

Nanjia Zhou

List of Publications by Year in descending order

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55
papers

5,757
citations

147801

31
h-index

189892

50
g-index

56
all docs

56
docs citations

56
times ranked

8581
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart bioelectronics and biomedical devices. <i>Bio-Design and Manufacturing</i> , 2022, 5, 1-5.	7.7	4
2	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.	6.7	65
3	Charge generation mechanism tuned <i>via</i> film morphology in small molecule bulk-heterojunction photovoltaic materials. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15234-15252.	5.5	8
4	Permalloy/polydimethylsiloxane nanocomposite inks for multimaterial direct ink writing of gigahertz electromagnetic structures. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15099-15104.	5.5	11
5	Heavy Metal Exposure Leads to Rapid Changes in Cellular Biophysical Properties. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1965-1976.	5.2	6
6	Metals by Micro-Scale Additive Manufacturing: Comparison of Microstructure and Mechanical Properties. <i>Advanced Functional Materials</i> , 2020, 30, 1910491.	14.9	52
7	Side Chain and Solvent Direction of Film Morphology in Small-Molecule Organic Solar Materials. <i>Chemistry of Materials</i> , 2019, 31, 8308-8319.	6.7	9
8	Perovskite nanowire-block copolymer composites with digitally programmable polarization anisotropy. <i>Science Advances</i> , 2019, 5, eaav8141.	10.3	103
9	Electrohydrodynamic Jet Printing Driven by a Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2019, 29, 1901102.	14.9	59
10	Naphthalenediimide (NDI) polymers for all-polymer photovoltaics. <i>Materials Today</i> , 2018, 21, 377-390.	14.2	158
11	Effects of 1,8-diiodooctane on domain nanostructure and charge separation dynamics in PCBM-based bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23805-23818.	10.3	16
12	A coaxial sensor with 3D printing detect the dielectric spectrum of biological liquid up to 130GHz. , 2018, , .		0
13	Buta-1,3-diyne-Based π -Conjugated Polymers for Organic Transistors and Solar Cells. <i>Macromolecules</i> , 2017, 50, 1430-1441.	4.8	43
14	Gigahertz Electromagnetic Structures via Direct Ink Writing for Radio-Frequency Oscillator and Transmitter Applications. <i>Advanced Materials</i> , 2017, 29, 1605198.	21.0	86
15	Systematic evaluation of structure-property relationships in heteroacene π -diketopyrrolopyrrole molecular donors for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9217-9232.	10.3	31
16	Enhanced Fill Factor through Chalcogen Side-Chain Manipulation in Small-Molecule Photovoltaics. <i>ACS Energy Letters</i> , 2017, 2, 2415-2421.	17.4	18
17	Dopant-Free Hole Transporting Polymers for High Efficiency, Environmentally Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600502.	19.5	156
18	Annulated Thienyl-Vinylene-Thienyl Building Blocks for π -Conjugated Copolymers: Ring Dimensions and Isomeric Structure Effects on π -Conjugation Length and Charge Transport. <i>Chemistry of Materials</i> , 2016, 28, 5772-5783.	6.7	17

