

Nanjia Zhou

List of Publications by Year in descending order

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55
papers

5,757
citations

168829

31
h-index

214428

50
g-index

56
all docs

56
docs citations

56
times ranked

10061
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer solar cells with enhanced fill factors. <i>Nature Photonics</i> , 2013, 7, 825-833.	15.6	887
2	Solvent-Mediated Crystallization of CH ₃ NH ₃ Sn ₃ Films for Heterojunction Depleted Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 11445-11452.	6.6	598
3	Air-Stable Molecular Semiconducting Iodosalts for Solar Cell Applications: Cs ₂ Sn ₆ as a Hole Conductor. <i>Journal of the American Chemical Society</i> , 2014, 136, 15379-15385.	6.6	560
4	Slip-Stacked Perylenediimides as an Alternative Strategy for High Efficiency Nonfullerene Acceptors in Organic Photovoltaics. <i>Journal of the American Chemical Society</i> , 2014, 136, 16345-16356.	6.6	320
5	All-Polymer Solar Cell Performance Optimized via Systematic Molecular Weight Tuning of Both Donor and Acceptor Polymers. <i>Journal of the American Chemical Society</i> , 2016, 138, 1240-1251.	6.6	276
6	Bithiopheneimide-Dithienosilole/Dithienogermole Copolymers for Efficient Solar Cells: Information from Structure-Property-Device Performance Correlations and Comparison to Thieno[3,4- <i>c</i>]pyrrole-4,6-dione Analogues. <i>Journal of the American Chemical Society</i> , 2012, 134, 18427-18439.	6.6	257
7	Metal-Free Tetrathienoacene Sensitizers for High-Performance Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 4414-4423.	6.6	243
8	Morphology-Performance Relationships in High-Efficiency All-Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1300785.	10.2	227
9	Spray-combustion synthesis: Efficient solution route to high-performance oxide transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3217-3222.	3.3	175
10	Bithiophene Imide and Benzodithiophene Copolymers for Efficient Inverted Polymer Solar Cells. <i>Advanced Materials</i> , 2012, 24, 2242-2248.	11.1	158
11	Naphthalenediimide (NDI) polymers for all-polymer photovoltaics. <i>Materials Today</i> , 2018, 21, 377-390.	8.3	158
12	Dopant-Free Hole Transporting Polymers for High Efficiency, Environmentally Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600502.	10.2	156
13	Toward Highly Sensitive Polymer Photodetectors by Molecular Engineering. <i>Advanced Materials</i> , 2015, 27, 6496-6503.	11.1	136
14	Flexible spray-coated TIPS-pentacene organic thin-film transistors as ammonia gas sensors. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6532.	2.7	118
15	Ultra-Flexible, α -Invisible-Thin-Film Transistors Enabled by Amorphous Metal Oxide/Polymer Channel Layer Blends. <i>Advanced Materials</i> , 2015, 27, 2390-2399.	11.1	116
16	IR spectral evidence of aldol condensation: Acetaldehyde adsorption over TiO ₂ surface. <i>Journal of Catalysis</i> , 2008, 260, 371-379.	3.1	104
17	Perovskite nanowire-block copolymer composites with digitally programmable polarization anisotropy. <i>Science Advances</i> , 2019, 5, eaav8141.	4.7	103
18	Solution-Processed All-Oxide Transparent High-Performance Transistors Fabricated by Spray-Combustion Synthesis. <i>Advanced Electronic Materials</i> , 2016, 2, 1500427.	2.6	101

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19	Marked Consequences of Systematic Oligothiophene Catenation in Thieno[3,4-c]pyrrole-4,6-dione and Bithiopheneimide Photovoltaic Copolymers. <i>Journal of the American Chemical Society</i> , 2015, 137, 12565-12579.	6.6	89
20	Gigahertz Electromagnetic Structures via Direct Ink Writing for Radio-Frequency Oscillator and Transmitter Applications. <i>Advanced Materials</i> , 2017, 29, 1605198.	11.1	86
21	Alkoxy-Functionalized Thienyl-Vinylene Polymers for Field-Effect Transistors and All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2014, 24, 2782-2793.	7.8	83
22	Synergistic Approach to High-Performance Oxide Thin Film Transistors Using a Bilayer Channel Architecture. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7983-7988.	4.0	75
23	Ultraflexible Polymer Solar Cells Using Amorphous Zinc-Indium-Tin Oxide Transparent Electrodes. <i>Advanced Materials</i> , 2014, 26, 1098-1104.	11.1	70
24	Lanthanide-Ion-Coordinated Supramolecular Hydrogel Inks for 3D Printed Full-Color Luminescence and Opacity-Tuning Soft Actuators. <i>Chemistry of Materials</i> , 2020, 32, 8868-8876.	3.2	65
25	Electrohydrodynamic Jet Printing Driven by a Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2019, 29, 1901102.	7.8	59
26	Metals by Micro-Scale Additive Manufacturing: Comparison of Microstructure and Mechanical Properties. <i>Advanced Functional Materials</i> , 2020, 30, 1910491.	7.8	52
27	Substantial photovoltaic response and morphology tuning in benzo[1,2-b:6,5-b']dithiophene (bBDT) molecular donors. <i>Chemical Communications</i> , 2014, 50, 4099.	2.2	48
28	Diketopyrrolopyrrole (DPP) functionalized tetrathienothiophene (TTA) small molecules for organic thin film transistors and photovoltaic cells. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8932-8941.	2.7	48
29	Buta-1,3-diyne-Based π -Conjugated Polymers for Organic Transistors and Solar Cells. <i>Macromolecules</i> , 2017, 50, 1430-1441.	2.2	43
30	Amorphous oxide alloys as interfacial layers with broadly tunable electronic structures for organic photovoltaic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7897-7902.	3.3	41
31	Supersaturated-Self-Assembled Charge-Selective Interfacial Layers for Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 17762-17773.	6.6	36
32	Fabrication of Fe ₃ O ₄ /PAH/PSS@Pd core-shell microspheres by layer-by-layer assembly and application in catalysis. <i>Journal of Colloid and Interface Science</i> , 2014, 421, 1-5.	5.0	32
33	Water assisted oxygen absorption on the instability of amorphous InAlZnO thin-film transistors. <i>RSC Advances</i> , 2014, 4, 3145-3148.	1.7	31
34	Systematic evaluation of structure-property relationships in heteroacene diketopyrrolopyrrole molecular donors for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9217-9232.	5.2	31
35	Stability of amorphous InAlZnO thin-film transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014, 32, .	0.6	22
36	Cross-Linkable Molecular Hole-Transporting Semiconductor for Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16967-16975.	1.5	22

