

Zhengran He

List of Publications by Year in descending order

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41
papers

1,215
citations

361045

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docs citations

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times ranked

785
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Performance Consistency in Nanoparticle/TIPS Pentacene-Based Organic Thin Film Transistors. <i>Advanced Functional Materials</i> , 2011, 21, 3617-3623.	7.8	81
2	Conjugated Polymer-Mediated Polymorphism of a High Performance, Small-Molecule Organic Semiconductor with Tuned Intermolecular Interactions, Enhanced Long-Range Order, and Charge Transport. <i>Chemistry of Materials</i> , 2013, 25, 4378-4386.	3.2	77
3	Self-assembly diketopyrrolopyrrole-based materials and polymer blend with enhanced crystal alignment and property for organic field-effect transistors. <i>Organic Electronics</i> , 2019, 65, 96-99.	1.4	68
4	Switching phase separation mode by varying the hydrophobicity of polymer additives in solution-processed semiconducting small-molecule/polymer blends. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	65
5	Air-flow navigated crystal growth for TIPS pentacene-based organic thin-film transistors. <i>Organic Electronics</i> , 2012, 13, 1819-1826.	1.4	61
6	Nanoparticles for organic electronics applications. <i>Materials Research Express</i> , 2020, 7, 012004.	0.8	61
7	Improving performance of TIPS pentacene-based organic thin film transistors with small-molecule additives. <i>Organic Electronics</i> , 2014, 15, 150-155.	1.4	60
8	Highly enhanced performance of integrated piezo photo-transistor with dual inverted OLED gate and nanowire array channel. <i>Nano Energy</i> , 2019, 66, 104101.	8.2	55
9	Temperature gradient controlled crystal growth from TIPS pentacene-poly(\pm -methyl styrene) blends for improving performance of organic thin film transistors. <i>Organic Electronics</i> , 2016, 32, 195-199.	1.4	52
10	Solution-grown small-molecule organic semiconductor with enhanced crystal alignment and areal coverage for organic thin film transistors. <i>AIP Advances</i> , 2015, 5, .	0.6	48
11	Solution-based 5,6,11,12-tetrachlorotetracene crystal growth for high-performance organic thin film transistors. <i>Organic Electronics</i> , 2015, 22, 191-196.	1.4	46
12	Review Article: Crystal alignment for high performance organic electronics devices. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, 040801.	0.9	42
13	Air-stable solution-processed <i>n</i> -channel organic thin film transistors with polymer-enhanced morphology. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	40
14	Polymer additive controlled morphology for high performance organic thin film transistors. <i>Soft Matter</i> , 2019, 15, 5790-5803.	1.2	40
15	Conjugated Polymer Controlled Morphology and Charge Transport of Small-Molecule Organic Semiconductors. <i>Scientific Reports</i> , 2020, 10, 4344.	1.6	39
16	Layer-dependent anisotropic frictional behavior in two-dimensional monolayer hybrid perovskite/ITO layered heterojunctions. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2540-2546.	1.3	31
17	High Performance and Efficiency Resonant Photo-Effect-Transistor by Near-Field Nano-Strip-Controlled Organic Light Emitting Diode Gate. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6526-6534.	2.1	24
18	Self-assembly crystal microribbons with nucleation additive for high-performance organic thin film transistors. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 061009.	0.8	23

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19	Ultra-low misorientation angle in small-molecule semiconductor/polyethylene oxide blends for organic thin film transistors. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	23
20	Long-range crystal alignment with polymer additive for organic thin film transistors. <i>Journal of Polymer Research</i> , 2019, 26, 1.	1.2	22
21	Manipulate organic crystal morphology and charge transport. <i>Organic Electronics</i> , 2022, 103, 106448.	1.4	21
22	Small-molecule additives for organic thin film transistors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 20899-20913.	1.1	20
23	Poly(β -methylstyrene) polymer and small-molecule semiconductor blend with reduced crystal misorientation for organic thin film transistors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 14335-14343.	1.1	19
24	Effect of Polymer Molecular Weight on Morphology and Charge Transport of Small-Molecular Organic Semiconductors. <i>Electronic Materials Letters</i> , 2020, 16, 441-450.	1.0	19
25	Nanoscale alignment of semiconductor crystals for high-fidelity organic electronics applications. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 787-795.	1.6	18
26	Phase segregation controlled semiconductor crystallization for organic thin film transistors. <i>Journal of Science: Advanced Materials and Devices</i> , 2020, 5, 151-163.	1.5	17
27	A facile and novel route to improve TIPS pentacene based organic thin film transistor performance with elastomer. <i>Synthetic Metals</i> , 2020, 262, 116337.	2.1	17
28	Photo-Triggered Logic Circuits Assembled on Integrated Illuminants and Resonant Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46501-46508.	4.0	17
29	Modifying Electrical and Magnetic Properties of Single-Walled Carbon Nanotubes by Decorating with Iron Oxide Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 2611-2616.	0.9	14
30	Tailoring the molecular weight of polymer additives for organic semiconductors. <i>Materials Advances</i> , 2022, 3, 1953-1973.	2.6	14
31	Polyacrylate polymer assisted crystallization: Improved charge transport and performance consistency for solution-processable small-molecule semiconductor based organic thin film transistors. <i>Journal of Science: Advanced Materials and Devices</i> , 2019, 4, 467-472.	1.5	12
32	Phase segregation effect on TIPS pentacene crystallization and morphology for organic thin film transistors. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 4503-4510.	1.1	9
33	Crystal growth of small-molecule organic semiconductors with nucleation additive. <i>Current Applied Physics</i> , 2021, 21, 107-115.	1.1	9
34	Dynamic photonic perovskite light-emitting diodes with post-treatment-enhanced crystallization as writable and wipeable inscribers. <i>Nanoscale Advances</i> , 2021, 3, 6659-6668.	2.2	9
35	Large-Dimensional Organic Semiconductor Crystals with Poly(butyl acrylate) Polymer for Solution-Processed Organic Thin Film Transistors. <i>Electronic Materials Letters</i> , 2021, 17, 33-42.	1.0	8
36	Polyferrocenylsilane Semicrystalline Polymer Additive for Solution-Processed p-Channel Organic Thin Film Transistors. <i>Polymers</i> , 2021, 13, 402.	2.0	7

#	ARTICLE	IF	CITATIONS
37	Tuning charge transport in organic semiconductors with nanoparticles and hexamethyldisilazane. Journal of Nanoparticle Research, 2021, 23, 1.	0.8	7
38	Poly(butyl acrylate) polymer enhanced phase segregation and morphology of organic semiconductor for solution-processed thin film transistors. Journal of Applied Polymer Science, 2021, 138, 50654.	1.3	7
39	Ultra-high resolution position sensors with self-assembled nanowire arrays. Journal of Materials Chemistry C, 2020, 8, 9954-9959.	2.7	4
40	Poly(α -methyl styrene) polymer additive for organic thin film transistors. Journal of Materials Science: Materials in Electronics, 2022, 33, 1101-1122.	1.1	3
41	Organic Semiconductors with Benzoic Acid Based Additives for Solution- Processed Thin Film Transistors. Current Chinese Science, 2021, 1, 306-314.	0.2	0