Wei Tang

List of Publications by Year
in descending order

68 papers	1,718 citations	346980 22 h-index	325983 40 g-index
69 all docs	69 docs citations	69 times ranked	2342 citing authors

#	Article	IF	Citations
1	Supramolecular optical sensor arrays for on-site analytical devices. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2022, 51, 100475.	5.6	17
2	Low-Temperature Solution-Processed All Organic Integration for Large-Area and Flexible High-Resolution Imaging. IEEE Journal of the Electron Devices Society, 2022, 10, 821-826.	1.2	11
3	Multi-Oxyanion Detection by an Organic Field-Effect Transistor with Pattern Recognition Techniques and Its Application to Quantitative Phosphate Sensing in Human Blood Serum. ACS Applied Materials & Interfaces, 2022, 14, 22903-22911.	4.0	17
4	Solution processed low power organic field-effect transistor bio-chemical sensor of high transconductance efficiency. Npj Flexible Electronics, 2022, 6, .	5.1	18
5	Batch-producible fibrous microelectrodes for enzyme-free electrochemical detection of glucose. Journal of Materials Science: Materials in Electronics, 2022, 33, 11511-11522.	1.1	2
6	Printed 384â€Well Microtiter Plate on Paper for Fluorescent Chemosensor Arrays in Food Analysis. Chemistry - an Asian Journal, 2022, 17, .	1.7	7
7	Thin-film transistor arrays for biological sensing systems. Flexible and Printed Electronics, 2022, 7, 023004.	1.5	4
8	Detection of polyamines by an extended gate-type organic transistor functionalized with a carboxylate attached 1,3,4-thiadiazole derivative. Journal of Materials Chemistry C, 2021, 9, 11690-11697.	2.7	8
9	Large Area and Flexible Organic Active Matrix Image Sensor Array Fabricated by Solution Coating Processes at Low Temperature. , 2021, , .		1
10	Circuit Design and Experimental Verification of Low-voltage Organic Field-effect Transistor-based Common Source Amplifier. , 2021, , .		0
11	Through-Plastic-Via Three-Dimensional Integration for Integrated Organic Field-Effect Transistor Bio-Chemical Sensor Chip. IEEE Electron Device Letters, 2021, 42, 569-572.	2.2	12
12	3â€3: Invited Paper: Development of Organic TFT Technology for Activeâ€Matrix Display Backplane. Digest of Technical Papers SID International Symposium, 2021, 52, 9-12.	0.1	5
13	Toward Food Freshness Monitoring: Coordination Bindingâ€“Based Colorimetric Sensor Array for Sulfur-Containing Amino Acids. Frontiers in Chemistry, 2021, 9, 685783.	1.8	11
14	Chemical sensing based on water-gated polythiophene thin-film transistors. Polymer Journal, 2021, 53, 1315-1323.	1.3	2
15	FrÃ¶hlich polaron effect in flexible low-voltage organic thin-film transistors gated with high-k polymer dielectrics. Journal Physics D: Applied Physics, 2021, 54, 444001.	1.3	4
16	Polythiophene-Based Chemical Sensors: Toward On-Site Supramolecular Analytical Devices. Bulletin of the Chemical Society of Japan, 2021, 94, 2613-2622.	2.0	15
17	Low-Temperature Packaging of Ion-Sensitive Organic Field-Effect Transistors on Plastic for Multiple Ion Detection. IEEE Journal of the Electron Devices Society, 2021, 9, 1237-1242.	1.2	4
18	Manipulating the Sensitivity and Selectivity of OECTâ€Based Biosensors via the Surface Engineering of Carbon Cloth Gate Electrodes. Advanced Functional Materials, 2020, 30, 1905361.	7.8	53

