Zhigang Yin

List of Publications by Year
in descending order

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50 papers	3,230 citations	236925 25 h-index	223800 46 g-index
50 all docs	50 docs citations	50 times ranked	4287 citing authors

#	Article	IF	Citations
1	Applications of ZnO in organic and hybrid solar cells. Energy and Environmental Science, 2011, 4, 3861.	30.8	478
2	Interfacial Materials for Organic Solar Cells: Recent Advances and Perspectives. Advanced Science, 2016, 3, 1500362.	11.2	389
3	Controlled Synthesis and Energy Applications of Oneâ€Dimensional Conducting Polymer Nanostructures: An Overview. Advanced Energy Materials, 2012, 2, 179-218.	19.5	329
4	Technologies and perspectives for achieving carbon neutrality. Innovation(China), 2021, 2, 100180.	9.1	306
5	Artificial intelligence: A powerful paradigm for scientific research. Innovation(China), 2021, 2, 100179.	9.1	200
6	Micropatterned elastic ionic polyacrylamide hydrogel for low-voltage capacitive and organic thin-film transistor pressure sensors. Nano Energy, 2019, 58, 96-104.	16.0	123
7	CuO/polypyrrole coreâ€“shell nanocomposites as anode materials for lithium-ion batteries. Electrochemistry Communications, 2012, 20, 40-43.	4.7	115
8	Asymmetricâ€Indenothiopheneâ€Based Copolymers for Bulk Heterojunction Solar Cells with 9.14% Efficiency. Advanced Materials, 2016, 28, 3359-3365.	21.0	97
9	Bandgap Tunable Zn_{1â€x}Mg_xO Thin Films as Highly Transparent Cathode Buffer Layers for Highâ€Performance Inverted Polymer Solar Cells. Advanced Energy Materials, 2014, 4, 1301404.	19.5	93
10	Improving the charge transport of the ternary blend active layer for efficient semitransparent organic solar cells. Energy and Environmental Science, 2020, 13, 5177-5185.	30.8	75
11	Controllable ZnMgO Electronâ€Transporting Layers for Longâ€Term Stable Organic Solar Cells with 8.06% Efficiency after Oneâ€Year Storage. Advanced Energy Materials, 2016, 6, 1501493.	19.5	72
12	Polyelectrolyte Dielectrics for Flexible Lowâ€Voltage Organic Thinâ€Film Transistors in Highly Sensitive Pressure Sensing. Advanced Functional Materials, 2019, 29, 1806092.	14.9	71
13	Solutionâ€Processed Bilayer Dielectrics for Flexible Lowâ€Voltage Organic Fieldâ€Effect Transistors in Pressureâ€Sensing Applications. Advanced Science, 2018, 5, 1701041.	11.2	66
14	Interface Control of Semiconducting Metal Oxide Layers for Efficient and Stable Inverted Polymer Solar Cells with Open-Circuit Voltages over 1.0 Volt. ACS Applied Materials & Interfaces, 2013, 5, 9015-9025.	8.0	64
15	Micropatterned Elastic Goldâ€Nanowire/Polyacrylamide Composite Hydrogels for Wearable Pressure Sensors. Advanced Materials Technologies, 2018, 3, 1800051.	5.8	59
16	Shell Structure Control of PPy-Modified CuO Composite Nanoleaves for Lithium Batteries with Improved Cyclic Performance. ACS Sustainable Chemistry and Engineering, 2015, 3, 507-517.	6.7	54
17	Indacenodithiophene-based wide bandgap copolymers for high performance single-junction and tandem polymer solar cells. Nano Energy, 2017, 33, 313-324.	16.0	52
18	Low Band Gap Polymers Incorporating a Dicarboxylic Imide-Derived Acceptor Moiety for Efficient Polymer Solar Cells. ACS Macro Letters, 2013, 2, 605-608.	4.8	51

