

# Yao Yao

## List of Publications by Year in descending order

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65  
papers

2,467  
citations

257450

24  
h-index

197818

49  
g-index

65  
all docs

65  
docs citations

65  
times ranked

3182  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced sensitivity of ammonia sensor using graphene/polyaniline nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2013, 178, 485-493.	7.8	425
2	Graphene oxide thin film coated quartz crystal microbalance for humidity detection. <i>Applied Surface Science</i> , 2011, 257, 7778-7782.	6.1	204
3	Humidity sensing behaviors of graphene oxide-silicon bi-layer flexible structure. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 1053-1058.	7.8	167
4	The effect of ambient humidity on the electrical properties of graphene oxide films. <i>Nanoscale Research Letters</i> , 2012, 7, 363.	5.7	151
5	Room-temperature highly sensitive CO gas sensor based on Ag-loaded zinc oxide/molybdenum disulfide ternary nanocomposite and its sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 1120-1128.	7.8	140
6	Application of the Variational-Mode Decomposition for Seismic Time-frequency Analysis. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 3821-3831.	4.9	97
7	Room Temperature Methane Sensor Based on Graphene Nanosheets/Polyaniline Nanocomposite Thin Film. <i>IEEE Sensors Journal</i> , 2013, 13, 777-782.	4.7	92
8	Novel QCM humidity sensors using stacked black phosphorus nanosheets as sensing film. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 259-264.	7.8	82
9	Fabrication of platinum-loaded cobalt oxide/molybdenum disulfide nanocomposite toward methane gas sensing at low temperature. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 624-632.	7.8	82
10	Facile fabrication of high sensitivity cellulose nanocrystals based QCM humidity sensors with asymmetric electrode structure. <i>Sensors and Actuators B: Chemical</i> , 2020, 302, 127192.	7.8	76
11	Investigation of the stability of QCM humidity sensor using graphene oxide as sensing films. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 779-783.	7.8	66
12	Impedance analysis of quartz crystal microbalance humidity sensors based on nanodiamond/graphene oxide nanocomposite film. <i>Sensors and Actuators B: Chemical</i> , 2015, 211, 52-58.	7.8	61
13	Multi-Walled Carbon Nanotubes/Graphene Oxide Composites for Humidity Sensing. <i>IEEE Sensors Journal</i> , 2013, 13, 4749-4756.	4.7	56
14	Bandwidth Extension of Doherty Power Amplifier Using Complex Combining Load With Noninfinity Peaking Impedance. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019, 67, 765-777.	4.6	52
15	High-stability quartz crystal microbalance ammonia sensor utilizing graphene oxide isolation layer. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 183-188.	7.8	45
16	Quartz Crystal Microbalance Humidity Sensors Based on Nanodiamond Sensing Films. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 386-393.	2.0	45
17	Hierarchically MoS <sub>2</sub> nanospheres assembled from nanosheets for superior CO gas-sensing properties. <i>Materials Research Bulletin</i> , 2018, 101, 132-139.	5.2	41
18	Fabrication of miniaturized CSRR-loaded HMSIW humidity sensors with high sensitivity and ultra-low humidity hysteresis. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 1100-1106.	7.8	39

