Yu-Wei Su

List of Publications by Year
in descending order

32 papers	1,410 citations	394421 19 h-index	434195 31 g-index
32 all docs	32 docs citations	32 times ranked	2267 citing authors

#	Article	IF	Citations
1	Organic photovoltaics. Materials Today, 2012, 15, 554-562.	14.2	391
2	Solution-Processed Zinc Oxide/Polyethylenimine Nanocomposites as Tunable Electron Transport Layers for Highly Efficient Bulk Heterojunction Polymer Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 6273-6281.	8.0	120
3	Inkjet printed chalcopyrite CuInxGa1â^'xSe2 thin film solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 2616-2620.	6.2	110
4	Evolving molecular architectures of donorâ€“acceptor conjugated polymers for photovoltaic applications: from one-dimensional to branched to two-dimensional structures. Journal of Materials Chemistry A, 2017, 5, 24051-24075.	10.3	97
5	Conjugated Polymer/Nanocrystal Nanocomposites for Renewable Energy Applications in Photovoltaics and Photocatalysis. Small, 2014, 10, 4427-4442.	10.0	96
6	Complementary solvent additives tune the orientation of polymer lamellae, reduce the sizes of aggregated fullerene domains, and enhance the performance of bulk heterojunction solar cells. Journal of Materials Chemistry A, 2014, 2, 20760-20769.	10.3	76
7	Improved Blend Film Morphology and Free Carrier Generation Provide a High-Performance Ternary Polymer Solar Cell. ACS Applied Materials & Interfaces, 2021, 13, 1076-1085.	8.0	62
8	Energy transfer within small molecule/conjugated polymer blends enhances photovoltaic efficiency. Journal of Materials Chemistry A, 2017, 5, 18053-18063.	10.3	51
9	Molecular engineering of side chain architecture of conjugated polymers enhances performance of photovoltaics by tuning ternary blend structures. Nano Energy, 2018, 43, 138-148.	16.0	51
10	Block Copolymer-Tuned Fullerene Electron Transport Layer Enhances the Efficiency of Perovskite Photovoltaics. ACS Applied Materials & Interfaces, 2016, 8, 24603-24611.	8.0	37
11	Distribution of Crystalline Polymer and Fullerene Clusters in Both Horizontal and Vertical Directions of High-Efficiency Bulk Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 5413-5422.	8.0	28
12	A polymer donor with versatility for fabricating high-performance ternary organic photovoltaics. Chemical Engineering Journal, 2022, 431, 133950.	12.7	25
13	Enhancing performance of ternary blend photovoltaics by tuning the side chains of two-dimensional conjugated polymer. Organic Electronics, 2019, 71, 185-193.	2.6	22
14	Dense CdS thin films on fluorine-doped tin oxide coated glass by high-rate microreactor-assisted solution deposition. Thin Solid Films, 2013, 532, 16-21.	1.8	21
15	Linear solubilizing side chain substituents enhance the photovoltaic properties of two-dimensional conjugated benzodithiophene-based polymers. Polymer, 2015, 79, 262-270.	3.8	21
16	Structural Evolution of Crystalline Conjugated Polymer/Fullerene Domains from Solution to the Solid State in the Presence and Absence of an Additive. Journal of Physical Chemistry C, 2015, 119, 3408-3417.	3.1	20
17	Fluorene Conjugated Polymer/Nickel Oxide Nanocomposite Hole Transport Layer Enhances the Efficiency of Organic Photovoltaic Devices. ACS Applied Materials & Interfaces, 2017, 9, 2232-2239.	8.0	20
18	Dual nanocomposite carrier transport layers enhance the efficiency of planar perovskite photovoltaics. RSC Advances, 2018, 8, 12526-12534.	3.6	20

#	Article	IF	Citations
19	Highâ€Efficiency Organic Tandem Solar Cells With Effective Transition Metal Chelates Interconnecting Layer. Solar Rrl, 2017, 1, 1700139.	5.8	19
20	Surface properties of buffer layers affect the performance of PM6:Y6â€“based organic photovoltaics. Organic Electronics, 2020, 87, 105944.	2.6	19
21	High-Performance organic photodiodes for Blue-Light hazard detection. Chemical Engineering Journal, 2022, 437, 135327.	12.7	19
22	A block copolymer enhances the efficiency of small-molecule bulk-heterojunction photovoltaics. Journal of Materials Chemistry A, 2016, 4, 2228-2235.	10.3	18
23	Realizing Stable Highâ€Performance and Lowâ€Energyâ€Loss Ternary Photovoltaics through Judicious Selection of the Third Component. Solar Rrl, 2021, 5, 2100450.	5.8	18
24	Si-Bridged Ladder-Type Small-Molecule Acceptors for High-Performance Organic Photovoltaics. ACS Applied Materials & Interfaces, 2019, 11, 1125-1134.	8.0	15
25	Investigation of CdS nanoparticles formation and deposition by the continuous flow microreactor. Applied Surface Science, 2019, 472, 158-164.	6.1	8
26	The effects of gallium on solution-derived indium oxide-based thin film transistors manufactured on display glass. RSC Advances, 2015, 5, 93779-93785.	3.6	7
27	Efficient Charge Transfer and Carrier Extraction in All-Polymer Solar Cells Using an Acceptor Filler. ACS Applied Energy Materials, 2020, 3, 4217-4225.	5.1	6
28	Characterization and Optimization of Silver-Modified In_{0.2}Cd_{0.8}S-Based Photocatalysts. ACS Omega, 2019, 4, 21214-21222.	3.5	5
29	Density functional theory study of donorâ€“acceptor conjugated polymers with substituent effect. Journal of Polymer Research, 2021, 28, 1.	2.4	4
30	Optoelectronic Properties of a Benzodithiophene-Based Organic Photovoltaic. ECS Journal of Solid State Science and Technology, 2021, 10, 075003.	1.8	3
31	Quantum Dots: Conjugated Polymer/Nanocrystal Nanocomposites for Renewable Energy Applications in Photovoltaics and Photocatalysis (Small 22/2014). Small, 2014, 10, 4426-4426.	10.0	1
32	Nanocrystalline semiconductors for thin-film devices by microreactor-assisted chemical solution deposition. , 2021, , 167-194.		0