Wei Wang

List of Publications by Year
in descending order

37 papers	786 citations	471509 17 h-index	526287 27 g-index
37 all docs	37 docs citations	37 times ranked	852 citing authors

#	Article	IF	Citations
1	Dual-Band, High-Performance Phototransistors from Hybrid Perovskite and Organic Crystal Array for Secure Communication Applications. ACS Nano, 2019, 13, 5910-5919.	14.6	72
2	Highly Reliable Top-Gated Thin-Film Transistor Memory with Semiconducting, Tunneling, Charge-Trapping, and Blocking Layers All of Flexible Polymers. ACS Applied Materials & Interfaces, 2015, 7, 10957-10965.	8.0	65
3	Organic Transistor Nonvolatile Memory with Three-Level Information Storage and Optical Detection Functions. ACS Applied Materials & Interfaces, 2020, 12, 21952-21960.	8.0	44
4	Excellent low-voltage operating flexible ferroelectric organic transistor nonvolatile memory with a sandwiching ultrathin ferroelectric film. Scientific Reports, 2017, 7, 8890.	3.3	43
5	Organic floating-gate transistor memory based on the structure of pentacene/nanoparticle-Al/Al2O3. Applied Physics Letters, 2010, 96, 203304.	3.3	42
6	Nonvolatile Transistor Memory with Self-Assembled Semiconducting Polymer Nanodomain Floating Gates. ACS Applied Materials & Interfaces, 2016, 8, 33863-33873.	8.0	37
7	Low-voltage operating flexible ferroelectric organic field-effect transistor nonvolatile memory with a vertical phase separation P(VDF-TrFE-CTFE)/PS dielectric. Applied Physics Letters, 2017, 111, .	3.3	30
8	Organic Thin-Film Transistor Memory With Nanoparticle Floating Gate. IEEE Transactions on Electron Devices, 2009, 56, 1036-1039.	3.0	29
9	Ambipolar organic thin-film transistor-based nano-floating-gate nonvolatile memory. Applied Physics Letters, 2014, 104, 013302.	3.3	29
10	Gate-controlled multi-bit nonvolatile ferroelectric organic transistor memory on paper substrates. Journal of Materials Chemistry C, 2019, 7, 13477-13485.	5.5	29
11	Achieving high mobility, low-voltage operating organic field-effect transistor nonvolatile memory by an ultraviolet-ozone treating ferroelectric terpolymer. Scientific Reports, 2016, 6, 36291.	3.3	27
12	Wellâ€Balanced Ambipolar Organic Single Crystals toward Highly Efficient Lightâ€Emitting Devices. Advanced Functional Materials, 2020, 30, 2002422.	14.9	22
13	MoO₃ Modification Layer to Enhance Performance of Pentacene-OTFTs With Various Low-Cost Metals as Source/Drain Electrodes. IEEE Transactions on Electron Devices, 2014, 61, 3507-3512.	3.0	21
14	High Mobility Flexible Ferroelectric Organic Transistor Nonvolatile Memory With an Ultrathin ${ext {AlO}}_{{X}}$ Interfacial Layer. IEEE Transactions on Electron Devices, 2018, 65, 1113-1118.	3.0	21
15	Low-voltage programmable/erasable high performance flexible organic transistor nonvolatile memory based on a tetratetracontane passivated ferroelectric terpolymer. Organic Electronics, 2019, 64, 62-70.	2.6	21
16	Multilevel memory characteristics by light-assisted programming in floating-gate organic thin-film transistor nonvolatile memory. Current Applied Physics, 2015, 15, 770-775.	2.4	19
17	High reliable and stable organic field-effect transistor nonvolatile memory with a poly(4-vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 2016, 108, .	3.3	19
18	Optical Programming/Electrical Erasing Memory Device Based on Low-Voltage Organic Thin-Film Transistor. IEEE Transactions on Electron Devices, 2012, 59, 1510-1513.	3.0	17

