Nanjia Zhou

List of Publications by Year
in descending order

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55	5,757	147801	189892
papers	citations	31 h-index	50 g-index

56	56	56	8581
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Polymer solar cells with enhanced fill factors. Nature Photonics, 2013, 7, 825-833.	31.4	887
2	Solvent-Mediated Crystallization of CH₃NH₃SnI₃ Films for Heterojunction Depleted Perovskite Solar Cells. Journal of the American Chemical Society, 2015, 137, 11445-11452.	13.7	598
3	Air-Stable Molecular Semiconducting Iodosalts for Solar Cell Applications: Cs₂SnI₆ as a Hole Conductor. Journal of the American Chemical Society, 2014, 136, 15379-15385.	13.7	560
4	Slip-Stacked Perylenediimides as an Alternative Strategy for High Efficiency Nonfullerene Acceptors in Organic Photovoltaics. Journal of the American Chemical Society, 2014, 136, 16345-16356.	13.7	320
5	All-Polymer Solar Cell Performance Optimized via Systematic Molecular Weight Tuning of Both Donor and Acceptor Polymers. Journal of the American Chemical Society, 2016, 138, 1240-1251.	13.7	276
6	Bithiopheneimideâ€“Dithienosilole/Dithienogermole Copolymers for Efficient Solar Cells: Information from Structureâ€“Propertyâ€“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
7	Metal-Free Tetrathienoacene Sensitizers for High-Performance Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2015, 137, 4414-4423.	13.7	243
8	Morphologyâ€Performance Relationships in Highâ€Efficiency Allâ€Polymer Solar Cells. Advanced Energy Materials, 2014, 4, 1300785.	19.5	227
9	Spray-combustion synthesis: Efficient solution route to high-performance oxide transistors. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3217-3222.	7.1	175
10	Bithiophene Imide and Benzodithiophene Copolymers for Efficient Inverted Polymer Solar Cells. Advanced Materials, 2012, 24, 2242-2248.	21.0	158
11	Naphthalenediimide (NDI) polymers for all-polymer photovoltaics. Materials Today, 2018, 21, 377-390.	14.2	158
12	Dopantâ€Free Hole Transporting Polymers for High Efficiency, Environmentally Stable Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1600502.	19.5	156
13	Toward Highly Sensitive Polymer Photodetectors by Molecular Engineering. Advanced Materials, 2015, 27, 6496-6503.	21.0	136
14	Flexible spray-coated TIPS-pentacene organic thin-film transistors as ammonia gas sensors. Journal of Materials Chemistry C, 2013, 1, 6532.	5.5	118
15	Ultraâ€Flexible, â€œInvisibleâ€•Thinâ€Film Transistors Enabled by Amorphous Metal Oxide/Polymer Channel Layer Blends. Advanced Materials, 2015, 27, 2390-2399.	21.0	116
16	IR spectral evidence of aldol condensation: Acetaldehyde adsorption over TiO2 surface. Journal of Catalysis, 2008, 260, 371-379.	6.2	104
17	Perovskite nanowireâ€“block copolymer composites with digitally programmable polarization anisotropy. Science Advances, 2019, 5, eaav8141.	10.3	103
18	Solutionâ€Processed Allâ€Oxide Transparent Highâ€Performance Transistors Fabricated by Sprayâ€Combustion Synthesis. Advanced Electronic Materials, 2016, 2, 1500427.	5.1	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. Journal of the American Chemical Society, 2015, 137, 12565-12579.	13.7	89
20	Gigahertz Electromagnetic Structures via Direct Ink Writing for Radioâ€Frequency Oscillator and Transmitter Applications. Advanced Materials, 2017, 29, 1605198.	21.0	86
21	Alkoxyâ€Functionalized Thienylâ€Vinylene Polymers for Fieldâ€Effect Transistors and Allâ€Polymer Solar Cells. Advanced Functional Materials, 2014, 24, 2782-2793.	14.9	83
22	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
23	Ultraflexible Polymer Solar Cells Using Amorphous Zincâ^'Indiumâ^'Tin Oxide Transparent Electrodes. Advanced Materials, 2014, 26, 1098-1104.	21.0	70
24	Lanthanide-Ion-Coordinated Supramolecular Hydrogel Inks for 3D Printed Full-Color Luminescence and Opacity-Tuning Soft Actuators. Chemistry of Materials, 2020, 32, 8868-8876.	6.7	65
25	Electrohydrodynamic Jet Printing Driven by a Triboelectric Nanogenerator. Advanced Functional Materials, 2019, 29, 1901102.	14.9	59
26	Metals by Microâ€Scale Additive Manufacturing: Comparison of Microstructure and Mechanical Properties. Advanced Functional Materials, 2020, 30, 1910491.	14.9	52
27	Substantial photovoltaic response and morphology tuning in benzo[1,2-b:6,5-bâ€²]dithiophene (bBDT) molecular donors. Chemical Communications, 2014, 50, 4099.	4.1	48
28	Diketopyrrolopyrrole (DPP) functionalized tetrathienothiophene (TTA) small molecules for organic thin film transistors and photovoltaic cells. Journal of Materials Chemistry C, 2015, 3, 8932-8941.	5.5	48
29	Buta-1,3-diyne-Based Ï€-Conjugated Polymers for Organic Transistors and Solar Cells. Macromolecules, 2017, 50, 1430-1441.	4.8	43
30	Amorphous oxide alloys as interfacial layers with broadly tunable electronic structures for organic photovoltaic cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7897-7902.	7.1	41
31	â€œSupersaturatedâ€•Self-Assembled Charge-Selective Interfacial Layers for Organic Solar Cells. Journal of the American Chemical Society, 2014, 136, 17762-17773.	13.7	36
32	Fabrication of Fe3O4/PAH/PSS@Pd coreâ€“shell microspheres by layer-by-layer assembly and application in catalysis. Journal of Colloid and Interface Science, 2014, 421, 1-5.	9.4	32
33	Water assisted oxygen absorption on the instability of amorphous InAlZnO thin-film transistors. RSC Advances, 2014, 4, 3145-3148.	3.6	31
34	Systematic evaluation of structureâ€“property relationships in heteroacene â€“ diketopyrrolopyrrole molecular donors for organic solar cells. Journal of Materials Chemistry A, 2017, 5, 9217-9232.	10.3	31
35	Stability of amorphous InAlZnO thin-film transistors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, .	1.2	22
36	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