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19	Development of a highly sensitive humidity sensor based on the capacitive micromachined ultrasonic transducer. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 39-45.	7.8	31
20	SIW resonator humidity sensor based on layered black phosphorus. <i>Electronics Letters</i> , 2017, 53, 249-251.	1.0	30
21	A facile method to graphene oxide/polyaniline nanocomposite with sandwich-like structure for enhanced electrical properties of humidity detection. <i>Analytica Chimica Acta</i> , 2019, 1080, 178-188.	5.4	29
22	High Sensitivity and High Stability QCM Humidity Sensors Based on Polydopamine Coated Cellulose Nanocrystals/Graphene Oxide Nanocomposite. <i>Nanomaterials</i> , 2020, 10, 2210.	4.1	28
23	Humidity-Sensing Properties of a BiOCl-Coated Quartz Crystal Microbalance. <i>ACS Omega</i> , 2020, 5, 18818-18825.	3.5	25
24	Acetylene Gas-Sensing Properties of Layer-by-Layer Self-Assembled Ag-Decorated Tin Dioxide/Graphene Nanocomposite Film. <i>Nanomaterials</i> , 2017, 7, 278.	4.1	24
25	A Precise Harmonic Control Technique for High Efficiency Concurrent Dual-Band Continuous Class-F Power Amplifier. <i>IEEE Access</i> , 2018, 6, 51864-51874.	4.2	24
26	Detection of ethanol and methanol vapors using polymer-coated piezoresistive Si bridge. <i>Sensors and Actuators B: Chemical</i> , 2011, 155, 519-523.	7.8	23
27	Highly sensitive CMUT-based humidity sensors built with nitride-to-oxide wafer bonding technology. <i>Sensors and Actuators B: Chemical</i> , 2019, 294, 123-131.	7.8	23
28	Influence of the oxygen content on the humidity sensing properties of functionalized graphene films based on bulk acoustic wave humidity sensors. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 755-762.	7.8	22
29	Design of High Efficiency Broadband Continuous Class-F Power Amplifier Using Real Frequency Technique With Finite Transmission Zero. <i>IEEE Access</i> , 2018, 6, 61983-61993.	4.2	22
30	Simulation analysis and experimental verification for sensitivity of IDE-QCM humidity sensors. <i>Sensors and Actuators B: Chemical</i> , 2021, 341, 129992.	7.8	22
31	Self-Assembly of Polyelectrolytic/Graphene Oxide Multilayer Thin Films on Quartz Crystal Microbalance for Humidity Detection. <i>IEEE Sensors Journal</i> , 2014, 14, 4078-4084.	4.7	20
32	Design of Concurrent Dual-Band Continuous Class-J Mode Doherty Power Amplifier With Precise Impedance Terminations. <i>IEEE Microwave and Wireless Components Letters</i> , 2019, 29, 348-350.	3.2	19
33	Assessing the Mass Sensitivity for Different Electrode Materials Commonly Used in Quartz Crystal Microbalances (QCMs). <i>Sensors</i> , 2019, 19, 3968.	3.8	18
34	Development of a Novel CMUT-Based Concentric Dual-Element Ultrasonic Transducer: Design, Fabrication, and Characterization. <i>Journal of Microelectromechanical Systems</i> , 2018, 27, 538-546.	2.5	16
35	Novel Quartz Crystal Capacitive Sensor for Micro Displacement Detection. <i>IEEE Sensors Journal</i> , 2012, 12, 2145-2149.	4.7	15
36	Does mode mixing matter in EMD-based highlight volume methods for hydrocarbon detection? Experimental evidence. <i>Journal of Applied Geophysics</i> , 2016, 132, 193-210.	2.1	15

