Wenlan Liu

List of Publications by Year
in descending order

18 papers	1,010 citations	623734 14 h-index	888059 17 g-index
19 all docs	19 docs citations	19 times ranked	1428 citing authors

#	Article	IF	Citations
1	Molecular Origin of Balanced Bipolar Transport in Neat Layers of the Emitter CzDBA. Advanced Materials Technologies, 2021, 6, 2000120.	5.8	9
2	Intrinsic efficiency limits in low-bandgap non-fullerene acceptor organic solar cells. Nature Materials, 2021, 20, 378-384.	27.5	257
3	Impact of Acceptor Quadrupole Moment on Charge Generation and Recombination in Blends of IDTâ€Based Nonâ€Fullerene Acceptors with PCE10 as Donor Polymer. Advanced Energy Materials, 2021, 11, 2100839.	19.5	23
4	Reduced Intrinsic Nonâ€Radiative Losses Allow Roomâ€Temperature Triplet Emission from Purely Organic Emitters. Advanced Materials, 2021, 33, e2101844.	21.0	28
5	Chemical Design Rules for Nonâ€Fullerene Acceptors in Organic Solar Cells. Advanced Energy Materials, 2021, 11, 2102363.	19.5	38
6	Chemical Design Rules for Nonâ€Fullerene Acceptors in Organic Solar Cells (Adv. Energy Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	19.5	2
7	Long-range exciton diffusion in molecular non-fullerene acceptors. Nature Communications, 2020, 11, 5220.	12.8	204
8	Origin of the Ï€â€“Ï€ Spacing Change upon Doping of Semiconducting Polymers. Journal of Physical Chemistry C, 2018, 122, 27983-27990.	3.1	25
9	A model hamiltonian tuned toward high level ab initio calculations to describe the character of excitonic states in perylenebisimide aggregates. Journal of Computational Chemistry, 2018, 39, 1979-1989.	3.3	14
10	Functionalized Nickel Oxide Hole Contact Layers: Work Function versus Conductivity. ACS Applied Materials & Interfaces, 2017, 9, 39821-39829.	8.0	37
11	Influence of a polarizable surrounding on the electronically excited states of aggregated perylene materials. Journal of Computational Chemistry, 2016, 37, 1601-1610.	3.3	14
12	A general ansatz for constructing quasi-diabatic states in electronically excited aggregated systems. Journal of Chemical Physics, 2015, 143, 084106.	3.0	30
13	Identification of Ultrafast Relaxation Processes As a Major Reason for Inefficient Exciton Diffusion in Perylene-Based Organic Semiconductors. Journal of the American Chemical Society, 2014, 136, 9327-9337.	13.7	56
14	Explicitly correlated internally contracted multireference coupled-cluster singles and doubles theory: ic-MRCCSD(F12â^—). Chemical Physics Letters, 2013, 565, 122-127.	2.6	25
15	Ultrafast Exciton Self-Trapping upon Geometry Deformation in Perylene-Based Molecular Aggregates. Journal of Physical Chemistry Letters, 2013, 4, 792-796.	4.6	123
16	Comparison of the electronic structure of different peryleneâ€based dyeâ€aggregates. Journal of Computational Chemistry, 2012, 33, 1544-1553.	3.3	55
17	Assessment of TDâ€DFTâ€and TDâ€HFâ€based approaches for the prediction of exciton coupling parameters, potential energy curves, and electronic characters of electronically excited aggregates. Journal of Computational Chemistry, 2011, 32, 1971-1981.	3.3	70
18	Ultrafast Energy Transfer Triggers Ionization Energy Offset Dependence of Quantum Efficiency in Low-bandgap Non-fullerene Acceptor Solar Cells. , 0, , .		0