Boyu Peng

List of Publications by Year
in descending order

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25 papers	1,297 citations	623188 14 h-index	580395 25 g-index
26 all docs	26 docs citations	26 times ranked	1840 citing authors

#	Article	IF	Citations
1	Single-crystal dielectrics for organic field-effect transistors. Journal of Materials Chemistry C, 2022, 10, 4985-4998.	2.7	4
2	The Origin of Low Contact Resistance in Monolayer Organic Fieldâ€Effect Transistors with van der Waals Electrodes. Small Science, 2022, 2, .	5.8	16
3	Organic Fieldâ€Effect Transistor Fabricated on Internal Shrinking Substrate. Small, 2022, 18, e2106066.	5.2	4
4	Epitaxy of an Organic Semiconductor Templated by Molecular Monolayer Crystals. ACS Applied Electronic Materials, 2021, 3, 752-760.	2.0	5
5	Microâ€electrodes for in situ temperature and bioâ€impedance measurement. Nano Select, 2021, 2, 1986.	1.9	3
6	Bending TIPS-pentacene single crystals: from morphology to transistor performance. Journal of Materials Chemistry C, 2021, 9, 5621-5627.	2.7	6
7	Scaling Up Principles for Solution-Processed Organic Single-Crystalline Heterojunctions. Chemistry of Materials, 2021, 33, 19-38.	3.2	17
8	Crystallization from a Droplet: Single-Crystalline Arrays and Heterojunctions for Organic Electronics. Accounts of Chemical Research, 2021, 54, 4498-4507.	7.6	17
9	Understanding the Meniscusâ€Guided Coating Parameters in Organic Fieldâ€Effectâ€Transistor Fabrications. Advanced Functional Materials, 2020, 30, 1905963.	7.8	46
10	Crystallized Monolayer Semiconductor for Ohmic Contact Resistance, High Intrinsic Gain, and High Current Density. Advanced Materials, 2020, 32, e2002281.	11.1	81
11	A Transfer Method for Highâ€Mobility, Biasâ€Stable, and Flexible Organic Fieldâ€Effect Transistors. Advanced Materials Technologies, 2020, 5, 2000169.	3.0	14
12	Achieving Ultralow Turn-On Voltages in Organic Thin-Film Transistors: Investigating Fluoroalkylphosphonic Acid Self-Assembled Monolayer Hybrid Dielectrics. ACS Applied Materials & Interfaces, 2019, 11, 27104-27111.	4.0	30
13	Small contact resistance and high-frequency operation of flexible low-voltage inverted coplanar organic transistors. Nature Communications, 2019, 10, 1119.	5.8	163
14	Solutionâ€Processed Monolayer Organic Crystals for Highâ€Performance Fieldâ€Effect Transistors and Ultrasensitive Gas Sensors. Advanced Functional Materials, 2017, 27, 1700999.	7.8	172
15	Ambipolar Organic Fieldâ€Effect Transistors Based on a Dualâ€Function, Ultrathin and Highly Crystalline 2,9â€didecyldinaphtho[2,3â€b:2â€²,3â€²â€f]thieno[3,2â€b]thiophene (C₁₀â€DNTT) Layer. Advanced Electronic Materials, 2017, 3, 1700268.	2.6	22
16	Marangoniâ€Effectâ€Assisted Barâ€Coating Method for Highâ€Quality Organic Crystals with Compressive and Tensile Strains. Advanced Functional Materials, 2017, 27, 1703443.	7.8	129
17	Thinâ€Film Semiconductors: Ambipolar Organic Fieldâ€Effect Transistors Based on a Dualâ€Function, Ultrathin and Highly Crystalline 2,9â€didecyldinaphtho[2,3â€b:2â€²,3â€²â€f]thieno[3,2â€b]thiophene (C₁₀â€DNTT) Layer (Adv. Electron. Mater. 12/2017). Advanced Electronic Materials, 2017, 3, 1770057.	2.6	2
18	Highly Sensitive Metabolite Biosensor Based on Organic Electrochemical Transistor Integrated with Microfluidic Channel and Poly(Nâ€vinylâ€2â€pyrrolidone)â€Capped Platinum Nanoparticles. Advanced Materials Technologies, 2016, 1, 1600042.	3.0	68

#	Article	IF	Citations
19	Thermal Annealing Effect on the Thermal and Electrical Properties of Organic Semiconductor Thin Films. MRS Advances, 2016, 1, 1637-1643.	0.5	7
20	A simulation-assisted solution-processing method for a large-area, high-performance C₁₀-DNTT organic semiconductor crystal. Journal of Materials Chemistry C, 2016, 4, 8628-8633.	2.7	54
21	A Lowâ€Operatingâ€Power and Flexible Activeâ€Matrix Organicâ€Transistor Temperatureâ€Sensor Array. Advanced Materials, 2016, 28, 4832-4838.	11.1	265
22	Fully transparent organic transistors with junction-free metallic network electrodes. Applied Physics Letters, 2015, 107, 033302.	1.5	16
23	Direct Patterning of Selfâ€Assembled Monolayers by Stamp Printing Method and Applications in High Performance Organic Fieldâ€Effect Transistors and Complementary Inverters. Advanced Functional Materials, 2015, 25, 6112-6121.	7.8	43
24	High performance organic transistor active-matrix driver developed on paper substrate. Scientific Reports, 2014, 4, 6430.	1.6	110
25	Effect of Aromatic Solvents Residuals on Electron Mobility of Organic Single Crystals. Advanced Electronic Materials, 0, , 2200158.	2.6	2