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37	Enhanced Fill Factor through Chalcogen Side-Chain Manipulation in Small-Molecule Photovoltaics. ACS Energy Letters, 2017, 2, 2415-2421.	8.8	18
38	Annulated Thienyl-Vinylene-Thienyl Building Blocks for π -Conjugated Copolymers: Ring Dimensions and Isomeric Structure Effects on π -Conjugation Length and Charge Transport. Chemistry of Materials, 2016, 28, 5772-5783.	3.2	17
39	Effects of 1,8-diiodooctane on domain nanostructure and charge separation dynamics in PC ₇₁ BM-based bulk heterojunction solar cells. Journal of Materials Chemistry A, 2018, 6, 23805-23818.	5.2	16
40	High-performance and operationally stable organic thin-film transistors using bi-buffer layers with low-cost electrodes. Journal Physics D: Applied Physics, 2013, 46, 385104.	1.3	13
41	Design and construction of a novel rotary magnetostrictive motor. Journal of Applied Physics, 2009, 105, 07F113.	1.1	11
42	Permalloy/polydimethylsiloxane nanocomposite inks for multimaterial direct ink writing of gigahertz electromagnetic structures. Journal of Materials Chemistry C, 2020, 8, 15099-15104.	2.7	11
43	Side Chain and Solvent Direction of Film Morphology in Small-Molecule Organic Solar Materials. Chemistry of Materials, 2019, 31, 8308-8319.	3.2	9
44	Charge generation mechanism tuned <i>via</i> film morphology in small molecule bulk-heterojunction photovoltaic materials. Journal of Materials Chemistry C, 2020, 8, 15234-15252.	2.7	8
45	Synthesis of ultralong Si ₃ N ₄ nanowires by a simple thermal evaporation method. Rare Metals, 2013, 32, 186-190.	3.6	6
46	Heavy Metal Exposure Leads to Rapid Changes in Cellular Biophysical Properties. ACS Biomaterials Science and Engineering, 2020, 6, 1965-1976.	2.6	6
47	Thermal Viscoelastic Analysis of 3D Fabric Nanocomposites. Advanced Materials Research, 0, 47-50, 1133-1136.	0.3	4
48	Enhanced Performance of Dye-Sensitized Solar Cells by Graphene-Incorporated Nanocrystalline TiO ₂ Films. Nanoscience and Nanotechnology Letters, 2013, 5, 154-158.	0.4	4
49	Smart bioelectronics and biomedical devices. Bio-Design and Manufacturing, 2022, 5, 1-5.	3.9	4
50	Charge Transport and Recombination in Organic Solar Cells (OSCs). , 2014, , 19-52.		2
51	Microwave-Assisted Synthesis of SnO ₂ Coated Mesocarbon Microbeads for Lithium Ion Batteries. Nanoscience and Nanotechnology Letters, 2015, 7, 476-480.	0.4	1
52	CdS Sensitized Nanocrystalline TiO ₂ Films by Ultrasonic Spray Pyrolysis Deposition for Quantum Dot-Sensitized Solar Cells. Nanoscience and Nanotechnology Letters, 2014, 6, 404-408.	0.4	1
53	Enhanced Performance of CdS Quantum Dot Sensitized Solar Cells by Low Temperature Vacuum Annealing. Nanoscience and Nanotechnology Letters, 2013, 5, 277-281.	0.4	0
54	Screen-Printed Multiwall Carbon Nanotubes Film as a Counter Electrode for High Efficiency Dye-Sensitized Solar Cells. Nanoscience and Nanotechnology Letters, 2014, 6, 588-591.	0.4	0

#	ARTICLE	IF	CITATIONS
55	A coaxial sensor with 3D printing detect the dielectric spectrum of biological liquid up to 130GHz. , 2018, , .		0