

# Wei Tang

## List of Publications by Year in descending order

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68  
papers

1,718  
citations

304743

22  
h-index

289244

40  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2032  
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.   | 11.6 | 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.   | 2.1  | 11        |
| 3  | Multi-Oxanyon 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. | 8.0  | 17        |
| 4  | Solution processed low power organic field-effect transistor bio-chemical sensor of high transconductance efficiency. Npj Flexible Electronics, 2022, 6, .   | 10.7 | 18        |
| 5  | Batch-producible fibrous microelectrodes for enzyme-free electrochemical detection of glucose. Journal of Materials Science: Materials in Electronics, 2022, 33, 11511-11522.  | 2.2  | 2         |
| 6  | Printed 384-well Microtiter Plate on Paper for Fluorescent Chemosensor Arrays in Food Analysis. Chemistry - an Asian Journal, 2022, 17, .  | 3.3  | 7         |
| 7  | Thin-film transistor arrays for biological sensing systems. Flexible and Printed Electronics, 2022, 7, 023004.   | 2.7  | 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.                                     | 5.5  | 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.  | 3.9  | 12        |
| 12 | Invited Paper: Development of Organic TFT Technology for Active-Matrix Display Backplane. Digest of Technical Papers SID International Symposium, 2021, 52, 9-12.  | 0.3  | 5         |
| 13 | Toward Food Freshness Monitoring: Coordination Binding-Based Colorimetric Sensor Array for Sulfur-Containing Amino Acids. Frontiers in Chemistry, 2021, 9, 685783.   | 3.6  | 11        |
| 14 | Chemical sensing based on water-gated polythiophene thin-film transistors. Polymer Journal, 2021, 53, 1315-1323.   | 2.7  | 2         |
| 15 | Frictional polaron effect in flexible low-voltage organic thin-film transistors gated with high-k polymer dielectrics. Journal Physics D: Applied Physics, 2021, 54, 444001.   | 2.8  | 4         |
| 16 | Polythiophene-Based Chemical Sensors: Toward On-Site Supramolecular Analytical Devices. Bulletin of the Chemical Society of Japan, 2021, 94, 2613-2622.  | 3.2  | 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.   | 2.1  | 4         |
| 18 | Manipulating the Sensitivity and Selectivity of OCT-Based Biosensors via the Surface Engineering of Carbon Cloth Gate Electrodes. Advanced Functional Materials, 2020, 30, 1905361.  | 14.9 | 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. | 2.1  | 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.                  | 10.1 | 38        |
| 22 | Fast Measurement With Chemical Sensors Based on Sliding Window Sampling and Mixed-Feature Extraction. IEEE Sensors Journal, 2020, 20, 8740-8745.  | 4.7  | 4         |
| 23 | Ordered mesoporous carbon sphere-based solid-contact ion-selective electrodes. Journal of Materials Science, 2019, 54, 13674-13684.   | 3.7  | 15        |
| 24 | Reducing contact resistance in bottom contact organic field effect transistors for integrated electronics. Journal Physics D: Applied Physics, 2019, 53, 014002.                        | 2.8  | 17        |
| 25 | A Flexible Acetylcholinesterase-Modified Graphene for Chiral Pesticide Sensor. Journal of the American Chemical Society, 2019, 141, 14643-14649.  | 13.7 | 67        |
| 26 | Recent progress in printable organic field effect transistors. Journal of Materials Chemistry C, 2019, 7, 790-808.  | 5.5  | 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.                                   | 0.3  | 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.                     | 3.9  | 22        |
| 29 | Integrated Low Voltage Ion Sensing Organic Field Effect Transistor System on Plastic. IEEE Electron Device Letters, 2018, 39, 591-594.  | 3.9  | 21        |
| 30 | Improved Sensitivity of Inkjet-Printed PEDOT:PSS Ammonia Sensor With “Nonideal” 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.                     | 4.8  | 30        |
| 32 | Solution-processable organic and hybrid gate dielectrics for printed electronics. Materials Science and Engineering Reports, 2018, 127, 1-36.   | 31.8 | 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.   | 14.6 | 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.   | 3.9  | 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.   | 3.0  | 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.                       | 3.9  | 42        |
| 41 | Current Status and Opportunities of Organic Thin-Film Transistor Technologies. IEEE Transactions on Electron Devices, 2017, 64, 1906-1921.   | 3.0  | 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.   | 3.9  | 26        |
| 43 | Probing the intrinsic charge transport in indacenodithiophene-co-benzothiadiazole thin films. AIP Advances, 2017, 7, .   | 1.3  | 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.   | 3.9  | 41        |
| 45 | Room Temperature Grown High-Quality Polymer-Like Carbon Gate Dielectric for Organic Thin-Film Transistors. Advanced Electronic Materials, 2016, 2, 1500374.  | 5.1  | 10        |
| 46 | Low-Voltage pH Sensor Tag Based on All Solution Processed Organic Field-Effect Transistor. IEEE Electron Device Letters, 2016, 37, 1002-1005.  | 3.9  | 27        |
| 47 | Highly Efficient All-Solution-Processed Low-Voltage Organic Transistor with a Micrometer-Thick Low-k Polymer Gate Dielectric Layer. Advanced Electronic Materials, 2016, 2, 1500454.   | 5.1  | 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.   | 3.3  | 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.                            | 1.2  | 5         |
| 52 | Cross-Linked Polymer Blend Gate Dielectrics through Thermal Click Chemistry. Chemistry - A European Journal, 2015, 21, 17762-17768.  | 3.3  | 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. | 6.1  | 51        |
| 54 | Corrections to "Ultralow-Voltage Solution-Processed Organic Transistors With Small Gate Dielectric Capacitance". IEEE Electron Device Letters, 2015, 36, 1384-1384.  | 3.9  | 1         |

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|----|--|-----|-----------|
| 55 | Low-Voltage Large-Current Ion Gel Gated Polymer Transistors Fabricated by a "Cut and Bond" Process. ACS Applied Materials & Interfaces, 2015, 7, 4759-4762.  | 8.0 | 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- $\kappa$ and High- $\kappa$ Bilayer Gate Dielectric. IEEE Electron Device Letters, 2015, 36, 950-952.  | 3.9 | 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.   | 3.9 | 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.  | 1.8 | 9         |
| 61 | Solution Processed Organic Thin-Film Transistors With Hybrid Low/High Voltage Operation. Journal of Display Technology, 2014, 10, 971-974.   | 1.2 | 10        |
| 62 | Dual- $V_{th}$ Low-Voltage Solution Processed Organic Thin-Film Transistors With a Thick Polymer Dielectric Layer. IEEE Transactions on Electron Devices, 2014, 61, 2220-2223.   | 3.0 | 10        |
| 63 | All-Solution-Processed Low-Voltage Organic Thin-Film Transistor Inverter on Plastic Substrate. IEEE Transactions on Electron Devices, 2014, 61, 1175-1180.   | 3.0 | 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.   | 5.5 | 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. | 5.5 | 30        |
| 66 | Ultralow-Voltage Solution-Processed Organic Transistors With Small Gate Dielectric Capacitance. IEEE Electron Device Letters, 2013, 34, 129-131.   | 3.9 | 83        |
| 67 | Printing of Fine Metal Electrodes for Organic Thin-Film Transistors. , 0, , .  |     | 0         |
| 68 | Ferris-wheel-assisted parylene-C dielectric deposition for improving organic thin-film transistor uniformity. Flexible and Printed Electronics, 0, , .   | 2.7 | 0         |