Xiaofang Pan

List of Publications by Year
in descending order

49 papers	984 citations	471061 17 h-index	476904 29 g-index
49 all docs	49 docs citations	49 times ranked	1341 citing authors

#	Article	IF	Citations
1	A Dual-Entropy-Superposed PUF With In-Cell Entropy Sign-Based Stabilization. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 284-296.	3.5	3
2	A Fast-Response Breathing Monitoring System for Human Respiration Disease Detection. IEEE Sensors Journal, 2022, 22, 10411-10419.	2.4	8
3	Programmable Nanoarchitectonics of Pore Array for Electronic-Nose-Based Early Disease Diagnose. IEEE Transactions on Electron Devices, 2022, 69, 4514-4520.	1.6	1
4	An Astragalus membranaceus based eco-friendly biomimetic synthesis approach of ZnO nanoflowers with an excellent antibacterial, antioxidant and electrochemical sensing effect. Materials Science and Engineering C, 2021, 118, 111432.	3.8	40
5	Synthesis of small molecule dye additive for efficient and DIO-free ternary organic solar cells. Journal of Materials Science, 2021, 56, 2528-2538.	1.7	5
6	Wireless Self-Powered High-Performance Integrated Nanostructured-Gas-Sensor Network for Future Smart Homes. ACS Nano, 2021, 15, 7659-7667.	7.3	90
7	Low-Bandgap DPP-Based Quinoxaline with Extended EQE and Low Energy Loss for Efficient Polymer Solar Cells. Journal of Electronic Materials, 2021, 50, 4488-4496.	1.0	0
8	Ultra-Sensitive Bimetallic Alloy Loaded with Porous Architecture MOF for Ammonia Detection at Room Temperature. , 2021, , .		2
9	Stable Cobalt Porphyirn Ometed Type Small Molecule Sensor for the Sensitive and Selective Detection of Ammonia Gas at Room Temperature. Advanced Materials Technologies, 2021, 6, 2100147.	3.0	3
10	MoO2-Ni-graphene ternary nanocomposite for a high-performance room-temperature ethanol gas sensor. Applied Surface Science, 2021, 554, 149595.	3.1	29
11	A CRP-Space-Extended RRAM PUF With In-Cell Zero-Overhead Salicide-Blocked Contact. IEEE Transactions on Electron Devices, 2021, 68, 3702-3705.	1.6	1
12	A p-n Heterojunction Based Pd/PdO@ZnO Organic Frameworks for High-Sensitivity Room-Temperature Formaldehyde Gas Sensor. Frontiers in Chemistry, 2021, 9, 742488.	1.8	11
13	A fast and robust mixture gases identification and concentration detection algorithm based on attention mechanism equipped recurrent neural network with double loss function. Sensors and Actuators B: Chemical, 2021, 342, 129982.	4.0	29
14	A Wafer-Level Packaged CMOS MEMS Pirani Vacuum Gauge. IEEE Transactions on Electron Devices, 2021, 68, 5155-5161.	1.6	7
15	Interfacial engineering and down-conversion of ultraviolet light for efficient perovskite solar cells. Solar Energy, 2020, 197, 363-370.	2.9	15
16	TiO$_2$ based sensor with butterfly wing configurations for fast acetone detection at room temperature. Journal of Materials Chemistry C, 2019, 7, 11118-11125.	2.7	38
17	A Fast and Robust Gas Recognition Algorithm Based on Hybrid Convolutional and Recurrent Neural Network. IEEE Access, 2019, 7, 100954-100963.	2.6	26
18	A 124 fJ/Bit Cascode Current Mirror Array Based PUF With 1.50% Native Unstable Bit Ratio. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 3494-3503.	3.5	19