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37	Fabrication and Characterization of Highly Sensitive Acetone Chemical Sensor Based on ZnO Nanoballs. <i>Materials</i> , 2017, 10, 799.	2.9	15
38	Ringed Electrode Configuration Enhances the Sensitivity of QCM Humidity Sensor Based on Lignin Through Fringing Field Effect. <i>IEEE Sensors Journal</i> , 2021, 21, 22450-22458.	4.7	15
39	Effect of humidity on electrical properties of micro/nano-polyaniline thin films with different D-CSA doping degree. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 411-419.	5.0	13
40	Seismic attenuation estimation using a complete ensemble empirical mode decomposition-based method. <i>Marine and Petroleum Geology</i> , 2016, 71, 296-309.	3.3	11
41	High Sensitivity of Ammonia Sensor through 2D Black Phosphorus/Polyaniline Nanocomposite. <i>Nanomaterials</i> , 2021, 11, 3026.	4.1	11
42	Effect of p-Type Buried Layer Dose on Hot Carrier Degradation of RONin 700 V Triple RESURF nLDMOS. <i>IEEE Electron Device Letters</i> , 2016, 37, 242-244.	3.9	9
43	Wavelet-based cepstrum decomposition of seismic data and its application in hydrocarbon detection. <i>Geophysical Prospecting</i> , 2016, 64, 1441-1453.	1.9	9
44	Analysis of the Effect of Electrode Materials on the Sensitivity of Quartz Crystal Microbalance. <i>Nanomaterials</i> , 2022, 12, 975.	4.1	8
45	Enhanced sensitivity of quartz crystal proximity sensors using an asymmetrical electrodes configuration. <i>Sensors and Actuators A: Physical</i> , 2017, 258, 95-100.	4.1	7
46	Performance Enhancement of Interdigital Electrode-Piezoelectric Quartz Crystal (IDE-PQC) Salt Concentration Sensor by Increasing the Electrode Area of Piezoelectric Quartz Crystal (PQC). <i>Sensors</i> , 2018, 18, 3224.	3.8	7
47	Optimized Dynamic $R_{ON}$ With p-Type Buried Layer Bridge in 700-V Triple RESURF nLDMOS. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 3287-3292.	3.0	5
48	Cross-sensitivity reduction of QCM humidity sensor using graphene oxide membrane as filter layer. <i>Electronics Letters</i> , 2014, 50, 1447-1449.	1.0	4
49	A 0.18- $\mu\text{m}$ LDMOS With Excellent Ronsp and Uniformity by Optimized Manufacture Process. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2019, 32, 129-133.	1.7	4
50	Sensitivity Enhancement of Quartz Crystal Capacitive Sensor Using Series Inductive Reactance. <i>IEEE Sensors Journal</i> , 2014, 14, 2012-2018.	4.7	3
51	An Accurate Three-Input Nonlinear Model for Joint Compensation of Frequency-Dependent I/Q Imbalance and Power Amplifier Distortion. <i>IEEE Access</i> , 2019, 7, 140651-140664.	4.2	3
52	A High-Q Quartz Crystal Microbalance with Mass Sensitivity up to 1017 Hz/kg. <i>Chinese Physics Letters</i> , 2019, 36, 120702.	3.3	3
53	Fundamental resonance frequency dependence of the proximity effect of quartz crystal resonators. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 116701.	1.5	2
54	A miniaturized evanescent mode HMSIW humidity sensor. , 2017, , .		2

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55	A 500-V High ON-BV Parasitic JFET With an Optimized Drift Region. IEEE Transactions on Electron Devices, 2019, 66, 1396-1401.	3.0	2
56	A simplified adaptive sparse digital pre-distorter for joint mitigation of frequency-dependent transmitter impairments. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22056.	1.2	2
57	Low-firing behavior, microstructure, and electromagnetic properties of a ferroelectric-ferromagnetic composite material with multiple doping. Journal of Alloys and Compounds, 2018, 750, 479-489.	5.5	1
58	Power Amplifier Behavioral Model Dimension Pruning Using Sparse Principal Component Analysis. , 2018, , .		1
59	Synthesizing and Optimizing of Wide Stopband Low-Pass Filter with Improved Infinite Attenuation Unit Based on Stubs. Frequenz, 2018, 72, 523-531.	0.9	1
60	SIW-based microfluidically tunable PD with wide-frequency-tuning range. Electronics Letters, 2019, 55, 40-41.	1.0	1
61	Design of Duplex Terahertz Waveguide Rotary Joint Based on Septum Polarizer. , 2021, , .		1
62	A Room Temperature Polymer-Coated Piezoresistive Silicon Bridge Gasoline Vapor Sensor. IEEE Sensors Journal, 2012, 12, 926-929.	4.7	0
63	A novel design method for extending power back-off range of broadband Doherty power amplifier. Microwave and Optical Technology Letters, 2019, 61, 2420-2426.	1.4	0
64	An accurate continuous-time model for current-mode boost convertors which integrates the current-loop instability scheme. , 2014, , .		0
65	Design of a Phased Array Fed Reflector Antenna for Limited Scanning. , 2021, , .		0