

Daobin Yang

List of Publications by Year in descending order

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papers

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36
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1019
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#	ARTICLE	IF	CITATIONS
1	Two star-shaped small molecule donors based on benzodithiophene unit for organic solar cells. <i>Chinese Chemical Letters</i> , 2022, 33, 247-251.	4.8	21
2	Crystallinity modulation of donors by heteroatom side-chain engineering and solvent additive achieving 14.3% all-small-molecule organic solar cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9635-9642.	5.2	15
3	Modulation of the Fluorination Site on Side-Chain Thiophene Improved Efficiency in All-Small-Molecule Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33234-33241.	4.0	12
4	Achieving 10% efficiency in non-fullerene all-small-molecule organic solar cells without extra treatments. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10427-10436.	5.2	15
5	Achieving 18.14% Efficiency of Ternary Organic Solar Cells with Alloyed Nonfullerene Acceptor. <i>Small Structures</i> , 2021, 2, 2100099.	6.9	16
6	High-Efficiency Thermal-Annealing-Free Organic Solar Cells Based on an Asymmetric Acceptor with Improved Thermal and Air Stability. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57271-57280.	4.0	44
7	Perovskite Solar Cells: Achieving 20% Efficiency for Low-Temperature-Processed Inverted Perovskite Solar Cells (<i>Adv. Funct. Mater.</i> 12/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970074.	7.8	1
8	Elucidating the impact of N-arylanilino substituents of squaraines on their photovoltaic performances. <i>Organic Electronics</i> , 2019, 66, 188-194.	1.4	4
9	A novel D1-A-D2 type low bandgap squaraine dye for efficient small molecular organic solar cells. <i>Dyes and Pigments</i> , 2019, 163, 564-572.	2.0	9
10	Achieving 20% Efficiency for Low-Temperature-Processed Inverted Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1807556.	7.8	68
11	Central dicyanomethylene-substituted unsymmetrical squaraines and their application in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5797-5806.	5.2	25
12	Synthesis of 3-Hydroxybenzo[e]indoline and Its Application to Small-Molecule Organic Solar Cells. <i>Chemistry - A European Journal</i> , 2018, 24, 8747-8750.	1.7	15
13	Effects of different types of unsymmetrical squaraines on the material properties and Coulomb interactions in organic photovoltaic devices. <i>Materials Chemistry Frontiers</i> , 2018, 2, 2116-2123.	3.2	4
14	A minimal non-radiative recombination loss for efficient non-fullerene all-small-molecule organic solar cells with a low energy loss of 0.54 eV and high open-circuit voltage of 1.15 V. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13918-13924.	5.2	62
15	Colorful Squaraines Dyes for Efficient Solution-Processed All Small-Molecule Semitransparent Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26465-26472.	4.0	28
16	The influence of intramolecular noncovalent interactions in unsymmetrical squaraines on material properties, film morphology and photovoltaic performance. <i>Dyes and Pigments</i> , 2017, 145, 222-232.	2.0	19
17	Low-Band-Gap Small Molecule for Efficient Organic Solar Cells with a Low Energy Loss below 0.6 eV and a High Open-Circuit Voltage of over 0.9 V. <i>ACS Energy Letters</i> , 2017, 2, 2021-2025.	8.8	61
18	Two different donor subunits substituted unsymmetrical squaraines for solution-processed small molecule organic solar cells. <i>Organic Electronics</i> , 2016, 32, 179-186.	1.4	13

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19	An Azulene-Containing Low Bandgap Small Molecule for Organic Photovoltaics with High Open-Circuit Voltage. <i>Chemistry - A European Journal</i> , 2016, 22, 14527-14530.	1.7	32
20	An effective π -extended squaraine for solution-processed organic solar cells with high efficiency. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18931-18941.	5.2	30
21	Unsymmetrical squaraines with new linkage manner for high-performance solution-processed small-molecule organic photovoltaic cells. <i>RSC Advances</i> , 2016, 6, 1877-1884.	1.7	12
22	Influence of the length of alkyl substituents on the morphology of the active layer of photovoltaic devices using squaraine as electron donor. <i>Chinese Science Bulletin</i> , 2016, 61, 342-349.	0.4	0
23	Asymmetrical Squaraines Bearing Fluorine-Substituted Indoline Moieties for High-Performance Solution-Processed Small-Molecule Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13675-13684.	4.0	39
24	N,N-Diarylamino end-capping as a new strategy for simultaneously enhancing open-circuit voltage, short-circuit current density and fill factor in small molecule organic solar cells. <i>RSC Advances</i> , 2015, 5, 20724-20733.	1.7	17
25	Asymmetrical squaraines for high-performance small-molecule organic solar cells with a short circuit current of over 12 mA cm ⁻² . <i>Chemical Communications</i> , 2015, 51, 6133-6136.	2.2	33
26	Cyano-substitution on the end-capping group: facile access toward asymmetrical squaraine showing strong dipole-dipole interactions as a high performance small molecular organic solar cells material. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17704-17712.	5.2	40
27	Synthesis and Photovoltaic Properties of Conjugated Copolymers Bearing bis(9,9-di(2-ethylhexyl)-9H-fluoren-2-yl)quinoxaline Subunit with Deep HOMO Level. <i>Asian Journal of Chemistry</i> , 2014, 26, 5959-5966.	0.1	0
28	UV-ozone-treated MoO ₃ as the hole-collecting buffer layer for high-efficiency solution-processed SQ:PC 71 BM photovoltaic devices. <i>Chinese Physics B</i> , 2014, 23, 038405.	0.7	1
29	Marked effects of indolyl vs. indolynyl substituent on solid-state structure, carrier mobility and photovoltaic efficiency of asymmetrical squaraine dyes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18313-18321.	5.2	28
30	Self-assembled nanopillar arrays by simple spin coating from blending systems comprising PC61BM and conjugated polymers with special structure. <i>RSC Advances</i> , 2014, 4, 24316-24319.	1.7	3
31	A low bandgap asymmetrical squaraine for high-performance solution-processed small molecule organic solar cells. <i>Chemical Communications</i> , 2014, 50, 9346-9348.	2.2	36
32	Synthesis and characterization of 4-dodecyloxyphenyl and (4-dodecyloxy-biphenyl)methylene-substituted bispyrrolylvinylthiophene-based polysquaraines having good solubility and very low bandgap for light absorption. <i>Journal of Applied Polymer Science</i> , 2013, 128, 1632-1639.	1.3	4
33	Novel high performance asymmetrical squaraines for small molecule organic solar cells with a high open circuit voltage of 1.12 V. <i>Chemical Communications</i> , 2013, 49, 10465.	2.2	48
34	The improved performance of solution-processed SQ:PC71BM photovoltaic devices via MoO ₃ as the anode modification layer. <i>Applied Surface Science</i> , 2013, 284, 849-854.	3.1	15
35	Novel conjugated polymers with planar backbone bearing acenaphtho[1,2-b]quinoxaline acceptor subunit for polymer solar cells. <i>Synthetic Metals</i> , 2013, 175, 21-29.	2.1	17
36	Novel high-performance photovoltaic π -A conjugated polymers bearing 1,2-squaraine moieties as electron-deficient units. <i>Solar Energy Materials and Solar Cells</i> , 2012, 105, 220-228.	3.0	23