

Chao Yi

List of Publications by Year in descending order

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papers

1,830
citations

361413

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32
times ranked

3494
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Junction Polymer Solar Cells with Over 10% Efficiency by a Novel Two-Dimensional Donor-acceptor Conjugated Copolymer. ACS Applied Materials & Interfaces, 2015, 7, 4928-4935.	8.0	256
2	Inverted organic photovoltaic cells. Chemical Society Reviews, 2016, 45, 2937-2975.	38.1	185
3	Self-Powered Electronics by Integration of Flexible Solid-State Graphene-Based Supercapacitors with High Performance Perovskite Hybrid Solar Cells. Advanced Functional Materials, 2015, 25, 2420-2427.	14.9	142
4	Efficient Perovskite Hybrid Solar Cells by Highly Electrical Conductive PEDOT:PSS Hole Transport Layer. Advanced Energy Materials, 2016, 6, 1501773.	19.5	133
5	Efficient Perovskite Hybrid Photovoltaics via Alcohol-vapor Annealing Treatment. Advanced Functional Materials, 2016, 26, 101-110.	14.9	117
6	Ultrasensitive solution-processed perovskite hybrid photodetectors. Journal of Materials Chemistry C, 2015, 3, 6600-6606.	5.5	104
7	Efficient Solution-Processed Bulk Heterojunction Perovskite Hybrid Solar Cells. Advanced Energy Materials, 2015, 5, 1402024.	19.5	99
8	Enhanced Thermoelectric Properties of Poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) by Binary Secondary Dopants. ACS Applied Materials & Interfaces, 2015, 7, 8984-8989.	8.0	93
9	Efficient perovskite solar cells by hybrid perovskites incorporated with heterovalent neodymium cations. Nano Energy, 2019, 61, 352-360.	16.0	89
10	High-Performance Inverted Organic Photovoltaics with Over 1- μ m Thick Active Layers. Advanced Energy Materials, 2014, 4, 1400378.	19.5	83
11	Polyaniline-Modified Oriented Graphene Hydrogel Film as the Free-Standing Electrode for Flexible Solid-State Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 23932-23940.	8.0	77
12	Efficient Perovskite Hybrid Solar Cells via Ionomer Interfacial Engineering. Advanced Functional Materials, 2015, 25, 6875-6884.	14.9	57
13	Effects of Magnetic Nanoparticles and External Magnetostatic Field on the Bulk Heterojunction Polymer Solar Cells. Scientific Reports, 2015, 5, 9265.	3.3	52
14	Solution-Processed Fe ₃ O ₄ Magnetic Nanoparticle Thin Film Aligned by an External Magnetostatic Field as a Hole Extraction Layer for Polymer Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 10325-10330.	8.0	51
15	Fine-Tuning of Fluorinated Thieno[3,4-b]thiophene Copolymer for Efficient Polymer Solar Cells. Journal of Physical Chemistry C, 2013, 117, 4358-4363.	3.1	38
16	Interfacial engineering for high performance organic photovoltaics. Materials Today, 2016, 19, 169-177.	14.2	31
17	Enhanced Performance of Polymer Solar Cells using PEDOT:PSS Doped with Fe ₃ O ₄ Magnetic Nanoparticles Aligned by an External Magnetostatic Field as an Anode Buffer Layer. ACS Applied Materials & Interfaces, 2014, 6, 13201-13208.	8.0	30
18	Ultrasonic treatment of polycarbonate/carbon nanotubes composites. Polymer, 2016, 84, 209-222.	3.8	27

#	ARTICLE	IF	CITATIONS
19	Enhanced thermoelectric performance of F4-TCNQ doped FASnI ₃ thin films. Journal of Materials Chemistry A, 2020, 8, 25431-25442.	10.3	25
20	Conductive Water/Alcohol-Soluble Neutral Fullerene Derivative as an Interfacial Layer for Inverted Polymer Solar Cells with High Efficiency. ACS Applied Materials & Interfaces, 2014, 6, 14189-14195.	8.0	22
21	Highly electrically conductive polyethylenedioxythiophene thin films for thermoelectric applications. Journal of Materials Chemistry A, 2016, 4, 12730-12738.	10.3	20
22	Enhanced thermoelectric properties of two-dimensional conjugated polymers. Emergent Materials, 2018, 1, 67-76.	5.7	20
23	Efficient polymer solar cells fabricated from solvent processing additive solution. Journal of Materials Chemistry C, 2015, 3, 26-32.	5.5	17
24	A solution-processed near-infrared polymer: PbS quantum dot photodetectors. RSC Advances, 2017, 7, 34633-34637.	3.6	17
25	Efficient Organic Solar Cells with Polymer-Small Molecule: Fullerene Ternary Active Layers. ACS Omega, 2017, 2, 1786-1794.	3.5	11
26	Two-Dimensional Conjugated Polymeric Nanocrystals for Organic Electronics. ACS Applied Electronic Materials, 2019, 1, 1458-1464.	4.3	9
27	Towards high performance inverted polymer solar cells. Current Opinion in Chemical Engineering, 2013, 2, 125-131.	7.8	7
28	Protonation process of conjugated polyelectrolytes on enhanced power conversion efficiency in the inverted polymer solar cells. Journal of Photonics for Energy, 2014, 4, 043099.	1.3	7
29	Efficient Perovskite Hybrid Solar Cells via Controllable Crystallization Film Morphology. IEEE Journal of Photovoltaics, 2015, 5, 1402-1407.	2.5	4
30	Solution-processed broadband photodetectors without transparent conductive oxide electrodes. Journal of Materials Chemistry C, 2022, 10, 2783-2791.	5.5	4
31	A negative piezo-conductive effect from doped semiconducting polymer thin films. Scientific Reports, 2021, 11, 18222.	3.3	3