#	Article	IF	Citations
19	Solution Processed Top-Gate High-Performance Organic Transistor Nonvolatile Memory With Separated Molecular Microdomains Floating-Gate. IEEE Electron Device Letters, 2017, 38, 641-644.	3.9	17
20	Solution Processed Organic Transistor Nonvolatile Memory With a Floating-Gate of Carbon Nanotubes. IEEE Electron Device Letters, 2018, 39, 111-114.	3.9	17
21	High-performance flexible organic thin-film transistor nonvolatile memory based on molecular floating-gate and pn-heterojunction channel layer. Applied Physics Letters, 2020, 116, .	3.3	17
22	Effect of tunneling layers on the performances of floating-gate based organic thin-film transistor nonvolatile memories. Applied Physics Letters, 2014, 105, 123303.	3.3	15
23	Improving Mobility and Stability of Organic Field-Effect Transistors by Employing a Tetratetracontane Modifying PMMA Dielectric. IEEE Transactions on Electron Devices, 2016, 63, 4440-4444.	3.0	15
24	Organic Fieldâ€Effect Transistor Nonvolatile Memories with Hydroxylâ€Rich Polymer Materials as Functional Gate Dielectrics. Advanced Electronic Materials, 2019, 5, 1900569.	5.1	13
25	Molecular floating-gate organic nonvolatile memory with a fully solution processed core architecture. Applied Physics Letters, 2016, 109, .	3.3	12
26	Organic transistor nonvolatile memory with an integrated molecular floating-gate/tunneling layer. Applied Physics Letters, 2018, 113, .	3.3	12
27	High-k polymer materials containing cyclic carbonate as gate dielectrics for application in low-voltage operating organic thin-film transistors. Journal of Materials Chemistry C, 2019, 7, 15357-15363.	5.5	12
28	Low-voltage p-channel, n-channel and ambipolar organic thin-film transistors based on an ultrathin inorganic/polymer hybrid gate dielectric layer. Organic Electronics, 2014, 15, 2568-2574.	2.6	10
29	Low-Voltage Operated Organic Thin-Film Transistors With Mobility Exceeding 10 cmÂ²/vs. IEEE Electron Device Letters, 2021, 42, 398-401.	3.9	10
30	High Mobility n-Channel Organic Field-Effect Transistor Based a Tetratetracontane Interfacial Layer on Gate Dielectrics. IEEE Electron Device Letters, 2016, 37, 1632-1635.	3.9	9
31	High-performance polymer semiconductor-based ferroelectric transistor nonvolatile memory with a self-organized ferroelectric/dielectric gate insulator. Applied Physics Letters, 2021, 118, .	3.3	9
32	Controllable molecular doping in organic single crystals toward high-efficiency light-emitting devices. Organic Electronics, 2021, 91, 106089.	2.6	7
33	High Mobility Pentacene/C60-Based Ambipolar OTFTs by Thickness Optimization of Bottom Pentacene Layer. IEEE Transactions on Electron Devices, 2014, 61, 3845-3851.	3.0	6
34	Solution processed nonvolatile polymer transistor memory with discrete distributing molecular semiconductor microdomains as the charge trapping sites. Semiconductor Science and Technology, 2018, 33, 095003.	2.0	6
35	High-Mobility, Low-Voltage Programmable/Erasable Ferroelectric Polymer Transistor Nonvolatile Memory Based on a P(VDF-TrFE)/PMMA Bilayer Gate Insulator. IEEE Transactions on Electron Devices, 2021, 68, 3359-3364.	3.0	6
36	Functional gate-dielectrics containing naphthyl for organic thin film transistors. Organic Electronics, 2019, 73, 219-225.	2.6	4

#	Article	IF	Citations
37	Highly stable, low-voltage operable high-mobility flexible organic thin-film transistors based on a tri-layer gate dielectric. Flexible and Printed Electronics, 2022, 7, 014012.	2.7	2