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19	Solution-Processed All-Oxide Transparent High-Performance Transistors Fabricated by Spray-Combustion Synthesis. <i>Advanced Electronic Materials</i> , 2016, 2, 1500427.	5.1	101
20	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.	13.7	276
21	Microwave-Assisted Synthesis of SnO ₂ /Coated Mesocarbon Microbeads for Lithium Ion Batteries. <i>Nanoscience and Nanotechnology Letters</i> , 2015, 7, 476-480.	0.4	1
22	Toward Highly Sensitive Polymer Photodetectors by Molecular Engineering. <i>Advanced Materials</i> , 2015, 27, 6496-6503.	21.0	136
23	Ultra-Flexible, "Invisible" Thin-Film Transistors Enabled by Amorphous Metal Oxide/Polymer Channel Layer Blends. <i>Advanced Materials</i> , 2015, 27, 2390-2399.	21.0	116
24	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.	5.5	48
25	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.	7.1	41
26	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.	7.1	175
27	Metal-Free Tetrathienoacene Sensitizers for High-Performance Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 4414-4423.	13.7	243
28	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.	13.7	89
29	Solvent-Mediated Crystallization of CH ₃ NH ₃ SnI ₃ Films for Heterojunction Depleted Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 11445-11452.	13.7	598
30	Stability of amorphous InAlZnO thin-film transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014, 32, .	1.2	22
31	Screen-Printed Multiwall Carbon Nanotubes Film as a Counter Electrode for High Efficiency Dye-Sensitized Solar Cells. <i>Nanoscience and Nanotechnology Letters</i> , 2014, 6, 588-591.	0.4	0
32	"Supersaturated" Self-Assembled Charge-Selective Interfacial Layers for Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 17762-17773.	13.7	36
33	Alkoxy-Functionalized Thienyl-Vinylene Polymers for Field-Effect Transistors and All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2014, 24, 2782-2793.	14.9	83
34	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.	9.4	32
35	Morphology-Performance Relationships in High-Efficiency All-Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1300785.	19.5	227
36	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.	13.7	320

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37	Water assisted oxygen absorption on the instability of amorphous InAlZnO thin-film transistors. RSC Advances, 2014, 4, 3145-3148.	3.6	31
38	Substantial photovoltaic response and morphology tuning in benzo[1,2-b:6,5-b'']dithiophene (bBDT) molecular donors. Chemical Communications, 2014, 50, 4099.	4.1	48
39	Air-Stable Molecular Semiconducting Iodosalts for Solar Cell Applications: Cs ₂ SnI ₆ as a Hole Conductor. Journal of the American Chemical Society, 2014, 136, 15379-15385.	13.7	560
40	Cross-Linkable Molecular Hole-Transporting Semiconductor for Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16967-16975.	3.1	22
41	Ultraflexible Polymer Solar Cells Using Amorphous Zinc~Indium~Tin Oxide Transparent Electrodes. Advanced Materials, 2014, 26, 1098-1104.	21.0	70
42	Charge Transport and Recombination in Organic Solar Cells (OSCs). , 2014, , 19-52.		2
43	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
44	Synthesis of ultralong Si ₃ N ₄ nanowires by a simple thermal evaporation method. Rare Metals, 2013, 32, 186-190.	7.1	6
45	Polymer solar cells with enhanced fill factors. Nature Photonics, 2013, 7, 825-833.	31.4	887
46	Synergistic Approach to High-Performance Oxide Thin Film Transistors Using a Bilayer Channel Architecture. ACS Applied Materials & Interfaces, 2013, 5, 7983-7988.	8.0	75
47	Flexible spray-coated TIPS-pentacene organic thin-film transistors as ammonia gas sensors. Journal of Materials Chemistry C, 2013, 1, 6532.	5.5	118
48	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.	2.8	13
49	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
50	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
51	Bithiopheneimide~Dithienosilole/Dithienogermole Copolymers for Efficient Solar Cells: Information from Structure~Property~Device Performance Correlations and Comparison to Thieno[3,4-c]pyrrole-4,6-dione Analogues. Journal of the American Chemical Society, 2012, 134, 18427-18439.	13.7	257
52	Bithiophene Imide and Benzodithiophene Copolymers for Efficient Inverted Polymer Solar Cells. Advanced Materials, 2012, 24, 2242-2248.	21.0	158
53	Design and construction of a novel rotary magnetostrictive motor. Journal of Applied Physics, 2009, 105, 07F113.	2.5	11
54	IR spectral evidence of aldol condensation: Acetaldehyde adsorption over TiO ₂ surface. Journal of Catalysis, 2008, 260, 371-379.	6.2	104

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55	Thermal Viscoelastic Analysis of 3D Fabric Nanocomposites. Advanced Materials Research, 0, 47-50, 1133-1136.	0.3	4