

Qing-Duan Li

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Vertical Composition Distribution and Crystallinity Regulations Enable High-Performance Polymer Solar Cells with >17% Efficiency. <i>ACS Energy Letters</i> , 2020, 5, 3637-3646.	17.4	87
2	Highly Conductive PEDOT:PSS Transparent Hole Transporting Layer with Solvent Treatment for High Performance Silicon/Organic Hybrid Solar Cells. <i>Nanoscale Research Letters</i> , 2017, 12, 506.	5.7	51
3	Understanding of Imine Substitution in Wide-Bandgap Polymer Donor-Induced Efficiency Enhancement in All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 8533-8542.	6.7	49
4	Impact of Donor-Acceptor Interaction and Solvent Additive on the Vertical Composition Distribution of Bulk Heterojunction Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45979-45990.	8.0	40
5	Design and synthesis of star-burst triphenylamine-based π -conjugated molecules. <i>Dyes and Pigments</i> , 2015, 113, 1-7.	3.7	35
6	Bithieno[3,4-c]pyrrole-4,6-dione-Mediated Crystallinity in Large-Bandgap Polymer Donors Directs Charge Transportation and Recombination in Efficient Nonfullerene Polymer Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 367-375.	17.4	33
7	Indacenodithiophene core-based small molecules with tunable side chains for solution-processed bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4004.	10.3	32
8	Conducting polymer-coated MIL-101/S composite with scale-like shell structure for improving Li-S batteries. <i>RSC Advances</i> , 2018, 8, 4786-4793.	3.6	28
9	Quantitative Determination of the Vertical Segregation and Molecular Ordering of PBDB-T/ITIC Blend Films with Solvent Additives. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24165-24173.	8.0	21
10	Synergistic Effects of Polymer Donor Backbone Fluorination and Nitrogenation Translate into Efficient Non-Fullerene Bulk-Heterojunction Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9545-9554.	8.0	19
11	Superior layer-by-layer deposition realizing P-N all-polymer solar cells with efficiency over 16% and fill factor over 77%. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10880-10891.	10.3	18
12	Solution processed black phosphorus quantum dots for high performance silicon/organic hybrid solar cells. <i>Materials Letters</i> , 2018, 217, 92-95.	2.6	14
13	Shorter alkyl chain in thieno[3,4-c]pyrrole-4,6-dione (TPD)-based large bandgap polymer donors Yield efficient non-fullerene polymer solar cells. <i>Journal of Energy Chemistry</i> , 2021, 53, 69-76.	12.9	10
14	High Performance Silicon/Organic Hybrid Solar Cells with Dual Localized Surface Plasmonic Effects of Ag and Au Nanoparticles. <i>Solar Rrl</i> , 2018, 2, 1800028.	5.8	8
15	Acrylate-Substituted Thiadiazoloquinoxaline Yields Ultralow Band Gap (0.56 eV) Conjugated Polymers for Efficient Photoacoustic Imaging. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3247-3253.	4.4	8
16	Vertical Distribution in Inverted Nonfullerene Polymer Solar Cells by Layer-by-Layer Solution Fabrication Process. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100386.	2.4	8
17	Pronounced Dependence of All-Polymer Solar Cells Photovoltaic Performance on the Alkyl Substituent Patterns in Large Bandgap Polymer Donors. <i>ChemPhysChem</i> , 2020, 21, 908-915.	2.1	7
18	A New Ester-Substituted Quinoxaline-Based Narrow Bandgap Polymer Donor for Organic Solar Cells. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000683.	3.9	7

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19	Efficient Small-Molecule-Based Inverted Organic Solar Cells With Conjugated Polyelectrolyte as a Cathode Interlayer. <i>IEEE Journal of Photovoltaics</i> , 2015, 5, 1118-1124.	2.5	5
20	The alkyl chain positioning of thieno[3,4-c]pyrrole-4,6-dione (TPD)-Based polymer donors mediates the energy loss, charge transport and recombination in polymer solar cells. <i>Journal of Power Sources</i> , 2020, 480, 229098.	7.8	4
21	Compatible Acceptors Mediate Morphology and Charge Generation, Transpration, Extraction, and Energy Loss in Efficient Ternary Polymer Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 10187-10196.	5.1	4
22	Novel narrow bandgap polymer donors based on ester-substituted quinoxaline unit for organic photovoltaic application. <i>Solar Energy</i> , 2021, 220, 425-431.	6.1	2
23	Influence of fullerene-based acceptor materials on the performance of indacenodithiophene-cored small molecule bulk heterojunction organic solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 5006-5013.	2.2	1