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19	Printable Low Power Organic Transistor Technology for Customizable Hybrid Integration Towards Internet of Everything. IEEE Journal of the Electron Devices Society, 2020, 8, 1219-1226.	1.2	19
20	Printable Low Power Organic Transistor for Highly Customizable IoT Devices. , 2020, , .		3
21	An ultrasensitive biosensor for fast detection of Salmonella using 3D magnetic grid separation and urease catalysis. Biosensors and Bioelectronics, 2020, 157, 112160.	5.3	38
22	Fast Measurement With Chemical Sensors Based on Sliding Window Sampling and Mixed-Feature Extraction. IEEE Sensors Journal, 2020, 20, 8740-8745.	2.4	4
23	Ordered mesoporous carbon sphere-based solid-contact ion-selective electrodes. Journal of Materials Science, 2019, 54, 13674-13684.	1.7	15
24	Reducing contact resistance in bottom contact organic field effect transistors for integrated electronics. Journal Physics D: Applied Physics, 2019, 53, 014002.	1.3	17
25	A Flexible Acetylcholinesterase-Modified Graphene for Chiral Pesticide Sensor. Journal of the American Chemical Society, 2019, 141, 14643-14649.	6.6	67
26	Recent progress in printable organic field effect transistors. Journal of Materials Chemistry C, 2019, 7, 790-808.	2.7	113
27	36.3: Low Voltage Organic TFTs with Large Area Compatible Coating Process. Digest of Technical Papers SID International Symposium, 2019, 50, 402-402.	0.1	0
28	Scalable Processing of Low Voltage Organic Field Effect Transistors With a Facile Soft-Contact Coating Approach. IEEE Electron Device Letters, 2019, 40, 1945-1948.	2.2	22
29	Integrated Low Voltage Ion Sensing Organic Field Effect Transistor System on Plastic. IEEE Electron Device Letters, 2018, 39, 591-594.	2.2	21
30	Improved Sensitivity of Inkjet-Printed PEDOT:PSS Ammonia Sensor With â€œNonidealâ€•Morphology. , 2018, 2, 1-4.		3
31	High carrier mobility low-voltage ZnO thin film transistors fabricated at a low temperature via solution processing. Ceramics International, 2018, 44, 11751-11756.	2.3	30
32	Solution-processable organic and hybrid gate dielectrics for printed electronics. Materials Science and Engineering Reports, 2018, 127, 1-36.	14.8	79
33	Highly Sensitive Low Power Ion-sensitive Organic Thin-Film Transistors. , 2018, , .		4
34	Solution Processed Steep Subthreshold OFETs for Low-power and High Sensitivity Bio-chemical Sensing. , 2018, , .		0
35	All-Additive Solution Processed Silver/Silver Chloride Reference Electrode for Handheld Ion-Sensitive Field-Effect Transistor Sensing System. , 2018, 2, 1-4.		6
36	Subthreshold-Operated Low-Voltage Organic Field-Effect Transistor for Ion-Sensing System of High Transduction Sensitivity. , 2018, 2, 1-4.		7

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37	Highly Uniform Carbon Sheets with Orientation-Adjustable Ordered Mesopores. ACS Nano, 2018, 12, 5436-5444.	7.3	86
38	Flexible-Blade Coating of Small Molecule Organic Semiconductor for Low Voltage Organic Field Effect Transistor. IEEE Electron Device Letters, 2017, 38, 338-340.	2.2	24
39	Universal Compact Model for Thin-Film Transistors and Circuit Simulation for Low-Cost Flexible Large Area Electronics. IEEE Transactions on Electron Devices, 2017, 64, 2030-2037.	1.6	31
40	Bias Stress Stability Improvement in Solution-Processed Low-Voltage Organic Field-Effect Transistors Using Relaxor Ferroelectric Polymer Gate Dielectric. IEEE Electron Device Letters, 2017, 38, 748-751.	2.2	42
41	Current Status and Opportunities of Organic Thin-Film Transistor Technologies. IEEE Transactions on Electron Devices, 2017, 64, 1906-1921.	1.6	224
42	Stable Thin-Film Reference Electrode on Plastic Substrate for All-Solid-State Ion-Sensitive Field-Effect Transistor Sensing System. IEEE Electron Device Letters, 2017, 38, 1469-1472.	2.2	26
43	Probing the intrinsic charge transport in indacenodithiophene-co-benzothiadiazole thin films. AIP Advances, 2017, 7, .	0.6	9
44	Fully Solution Processed Bottom-Gate Organic Field-Effect Transistor With Steep Subthreshold Swing Approaching the Theoretical Limit. IEEE Electron Device Letters, 2017, 38, 1465-1468.	2.2	41
45	Room Temperature Grown Highâ€Quality Polymerâ€Like Carbon Gate Dielectric for Organic Thinâ€Film Transistors. Advanced Electronic Materials, 2016, 2, 1500374.	2.6	10
46	Low-Voltage pH Sensor Tag Based on All Solution Processed Organic Field-Effect Transistor. IEEE Electron Device Letters, 2016, 37, 1002-1005.	2.2	27
47	Highly Efficient Allâ€Solutionâ€Processed Lowâ€Voltage Organic Transistor with a Micrometerâ€Thick Lowâ€k Polymer Gate Dielectric Layer. Advanced Electronic Materials, 2016, 2, 1500454.	2.6	55
48	Improved bias stress stability for low-voltage polymer OTFTs with low-k/high-k bilayer gate dielectric. , 2016, , .		1
49	Low voltage organic thin-film transistor with reduced sub-gap DOS for power efficient logic circuits. , 2016, , .		2
50	Unencapsulated Air-stable Organic Field Effect Transistor by All Solution Processes for Low Power Vapor Sensing. Scientific Reports, 2016, 6, 20671.	1.6	109
51	Numerical Simulation and Analysis of the Switching Performance for Printable Low-Voltage Organic Thin-Film Transistors in Active-Matrix Backplanes. Journal of Display Technology, 2016, 12, 690-694.	1.3	5
52	Crossâ€linked Polymerâ€Blend Gate Dielectrics through Thermal Click Chemistry. Chemistry - A European Journal, 2015, 21, 17762-17768.	1.7	9
53	Mercury levels and estimated total daily intakes for children and adults from an electronic waste recycling area in Taizhou, China: Key role of rice and fish consumption. Journal of Environmental Sciences, 2015, 34, 107-115.	3.2	51
54	Corrections to â€œUltralow-Voltage Solution-Processed Organic Transistors With Small Gate Dielectric Capacitanceâ€. IEEE Electron Device Letters, 2015, 36, 1384-1384.	2.2	1

