

Boyu Peng

List of Publications by Year in descending order

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25
papers

1,297
citations

567281

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580821

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docs citations

26
times ranked

1840
citing authors

#	ARTICLE	IF	CITATIONS
1	A Low-Operating-Power and Flexible Active-Matrix Organic-Transistor Temperature-Sensor Array. <i>Advanced Materials</i> , 2016, 28, 4832-4838.	21.0	265
2	Solution-Processed Monolayer Organic Crystals for High-Performance Field-Effect Transistors and Ultrasensitive Gas Sensors. <i>Advanced Functional Materials</i> , 2017, 27, 1700999.	14.9	172
3	Small contact resistance and high-frequency operation of flexible low-voltage inverted coplanar organic transistors. <i>Nature Communications</i> , 2019, 10, 1119.	12.8	163
4	Marangoni-Effect-Assisted Bar-Coating Method for High-Quality Organic Crystals with Compressive and Tensile Strains. <i>Advanced Functional Materials</i> , 2017, 27, 1703443.	14.9	129
5	High performance organic transistor active-matrix driver developed on paper substrate. <i>Scientific Reports</i> , 2014, 4, 6430.	3.3	110
6	Crystallized Monolayer Semiconductor for Ohmic Contact Resistance, High Intrinsic Gain, and High Current Density. <i>Advanced Materials</i> , 2020, 32, e2002281.	21.0	81
7	Highly Sensitive Metabolite Biosensor Based on Organic Electrochemical Transistor Integrated with Microfluidic Channel and Poly(N-vinyl-2-pyrrolidone)-Capped Platinum Nanoparticles. <i>Advanced Materials Technologies</i> , 2016, 1, 1600042.	5.8	68
8	A simulation-assisted solution-processing method for a large-area, high-performance C_{10} -DNTT organic semiconductor crystal. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8628-8633.	5.5	54
9	Understanding the Meniscus-Guided Coating Parameters in Organic Field-Effect Transistor Fabrications. <i>Advanced Functional Materials</i> , 2020, 30, 1905963.	14.9	46
10	Direct Patterning of Self-Assembled Monolayers by Stamp Printing Method and Applications in High Performance Organic Field-Effect Transistors and Complementary Inverters. <i>Advanced Functional Materials</i> , 2015, 25, 6112-6121.	14.9	43
11	Achieving Ultralow Turn-On Voltages in Organic Thin-Film Transistors: Investigating Fluoroalkylphosphonic Acid Self-Assembled Monolayer Hybrid Dielectrics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27104-27111.	8.0	30
12	Ambipolar Organic Field-Effect Transistors Based on a Dual-Function, Ultrathin and Highly Crystalline 2,9-didicyldinaphtho[2,3-b:2',3'-f]thieno[3,2-b]thiophene (C_{10} -DNTT) Layer. <i>Advanced Materials</i> , 2017, 3, 1700268.	15.6	17
13	Scaling Up Principles for Solution-Processed Organic Single-Crystalline Heterojunctions. <i>Chemistry of Materials</i> , 2021, 33, 19-38.	6.7	17
14	Crystallization from a Droplet: Single-Crystalline Arrays and Heterojunctions for Organic Electronics. <i>Accounts of Chemical Research</i> , 2021, 54, 4498-4507.	15.6	17
15	Fully transparent organic transistors with junction-free metallic network electrodes. <i>Applied Physics Letters</i> , 2015, 107, 033302.	3.3	16
16	The Origin of Low Contact Resistance in Monolayer Organic Field-Effect Transistors with van der Waals Electrodes. <i>Small Science</i> , 2022, 2, .	9.9	16
17	A Transfer Method for High-Mobility, Bias-Stable, and Flexible Organic Field-Effect Transistors. <i>Advanced Materials Technologies</i> , 2020, 5, 2000169.	5.8	14
18	Thermal Annealing Effect on the Thermal and Electrical Properties of Organic Semiconductor Thin Films. <i>MRS Advances</i> , 2016, 1, 1637-1643.	0.9	7

#	ARTICLE	IF	CITATIONS
19	Bending TIPS-pentacene single crystals: from morphology to transistor performance. Journal of Materials Chemistry C, 2021, 9, 5621-5627.	5.5	6
20	Epitaxy of an Organic Semiconductor Templated by Molecular Monolayer Crystals. ACS Applied Electronic Materials, 2021, 3, 752-760.	4.3	5
21	Single-crystal dielectrics for organic field-effect transistors. Journal of Materials Chemistry C, 2022, 10, 4985-4998.	5.5	4
22	Organic Field-Effect Transistor Fabricated on Internal Shrinking Substrate. Small, 2022, 18, e2106066.	10.0	4
23	Micro-electrodes for in situ temperature and bio-impedance measurement. Nano Select, 2021, 2, 1986.	3.7	3
24	Thin-Film Semiconductors: Ambipolar Organic Field-Effect Transistors Based on a Dual-Function, Ultrathin and Highly Crystalline 2,9-didecyldinaphtho[2,3-b:2',3'-f]thieno[3,2-b]thiophene (C ₁₀ -DNTT) Layer (Adv. Electron. Mater. 12/2017). Advanced Electronic Materials, 2017, 3, 1770057.	5.1	2
25	Effect of Aromatic Solvents Residuals on Electron Mobility of Organic Single Crystals. Advanced Electronic Materials, 0, , 2200158.	5.1	2