternary Solar Cells. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2005462	15.6	28
72	Transition from Positive to Negative Photoconductance in Doped Hybrid Perovskite Semiconductors. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900865	8.1	27
71	Enhancing the Charge Extraction and Stability of Perovskite Solar Cells Using Strontium Titanate (SrTiO <sub>3</sub> ) Electron Transport Layer. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8090-8097	6.1	26
70	A universal solution processed interfacial bilayer enabling ohmic contact in organic and hybrid optoelectronic devices. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 268-276	35.4	26
69	Qualitative analysis of bulk-heterojunction solar cells without device fabrication: an elegant and contactless method. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 10949-55	16.4	25
68	Green to highly transmissive switching multicolored electrochromes: Ferrocene pendant group effect on electrochromic properties. <i>Reactive and Functional Polymers</i> , <b>2011</b> , 71, 168-174	4.6	24
67	Role of Compositional Tuning on Thermoelectric Parameters of Hybrid Halide Perovskites. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 14928-14933	3.8	23
66	A 0D Lead-Free Hybrid Crystal with Ultralow Thermal Conductivity. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1809166	15.6	23
65	Barbiturate end-capped non-fullerene acceptors for organic solar cells: tuning acceptor energetics to suppress geminate recombination losses. <i>Chemical Communications</i> , <b>2018</b> , 54, 2966-2969	5.8	23
64	Nanoscale Morphology of PTB7 Based Organic Photovoltaics as a Function of Fullerene Size. <i>Scientific Reports</i> , <b>2016</b> , 6, 30915	4.9	23
63	Benzyl substituted benzotriazole containing conjugated polymers: Effect of position of the substituent on electrochromic properties. <i>Synthetic Metals</i> , <b>2010</b> , 160, 2534-2539	3.6	23
62	Synthesis of new donor-acceptor polymers containing thiadiazoloquinoxaline and pyrazinoquinoxaline moieties: low-band gap, high optical contrast, and almost black colored materials. <i>Tetrahedron Letters</i> , <b>2011</b> , 52, 2725-2729	2	23
61	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. <i>Small</i> , <b>2020</b> , 16, e1907681	11	22
60	Fully Inkjet-Printed, Ultrathin and Conformable Organic Photovoltaics as Power Source Based on Cross-Linked PEDOT:PSS Electrodes. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000226	6.8	22
59	A Highly Conductive Titanium Oxynitride Electron-Selective Contact for Efficient Photovoltaic Devices. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002608	24	22
58	Interfacial Dynamics and Contact Passivation in Perovskite Solar Cells. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800500	6.4	22

57	Role of Polymer Fractionation in Energetic Losses and Charge Carrier Lifetimes of Polymer: Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 19668-19673	3.8	21
56	Multichromic polymers of benzotriazole derivatives: Effect of benzyl substitution. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 2263-2268	6.7	21
55	Fluorination Triggered New Small Molecule Donor Materials for Efficient As-Cast Organic Solar Cells. <i>Small</i> , <b>2018</b> , 14, e1801542	11	20
54	Cs <sub>0.15</sub> FA <sub>0.85</sub> PbI <sub>3</sub> perovskite solar cells for concentrator photovoltaic applications. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 21913-21917	13	20
53	All Slot-Die Coated Non-Fullerene Organic Solar Cells with PCE 11%. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009996	15.6	19
52	Linked Nickel Oxide/Perovskite Interface Passivation for High-Performance Textured Monolithic Tandem Solar Cells. <i>Advanced Energy Materials</i> , 2101662	21.8	19
51	Electrochemical and optical properties of solution processable benzotriazole and benzothiadiazole containing copolymers. <i>Synthetic Metals</i> , <b>2012</b> , 162, 79-84	3.6	18
50	A ferrocene functionalized multichromic p and n dopable donor-acceptor-donor type conjugated polymer. <i>Journal of Electroanalytical Chemistry</i> , <b>2010</b> , 648, 184-189	4.1	18
49	A new NIR absorbing DPP-based polymer for thick organic solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 2957-2961	7.1	17
48	Spectroelectrochemical and Photovoltaic Characterization of a Solution-Processable n-and-p Type Dopable Pyrrole-Bearing Conjugated Polymer. <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 2602-2610	2.6	17
47	Device Performance of Emerging Photovoltaic Materials (Version 2). <i>Advanced Energy Materials</i> , 2102526	21.8	17
46	Side chain engineering on dithieno[3,2-b:2,3-d]pyrrole fused electron acceptors for efficient organic solar cells. <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 702-708	7.8	16
45	Facile synthesis and photovoltaic applications of a new alkylated bismethano fullerene as electron acceptor for high open circuit voltage solar cells. <i>RSC Advances</i> , <b>2015</b> , 5, 64724-64730	3.7	16
44	Nanoscale Morphology of Doctor Bladed versus Spin-Coated Organic Photovoltaic Films. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1701269	21.8	16
43	Syntheses and optoelectronic properties of quinoxaline polymers: The effect of donor unit. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 4065-4070	2.5	15
42	Enhancing electrochromic and kinetic properties of poly(2,3-bis(4-tert-butylphenyl)-5,8-di(1H-pyrrol-2-yl) quinoxaline) by copolymerization. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 2373-2376	6.7	15
41	Ink Engineering of Transport Layers for 9.5% Efficient All-Printed Semitransparent Nonfullerene Solar Cells. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2005763	15.6	15
40	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. <i>Joule</i> , <b>2022</b> , 6, 8-15	27.8	14