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55	Low-Voltage Large-Current Ion Gel Gated Polymer Transistors Fabricated by a â€œCut and Bondâ€•Process. ACS Applied Materials & Interfaces, 2015, 7, 4759-4762.	4.0	8
56	Fully Printable Organic Thin-Film Transistor Technology for Sensor Transducer. , 2015, , 47-59.		3
57	High-Performance Solution-Processed Low-Voltage Polymer Thin-Film Transistors With Low-<inline-formula> <tex-math notation="LaTeX">k </tex-math></inline-formula>/High-<inline-formula> <tex-math notation="LaTeX">k </tex-math></inline-formula> Bilayer Gate Dielectric. IEEE Electron Device Letters, 2015, 36, 950-952.	2.2	60
58	Top-Gate Dry-Etching Patterned Polymer Thin-Film Transistors With a Protective Layer on Top of the Channel. IEEE Electron Device Letters, 2015, 36, 59-61.	2.2	20
59	Assessing Adverse Effects of Aroclor 1254 on Perinatally Exposed Rat Offspring. Biomedical and Environmental Sciences, 2015, 28, 687-90.	0.2	3
60	Comparative study of encapsulated solution-processed zinc oxide ultraviolet photodetectors with different contacts. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2184-2188.	0.8	9
61	Solution Processed Organic Thin-Film Transistors With Hybrid Low/High Voltage Operation. Journal of Display Technology, 2014, 10, 971-974.	1.3	10
62	Dual-<inline-formula> <tex-math notation="TeX">$V_{m th}$ </tex-math></inline-formula> Low-Voltage Solution Processed Organic Thin-Film Transistors With a Thick Polymer Dielectric Layer. IEEE Transactions on Electron Devices, 2014, 61, 2220-2223.	1.6	10
63	All-Solution-Processed Low-Voltage Organic Thin-Film Transistor Inverter on Plastic Substrate. IEEE Transactions on Electron Devices, 2014, 61, 1175-1180.	1.6	39
64	Inkjet printed fine silver electrodes for all-solution-processed low-voltage organic thin film transistors. Journal of Materials Chemistry C, 2014, 2, 1995.	2.7	51
65	Controlling the surface wettability of the polymer dielectric for improved resolution of inkjet-printed electrodes and patterned channel regions in low-voltage solution-processed organic thin film transistors. Journal of Materials Chemistry C, 2014, 2, 5553.	2.7	30
66	Ultralow-Voltage Solution-Processed Organic Transistors With Small Gate Dielectric Capacitance. IEEE Electron Device Letters, 2013, 34, 129-131.	2.2	83
67	Printing of Fine Metal Electrodes for Organic Thinâ€Film Transistors. , 0, , .		0
68	Ferris-wheel-assisted parylene-C dielectric deposition for improving organic thin-film transistor uniformity. Flexible and Printed Electronics, 0, , .	1.5	0