

Wenbin Wang

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

2,140
citations

394421

19
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

2087
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Narrowband Photomultiplication Type Organic Photodetectors. Nano Letters, 2017, 17, 1995-2002.	9.1	278
2	Efficient ternary non-fullerene polymer solar cells with PCE of 11.92% and FF of 76.5%. Energy and Environmental Science, 2018, 11, 841-849.	30.8	210
3	Highly efficient ternary polymer solar cells by optimizing photon harvesting and charge carrier transport. Nano Energy, 2016, 22, 241-254.	16.0	196
4	Nematic liquid crystal materials as a morphology regulator for ternary small molecule solar cells with power conversion efficiency exceeding 10%. Journal of Materials Chemistry A, 2017, 5, 3589-3598.	10.3	173
5	Over 13% Efficiency Ternary Nonfullerene Polymer Solar Cells with Tilted Up Absorption Edge by Incorporating a Medium Bandgap Acceptor. Advanced Energy Materials, 2018, 8, 1801968.	19.5	167
6	Achieving EQE of 16,700% in P3HT:PC71BM based photodetectors by trap-assisted photomultiplication. Scientific Reports, 2015, 5, 9181.	3.3	165
7	Highly Sensitive Low Bandgap Perovskite Photodetectors with Response from Ultraviolet to the Near Infrared Region. Advanced Functional Materials, 2017, 27, 1703953.	14.9	148
8	Trap-Assisted Photomultiplication Polymer Photodetectors Obtaining an External Quantum Efficiency of 37-500%. ACS Applied Materials & Interfaces, 2015, 7, 5890-5897.	8.0	118
9	Organic Photodetectors with Gain and Broadband/Narrowband Response under Top/Bottom Illumination Conditions. Advanced Optical Materials, 2018, 6, 1800249.	7.3	108
10	Photomultiplication Type Organic Photodetectors with Broadband and Narrowband Response Ability. Advanced Optical Materials, 2018, 6, 1800001.	7.3	98
11	Photomultiplication photodetectors with P3HT:fullerene-free material as the active layers exhibiting a broad response. Nanoscale, 2016, 8, 5578-5586.	5.6	77
12	Highly Sensitive Organic Photodetectors with Tunable Spectral Response under Bi-Directional Bias. Advanced Optical Materials, 2016, 4, 1711-1717.	7.3	75
13	Highly sensitive polymer photodetectors with a broad spectral response range from UV light to the near infrared region. Journal of Materials Chemistry C, 2015, 3, 7386-7393.	5.5	72
14	Revealing the working mechanism of polymer photodetectors with ultra-high external quantum efficiency. Physical Chemistry Chemical Physics, 2015, 17, 30712-30720.	2.8	66
15	Improved Performance of Photomultiplication Polymer Photodetectors by Adjustment of P3HT Molecular Arrangement. ACS Applied Materials & Interfaces, 2015, 7, 22660-22668.	8.0	57
16	Photomultiplication type narrowband organic photodetectors working at forward and reverse bias. Physical Chemistry Chemical Physics, 2017, 19, 14424-14430.	2.8	41
17	High efficient ternary polymer solar cells based on absorption complementary materials as electron donor. Solar Energy Materials and Solar Cells, 2015, 141, 154-161.	6.2	33
18	Synthesis of CeO ₂ nanoparticles with different morphologies and their properties as peroxidase mimic. Journal of the American Ceramic Society, 2019, 102, 2218-2227.	3.8	25

#	ARTICLE	IF	CITATIONS
19	Improved photomultiplication in inverted-structure organic photodetectors via interfacial engineering. Applied Physics Letters, 2018, 113, .	3.3	19
20	Highly sensitive polymer photodetectors with a wide spectral response range. Chinese Physics B, 2017, 26, 018201.	1.4	11
21	Investigation on the Secondary Generation of Natural Gas Hydrates in Horizontal Wellbore Caused by Pressure Jump during the Depressurization Development of Hydrate Bearing Layers. Geofluids, 2020, 2020, 1-14.	0.7	3