Zhenhuan Lu

List of Publications by Year
in descending order

18	1,292	623734	839539
papers	citations	14 h-index	18 g-index

19	19	19	1964
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Potential Perylene Diimide Dimerâ€Based Acceptor Material for Highly Efficient Solutionâ€Processed Nonâ€Fullerene Organic Solar Cells with 4.03% Efficiency. Advanced Materials, 2013, 25, 5791-5797.	21.0	444
2	Solution-Processed DPP-Based Small Molecule that Gives High Photovoltaic Efficiency with Judicious Device Optimization. ACS Applied Materials & Interfaces, 2013, 5, 2033-2039.	8.0	163
3	Peryleneâ€“Diimide Based Non-Fullerene Solar Cells with 4.34% Efficiency through Engineering Surface Donor/Acceptor Compositions. Chemistry of Materials, 2014, 26, 2907-2914.	6.7	150
4	In situ ion-exchange synthesis of SnS₂/g-C₃N₄ nanosheets heterojunction for enhancing photocatalytic activity. RSC Advances, 2016, 6, 10802-10809.	3.6	85
5	Additive-Assisted Control over Phase-Separated Nanostructures by Manipulating Alkylthienyl Position at Donor Backbone for Solution-Processed, Non-Fullerene, All-Small-Molecule Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 3853-3862.	8.0	70
6	Significant improvement of photovoltaic performance by embedding thiophene in solution-processed star-shaped TPA-DPP backbone. Journal of Materials Chemistry A, 2013, 1, 5747.	10.3	69
7	Benzodithiophene bridged dimeric perylene diimide amphiphiles as efficient solution-processed non-fullerene small molecules. Polymer Chemistry, 2013, 4, 4631.	3.9	66
8	In-situ ion-exchange synthesis Ag2S modified SnS2 nanosheets toward highly photocurrent response and photocatalytic activity. Journal of Colloid and Interface Science, 2018, 512, 784-791.	9.4	64
9	Impact of molecular solvophobicity vs. solvophilicity on device performances of dimeric perylene diimide based solution-processed non-fullerene organic solar cells. Physical Chemistry Chemical Physics, 2013, 15, 11375.	2.8	43
10	Effects of structure-manipulated molecular stacking on solid-state optical properties and device performances. Polymer Chemistry, 2012, 3, 2832.	3.9	41
11	A new solution-processed diketopyrrolopyrrole donor for non-fullerene small-molecule solar cells. Journal of Materials Chemistry A, 2014, 2, 1869-1876.	10.3	28
12	Large-scale, ultra-dense and vertically standing zinc phthalocyanine Ï€â€“Ï€ stacks as a hole-transporting layer on an ITO electrode. Journal of Materials Chemistry, 2012, 22, 23492.	6.7	18
13	Achieving ultra-narrow bandgap non-halogenated non-fullerene acceptors via vinylene Ï€-bridges for efficient organic solar cells. Materials Advances, 2021, 2, 2132-2140.	5.4	16
14	Edge-to-face stacking non-fullerene small molecule acceptor for bulk heterojunction solar cells. Dyes and Pigments, 2016, 132, 41-47.	3.7	15
15	The leverage effect of the relative strength of molecular solvophobicity vs. solvophilicity on fine-tuning nanomorphologies of perylene diimide bolaamphiphiles. Soft Matter, 2013, 9, 3089.	2.7	12
16	Chemically Bonded N-PDI-P/WO3 Organic-Inorganic Heterojunction with Improved Photoelectrochemical Performance. Catalysts, 2020, 10, 122.	3.5	4
17	A Novel Synthetic Method for the Preparation of Aliphatic Aldehydes from the Corresponding Carboxylic Acids. Chinese Journal of Chemistry, 2011, 29, 489-492.	4.9	3
18	Determination of the Mono and Dibromo Derivatives Ratio Resulting from Semiconductor Bromination Using Ultraviolet-visible Absorption Spectroscopy and Gaussian Peak Fitting. Analytical Sciences, 2021, 37, 569-573.	1.6	1