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37	Enhanced Fill Factor through Chalcogen Side-Chain Manipulation in Small-Molecule Photovoltaics. ACS Energy Letters, 2017, 2, 2415-2421.	17.4	18
38	Annulated Thienyl-Vinylene-Thienyl Building Blocks for Ï€-Conjugated Copolymers: Ring Dimensions and Isomeric Structure Effects on Ï€-Conjugation Length and Charge Transport. Chemistry of Materials, 2016, 28, 5772-5783.	6.7	17
39	Effects of 1,8-diiodooctane on domain nanostructure and charge separation dynamics in PC₇₁BM-based bulk heterojunction solar cells. Journal of Materials Chemistry A, 2018, 6, 23805-23818.	10.3	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.	2.8	13
41	Design and construction of a novel rotary magnetostrictive motor. Journal of Applied Physics, 2009, 105, 07F113.	2.5	11
42	Permalloy/polydimethylsiloxane nanocomposite inks for multimaterial direct ink writing of gigahertz electromagnetic structures. Journal of Materials Chemistry C, 2020, 8, 15099-15104.	5.5	11
43	Side Chain and Solvent Direction of Film Morphology in Small-Molecule Organic Solar Materials. Chemistry of Materials, 2019, 31, 8308-8319.	6.7	9
44	Charge generation mechanism tuned via film morphology in small molecule bulk-heterojunction photovoltaic materials. Journal of Materials Chemistry C, 2020, 8, 15234-15252.	5.5	8
45	Synthesis of ultralong Si3N4 nanowires by a simple thermal evaporation method. Rare Metals, 2013, 32, 186-190.	7.1	6
46	Heavy Metal Exposure Leads to Rapid Changes in Cellular Biophysical Properties. ACS Biomaterials Science and Engineering, 2020, 6, 1965-1976.	5.2	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 TiO₂ 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.	7.7	4
50	Charge Transport and Recombination in Organic Solar Cells (OSCs). , 2014, , 19-52.		2
51	Microwave-Assisted Synthesis of SnO₂ Coated Mesocarbon Microbeads for Lithium Ion Batteries. Nanoscience and Nanotechnology Letters, 2015, 7, 476-480.	0.4	1
52	CdS Sensitized Nanocrystalline TiO₂ 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

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