

# Pengfei Jia

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

918  
citations

687363

13  
h-index

501196

28  
g-index

31  
all docs

31  
docs citations

31  
times ranked

778  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of SO <sub>2</sub> and NO <sub>2</sub> molecule on intrinsic and Pd-doped HfSe <sub>2</sub> monolayer: A first-principles study. Applied Surface Science, 2020, 513, 145863.	6.1	250
2	Electronic Nose Feature Extraction Methods: A Review. Sensors, 2015, 15, 27804-27831.	3.8	207
3	Adsorption and sensing of CO and C <sub>2</sub> H <sub>2</sub> by S-defected SnS <sub>2</sub> monolayer for DGA in transformer oil: A DFT study. Materials Chemistry and Physics, 2020, 249, 123006.	4.0	87
4	Feature extraction of wound infection data for electronic nose based on a novel weighted KPCA. Sensors and Actuators B: Chemical, 2014, 201, 555-566.	7.8	63
5	Geometric, Electronic and Optical Properties of Pt-Doped C <sub>3</sub> N Monolayer Upon NO <sub>x</sub> Adsorption: A DFT Study. IEEE Sensors Journal, 2021, 21, 3602-3608.	4.7	43
6	Enhancing electronic nose performance based on a novel QPSO-RBM technique. Sensors and Actuators B: Chemical, 2018, 259, 241-249.	7.8	26
7	A novel electronic nose learning technique based on active learning: EQBC-RBFNN. Sensors and Actuators B: Chemical, 2017, 249, 533-541.	7.8	23
8	A novel sensor array and classifier optimization method of electronic nose based on enhanced quantum-behaved particle swarm optimization. Sensor Review, 2014, 34, 304-311.	1.8	22
9	Enhancing Electronic Nose Performance Based on a Novel QPSO-KELM Model. Sensors, 2016, 16, 520.	3.8	22
10	A Novel Feature Extraction Approach Using Window Function Capturing and QPSO-SVM for Enhancing Electronic Nose Performance. Sensors, 2015, 15, 15198-15217.	3.8	21
11	Self-Taught Learning Based on Sparse Autoencoder for E-Nose in Wound Infection Detection. Sensors, 2017, 17, 2279.	3.8	17
12	An Enhanced Quantum-Behaved Particle Swarm Optimization Based on a Novel Computing Way of Local Attractor. Information (Switzerland), 2015, 6, 633-649.	2.9	16
13	Localized Surface Plasmon Resonance Gas Sensor Based on Molecularly Imprinted Polymer Coated Au Nano-Island Films: Influence of Nanostructure on Sensing Characteristics. IEEE Sensors Journal, 2016, 16, 3532-3540.	4.7	14
14	Feature Extraction of Citrus Juice During Storage for Electronic Nose Based on Cellular Neural Network. IEEE Sensors Journal, 2020, 20, 3803-3812.	4.7	14
15	A Novel Pre-Processing Technique for Original Feature Matrix of Electronic Nose Based on Supervised Locality Preserving Projections. Sensors, 2016, 16, 1019.	3.8	10
16	Training technique of electronic nose using labeled and unlabeled samples based on multi-kernel LapSVM. Sensors and Actuators B: Chemical, 2019, 294, 98-105.	7.8	10
17	A Novel Optimization Technique to Improve Gas Recognition by Electronic Noses Based on the Enhanced Krill Herd Algorithm. Sensors, 2016, 16, 1275.	3.8	8
18	A PSO-SVM Method for Parameters and Sensor Array Optimization in Wound Infection Detection based on Electronic Nose. Journal of Computers, 2012, 7, .	0.4	8

#	ARTICLE	IF	CITATIONS
19	Highly Sensitive Humidity Sensor Based on Oblique Carbon Nanoplumes. <i>Sensors</i> , 2018, 18, 3407.	3.8	7
20	A Novel Design and Implementation of Autonomous Robotic Car Based on ROS in Indoor Scenario. <i>Robotics</i> , 2020, 9, 19.	3.5	7
21	A DFT study of healing the N vacancy in h-BN monolayer by NO molecules. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	7
22	Feature Extraction and Classification of Citrus Juice by Using an Enhanced L-KSVD on Data Obtained from Electronic Nose. <i>Sensors</i> , 2019, 19, 916.	3.8	6
23	A Novel Regression Prediction Method for Electronic Nose Based on Broad Learning System. <i>IEEE Sensors Journal</i> , 2021, 21, 19374-19381.	4.7	6
24	A Novel Semi-Supervised Electronic Nose Learning Technique: M-Training. <i>Sensors</i> , 2016, 16, 370.	3.8	5
25	A Novel Technique Solving Shortages of Low-Concentration Samples of Electronic Nose Based on Global and Local Features Fusion. <i>IEEE Sensors Journal</i> , 2020, 20, 11412-11420.	4.7	5
26	Performance Improvement of MoS <sub>2</sub> Gas Sensor at Room Temperature. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 4644-4650.	3.0	5
27	Joint dehazing and denoising for single nighttime image via multi-scale decomposition. <i>Multimedia Tools and Applications</i> , 2022, 81, 23941-23962.	3.9	5
28	A Novel Semi-Supervised Method of Electronic Nose for Indoor Pollution Detection Trained by M-S4VMs. <i>Sensors</i> , 2016, 16, 1462.	3.8	4
29	Feature extraction of electronic nose for classification of indoor pollution gases based on kernel entropy component analysis. <i>International Journal of Intelligent Systems Technologies and Applications</i> , 2017, 16, 140.	0.2	0
30	A Novel Feature Fusion and Reprocessing Technique of Brain-Computer Interface for Motion Imagination. , 2019, , .		0
31	A Classification for Electronic Nose Based on Broad Learning System. <i>Frontiers in Artificial Intelligence and Applications</i> , 2020, , .	0.3	0