#	Article	IF	Citations
19	Tube Length Effect of Anodized Aluminum Oxide Template Based Gas Sensor. , 2019, , .		0
20	A Low Power Current Mode PUF Based on Winner-Take-All Scheme. , 2019, , .		2
21	Mixture Gases Classification Based on Multi-Label One-Dimensional Deep Convolutional Neural Network. IEEE Access, 2019, 7, 12630-12637.	2.6	48
22	A Novel 1D Deep Convolutional Neural Network Based Algorithm for Mixture Gases Recognition. , 2018, , .		6
23	Image Denoising Algorithms for DoFP Polarization Image Sensors with Non-Gaussian Noises. , 2018, , .		1
24	A Compact 31.47 fJ/Conversion Subthreshold Level Shifter With Wide Conversion Range in 65 nm MTCMOS. IEEE Access, 2018, 6, 54976-54981.	2.6	9
25	A Novel Convolutional Recurrent Neural Network Based Algorithm for Fast Gas Recognition in Electronic Nose System. , 2018, , .		10
26	K-SVD Based Denoising Algorithm for DoFP Polarization Image Sensors. , 2018, , .		3
27	Ultra-Low-Power Smart Electronic Nose System Based on Three-Dimensional Tin Oxide Nanotube Arrays. ACS Nano, 2018, 12, 6079-6088.	7.3	88
28	Gas Classification Using Deep Convolutional Neural Networks. Sensors, 2018, 18, 157.	2.1	129
29	A Compact and Low Power RO PUF with High Resilience to the EM Side-Channel Attack and the SVM Modelling Attack of Wireless Sensor Networks. Sensors, 2018, 18, 322.	2.1	17
30	A Miniaturized Base Station Antenna With Novel Phase Shifter for 3G/LTE Applications. IEEE Access, 2018, 6, 52877-52888.	2.6	11
31	Breath Level Acetone Discrimination Through Temperature Modulation of a Hierarchical ZnO Gas Sensor. , 2017, 1, 1-4.		12
32	A Support Vector Machine-Based Genetic AlgorithmMethod for Gas Classification. , 2017, , .		1
33	Classification of Data from Electronic Nose Using Gradient Tree Boosting Algorithm. Sensors, 2017, 17, 2376.	2.1	26
34	A low-power relaxation oscillator with improved thermal stability. , 2017, , .		3
35	A low power and compact physical unclonable function based on the cascode current mirrors. , 2016, , .		4
36	Tube size effect of anodized alumnium oxide template based gas sensor. , 2016, , .		0

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37	A compact ultra-low power physical unclonable function based on time-domain current difference measurement. , 2016, , .		9
38	A hierarchical ZnO nanostructure gas sensor for human breath-level acetone detection. , 2016, , .		4
39	A Humidity-Insensitive NO_2 Gas Sensor With High Selectivity. IEEE Electron Device Letters, 2016, 37, 92-95.	2.2	20
40	An Interpolation-Based Stokes Image Reconstruction Scheme for DoFP Polarization Image Sensors. , 2016, , .		0
41	A Novel Spatial-Domain Denoising Scheme for DoFP Polarimetric Image Sensors. , 2016, , .		0
42	An ultra-low power common-source-amplifier-based physical unclonable function. , 2015, , .		9
43	Ultra-High Sensitivity Zinc Oxide Nanocombs for On-Chip Room Temperature Carbon Monoxide Sensing. Sensors, 2015, 15, 8919-8930.	2.1	24
44	A fast-response/recovery ZnO hierarchical nanostructure based gas sensor with ultra-high room-temperature output response. Sensors and Actuators B: Chemical, 2015, 206, 764-771.	4.0	82
45	Artificial Olfactory Systems. , 2015, , 1-20.		0
46	An Analog Gamma Correction Scheme for High Dynamic Range CMOS Logarithmic Image Sensors. Sensors, 2014, 14, 24132-24145.	2.1	7
47	Patterned dual-layer achromatic micro-quarter-wave-retarder array for active polarization imaging. Optics Express, 2014, 22, 8024.	1.7	28
48	Self-Gating Effect Induced Large Performance Improvement of ZnO Nanocomb Gas Sensors. ACS Nano, 2013, 7, 9318-9324.	7.3	104
49	Fabrication of a low power CMOS-compatible ZnO nanocomb-based gas sensor. , 2012, , .		0