39	Photovoltaic limitations of BODIPY:fullerene based bulk heterojunction solar cells. <i>Synthetic Metals</i> , <b>2017</b> , 226, 25-30	3.6	13
38	Understanding the Charge Transfer State and Energy Loss Trade-offs in Non-fullerene-Based Organic Solar Cells. <i>ACS Energy Letters</i> , 3408-3416	20.1	13
37	Photovoltaic properties of benzotriazole containing alternating donor-acceptor copolymers: Effect of alkyl chain length. <i>Synthetic Metals</i> , <b>2012</b> , 162, 2047-2051	3.6	12
36	Adjusting the energy of interfacial states in organic photovoltaics for maximum efficiency. <i>Nature Communications</i> , <b>2021</b> , 12, 1772	17.4	12
35	All-Solution-Processed Quantum Dot Electrical Double-Layer Transistors Enhanced by Surface Charges of TiCT MXene Contacts. <i>ACS Nano</i> , <b>2021</b> , 15, 5221-5229	16.7	12
34	Low-Temperature-Processed Colloidal Quantum Dots as Building Blocks for Thermoelectrics. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803049	21.8	11
33	Reduced ion migration and enhanced photoresponse in cuboid crystals of methylammonium lead iodide perovskite. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 054001	3	11
32	A green neutral state donor-acceptor copolymer for organic solar cells. <i>Polymer Chemistry</i> , <b>2010</b> , 1, 1245-1249	4.9	10
31	Highly Passivated n-Type Colloidal Quantum Dots for Solution-Processed Thermoelectric Generators with Large Output Voltage. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901244	21.8	9
30	Introducing a new triazoloquinoxaline-based fluorene copolymer for organic photovoltaics: Synthesis, characterization, and photovoltaic properties. <i>Journal of Polymer Science Part A</i> , <b>2013</b> , 51, 987-992	2.5	9
29	Tuning the Thermoelectric Performance of Hybrid Tin Perovskites by Air Treatment. <i>Advanced Energy and Sustainability Research</i> , <b>2020</b> , 1, 2000033	1.6	8
28	Enhanced Thermoelectric Performance and Lifetime in Acid-Doped PEDOT:PSS Films Via Work Function Modification. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 9126-9132	6.1	8
27	A Multilayered Electron Extracting System for Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004273	15.6	8
26	Synthesis and photovoltaic effect in red/near-infrared absorbing A-D-A-D-A-type oligothiophenes containing benzothiadiazole and thienothiadiazole central units. <i>Journal of Photonics for Energy</i> , <b>2015</b> , 5, 057213	1.2	7
25	Chemical Design Rules for Non-Fullerene Acceptors in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2102363	21.8	7
24	Efficient as-cast thick film small-molecule organic solar cell with less fluorination on the donor. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 206-212	7.8	7
23	A Nonionic Alcohol Soluble Polymer Cathode Interlayer Enables Efficient Organic and Perovskite Solar Cells.. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 8602-8611	9.6	6
22	A Highly Conductive Conjugated Polyelectrolyte for Flexible Organic Thermoelectrics. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 8667-8675	6.1	5



21	Molecular Doping Directed by a Neutral Radical. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	5
20	Excitation Wavelength-Dependent Internal Quantum Efficiencies in a P3HT/Nonfullerene Acceptor Solar Cell. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 5826-5832	3.8	5
19	N-Doping improves charge transport and morphology in the organic non-fullerene acceptor O-IDTBR. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 4486-4495	7.1	5
18	In Situ Spectroelectrochemical Study of Positively and Negatively Charged States in a Donor/Acceptor EDOT/Benzotriazole-Based Polymer. <i>Macromolecular Chemistry and Physics</i> , <b>2011</b> , 212, 2459-2466	2.6	4
17	Molecular Doping of a Naphthalene Diimide-Bithiophene Copolymer and SWCNTs for n-Type Thermoelectric Composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 411-418	9.5	4
16	High performance conjugated terpolymers as electron donors in nonfullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 13422-13429	7.1	3
15	Efficient Hybrid Amorphous Silicon/Organic Tandem Solar Cells Enabled by Near-Infrared Absorbing Nonfullerene Acceptors. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100166	21.8	3
14	Solar Cells: Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics (Adv. Mater. 35/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870260	24	3
13	Effects of Vertical Molecular Stratifications and Microstructures on the Properties of Fullerene-Free Organic Solar Cells. <i>Advanced Photonics Research</i> , 2100339	1.9	2
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