Wei-Hsuan Chang

List of Publications by Year
in descending order

21 papers	7,944 citations	471509 17 h-index	713466 21 g-index
22 all docs	22 docs citations	22 times ranked	11639 citing authors

#	ARTICLE	IF	CITATIONS
1	Solution-processed hybrid perovskite photodetectors with high detectivity. Nature Communications, 2014, 5, 5404.	12.8	2,214
2	Improved air stability of perovskite solar cells via solution-processed metal oxide transport layers. Nature Nanotechnology, 2016, 11, 75-81.	31.5	1,890
3	An Efficient Tripleâ€Junction Polymer Solar Cell Having a Power Conversion Efficiency Exceeding 11%. Advanced Materials, 2014, 26, 5670-5677.	21.0	752
4	Moisture assisted perovskite film growth for high performance solar cells. Applied Physics Letters, 2014, 105, .	3.3	667
5	High-performance multiple-donor bulk heterojunction solar cells. Nature Photonics, 2015, 9, 190-198.	31.4	489
6	A Seleniumâ€Substituted Lowâ€Bandgap Polymer with Versatile Photovoltaic Applications. Advanced Materials, 2013, 25, 825-831.	21.0	396
7	Synthesis of 5<i>H</i>-Dithieno[3,2-<i>b</i>:2â€²,3â€²-<i>d</i>]pyran as an Electron-Rich Building Block for Donorâ€"Acceptor Type Low-Bandgap Polymers. Macromolecules, 2013, 46, 3384-3390.	4.8	299
8	Low-bandgap conjugated polymers enabling solution-processable tandem solar cells. Nature Reviews Materials, 2017, 2, .	48.7	284
9	Perovskite Solar Cells Employing Dopantâ€Free Organic Hole Transport Materials with Tunable Energy Levels. Advanced Materials, 2016, 28, 440-446.	21.0	249
10	High-performance semi-transparent polymer solar cells possessing tandem structures. Energy and Environmental Science, 2013, 6, 2714.	30.8	170
11	Perovskite/polymer monolithic hybrid tandem solar cells utilizing a low-temperature, full solution process. Materials Horizons, 2015, 2, 203-211.	12.2	148
12	Working Mechanism for Flexible Perovskite Solar Cells with Simplified Architecture. Nano Letters, 2015, 15, 6514-6520.	9.1	91
13	Sideâ€Chain Tunability via Triple Component Random Copolymerization for Better Photovoltaic Polymers. Advanced Energy Materials, 2014, 4, 1300864.	19.5	81
14	A Selenophene Containing Benzodithiophene-<i>alt</i>-thienothiophene Polymer for Additive-Free High Performance Solar Cell. Macromolecules, 2015, 48, 562-568.	4.8	59
15	Elucidating Double Aggregation Mechanisms in the Morphology Optimization of Diketopyrrolopyrroleâ€Based Narrow Bandgap Polymer Solar Cells. Advanced Materials, 2014, 26, 3142-3147.	21.0	52
16	Improving Structural Order for a Highâ€Performance Diketopyrrolopyrroleâ€Based Polymer Solar Cell with a Thick Active Layer. Advanced Energy Materials, 2014, 4, 1300739.	19.5	43
17	Synthesis, micellar structures, and multifunctional sensory properties of poly(3â€hexylthiophene)â€<i>block</i>â€poly(2â€(dimethylamino)ethyl methacrylate) rodâ€coil diblock copolymers. Journal of Polymer Science Part A, 2011, 49, 147-155.	2.3	27
18	Synthesis of 5<i>H</i>-Dithieno[3,2-<i>b</i>:2â€²,3â€²-<i>d</i>]pyran as an Electron-Rich Building Block for Donorâ€"Acceptor Type Low-Bandgap Polymers. Macromolecules, 2013, 46, 4734-4734.	4.8	17

#	Article	IF	Citations
19	Thin film morphologies of Ï€-conjugated rod-coil block copolymers with thermoresponsive property: A combined experimental and molecular simulation study. Journal of Chemical Physics, 2010, 132, 214901.	3.0	4
20	Simulation and Observation of Magnetic Particles Captured in Fluids Using High Temperature Superconductor Bulk. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.7	1
21	Simulation of Particle Trajectory Under Laminar Flow for MDDS Application. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	0