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19	Ladder-Type Dithienonaphthalene-Based Donorâ€“Acceptor Copolymers for Organic Solar Cells. Macromolecules, 2013, 46, 4813-4821.	4.8	40
20	Low-Temperature Solution-Processed Zinc Tin Oxide Film as a Cathode Interlayer for Organic Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 6186-6193.	8.0	40
21	Solution-derived poly(ethylene glycol)-TiO x nanocomposite film as a universal cathode buffer layer for enhancing efficiency and stability of polymer solar cells. Nano Research, 2015, 8, 456-468.	10.4	38
22	Long lifetime stable and efficient semitransparent organic solar cells using a ZnMgO-modified cathode combined with a thin MoO‹sub›3‹/sub›/Ag anode. Journal of Materials Chemistry A, 2017, 5, 3888-3899.	10.3	38
23	Binary polymer composite dielectrics for flexible low-voltage organic field-effect transistors. Organic Electronics, 2018, 53, 205-212.	2.6	35
24	Broadband organic photodetectors based on ternary blend active layers with enhanced and spectrally flat response. Journal of Materials Chemistry C, 2020, 8, 14049-14055.	5.5	31
25	Atomic Layer Deposition of Metal Oxides and Chalcogenides for High Performance Transistors. Advanced Science, 2022, 9, .	11.2	30
26	One-dimensional 8-hydroxyquinoline metal complex nanomaterials: synthesis, optoelectronic properties, and applications. Journal of Materials Science, 2011, 46, 2397-2409.	3.7	24
27	Tuning the frontier molecular orbital energy levels of ‹i›n‹/i›â€type conjugated copolymers by using angularâ€shaped naphthalene tetracarboxylic diimides, and their use in allâ€polymer solar cells with high openâ€circuit voltages. Journal of Polymer Science Part A, 2013, 51, 1999-2005.	2.3	23
28	Improving the photovoltaic performance of ladder-type dithienonaphthalene-containing copolymers through structural isomerization. Journal of Materials Chemistry A, 2014, 2, 13905-13915.	10.3	22
29	Diindenocarbazole-based large bandgap copolymers for high-performance organic solar cells with large open circuit voltages. Polymer Chemistry, 2014, 5, 6847-6856.	3.9	22
30	Hydrothermal synthesis of Î²-cobalt hydroxide with various morphologies in water/ethanol solutions. Materials Letters, 2011, 65, 41-43.	2.6	21
31	Sandwich structured dielectrics for air-stable and flexible low-voltage organic transistors in ultrasensitive pressure sensing. Materials Chemistry Frontiers, 2020, 4, 1459-1470.	5.9	21
32	Novel ladder-type heteroheptacene-based copolymers for bulk heterojunction solar cells. Journal of Materials Chemistry, 2012, 22, 16032.	6.7	19
33	Side-chain engineering of diindenocarbazole-based large bandgap copolymers toward high performance polymer solar cells. Journal of Materials Chemistry C, 2016, 4, 6160-6168.	5.5	14
34	High performance thermal-treatment-free tandem polymer solar cells with high fill factors. Organic Electronics, 2017, 47, 79-84.	2.6	14
35	Dielectric interface passivation of polyelectrolyte-gated organic field-effect transistors for ultrasensitive low-voltage pressure sensors in wearable applications. , 2022, 1, 100001.		14
36	Improved synthesis and photovoltaic performance of donorâ€“acceptor copolymers based on dibenzothiophene-cored ladder-type heptacyclic units. Journal of Materials Chemistry C, 2015, 3, 5631-5641.	5.5	13

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37	An anode buffer layer with size-controlled Ag nanoparticles for polymer solar cells with improved efficiencies. RSC Advances, 2015, 5, 16153-16161.	3.6	11
38	Ladder-type tetra-p-phenylene-based copolymers for efficient polymer solar cells with open-circuit voltages approaching 1.1 V. Journal of Materials Chemistry A, 2015, 3, 21672-21681.	10.3	11
39	High performance n-channel thin-film field-effect transistors based on angular-shaped naphthalene tetracarboxylic diimides. Organic Electronics, 2013, 14, 2859-2865.	2.6	9
40	Solution-processed MoS_xthin-films as hole-transport layers for efficient polymer solar cells. RSC Advances, 2016, 6, 39137-39143.	3.6	8
41	Ladderâ€type Diindenopyrazine Based Conjugated Copolymers for Organic Solar Cells with High Openâ€circuit Voltages. Chinese Journal of Chemistry, 2013, 31, 1409-1417.	4.9	7
42	Ladder-type heteroheptacene-cored semiconductors for small-molecule solar cells. Dyes and Pigments, 2018, 149, 747-754.	3.7	7
43	Impact of Different Intermediate Layers on the Morphology and Crystallinity of TiO₂ Grown on Carbon Nanotubes by Atomic Layer Deposition. Advanced Materials Interfaces, 2021, 8, 2100759.	3.7	7
44	Dinaphtho-s-indacene-based copolymers for inverted organic solar cells with high open-circuit voltages. Polymer, 2014, 55, 2262-2270.	3.8	5
45	Wearable Sensors: Micropatterned Elastic Gold-Nanowire/Polyacrylamide Composite Hydrogels for Wearable Pressure Sensors (Adv. Mater. Technol. 7/2018). Advanced Materials Technologies, 2018, 3, 1870029.	5.8	5
46	Dialkoxynaphthalene as an electron-rich unit for high-performance polymer solar cells with large open circuit voltages. Polymer, 2015, 67, 258-266.	3.8	3
47	Inverted Organic Solar Cells (OSCs). , 2014, , 215-242.		2
48	A Dual Post-Treatment Method for Improving the Performance of Ternary NiMgO Semiconductor Interfacial Layers and Their Organic Solar Cells^{â€»}. Acta Chimica Sinica, 2022, 80, 581.	1.4	2
49	Organic Solar Cells: Controllable ZnMgO Electron-Transporting Layers for Long-Term Stable Organic Solar Cells with 8.06% Efficiency after One-Year Storage (Adv. Energy Mater. 4/2016). Advanced Energy Materials, 2016, 6, n/a-n/a.	19.5	0
50	Call for papers on special issue â€œThin-film materials, devices and carrier dynamics for flexible electronicsâ€• Materials International, 2020, 2, 062-062.	0.6	0