

Xiangdong Chen

List of Publications by Year in descending order

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53
papers

1,799
citations

361413
20
h-index

265206
42
g-index

53
all docs

53
docs citations

53
times ranked

2609
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 Methane Sensor Based on Graphene Nanosheets/Polyaniline Nanocomposite Thin Film. <i>IEEE Sensors Journal</i> , 2013, 13, 777-782.	4.7	92
6	High-sensitivity and low-hysteresis humidity sensor based on hydrothermally reduced graphene oxide/nanodiamond. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 761-768.	7.8	60
7	Multi-Walled Carbon Nanotubes/Graphene Oxide Composites for Humidity Sensing. <i>IEEE Sensors Journal</i> , 2013, 13, 4749-4756.	4.7	56
8	Ultra-High Sensitivity Humidity Sensor Based on MoS ₂ /Ag Composite Films. <i>IEEE Electron Device Letters</i> , 2017, 38, 806-809.	3.9	53
9	Ultrahigh humidity sensitivity of graphene oxide combined with Ag nanoparticles. <i>RSC Advances</i> , 2017, 7, 45988-45996.	3.6	49
10	Quartz Crystal Microbalance Humidity Sensors Based on Nanodiamond Sensing Films. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 386-393.	2.0	45
11	Discriminant Analysis of Hyperspectral Imagery Using Fast Kernel Sparse and Low-Rank Graph. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 6085-6098.	6.3	29
12	Facile fabrication of flower-like MoS ₂ /nanodiamond nanocomposite toward high-performance humidity detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 317, 128168.	7.8	28
13	Fast-Response MoS ₂ -Based Humidity Sensor Braced by SiO ₂ Microsphere Layers. <i>IEEE Electron Device Letters</i> , 2018, 39, 115-118.	3.9	25
14	Subsecond Response of Humidity Sensor Based on Graphene Oxide Quantum Dots. <i>IEEE Electron Device Letters</i> , 2015, 36, 615-617.	3.9	24
15	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
16	Ultrahighly Sensitive QCM Humidity Sensor Based on Nafion/MoS ₂ Hybrid Thin Film. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 1321-1326.	3.0	23
17	A High-Sensitive Humidity Sensor Based on Water-Soluble Composite Material of Fullerene and Graphene Oxide. <i>IEEE Sensors Journal</i> , 2018, 18, 962-966.	4.7	22
18	Digital ammonia gas sensor based on quartz resonator tuned by interdigital electrode coated with polyaniline film. <i>Organic Electronics</i> , 2020, 76, 105413.	2.6	22

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19	Fast response humidity sensor based on graphene oxide films supported by TiO ₂ nanorods. <i>Diamond and Related Materials</i> , 2020, 109, 108031.	3.9	22
20	PDMS-Coated Piezoresistive NEMS Diaphragm for Chloroform Vapor Detection. <i>IEEE Electron Device Letters</i> , 2012, 33, 1078-1080.	3.9	21
21	A High-Stability QCM Humidity Sensor Coated With Nanodiamond/Multiwalled Carbon Nanotubes Nanocomposite. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 506-512.	2.0	21
22	MoS ₂ /Graphene Oxide/C ₆₀ -OH Nanostructures Deposited on a Quartz Crystal Microbalance Transducer for Humidity Sensing. <i>ACS Applied Nano Materials</i> , 2021, 4, 10810-10818.	5.0	21
23	A High-Stability Quartz Crystal Resonator Humidity Sensor Based on Tuning Capacitor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018, 67, 715-721.	4.7	20
24	Enhanced ammonia sensitive properties and mechanism research of PANI modified with hydroxylated single-walled nanotubes. <i>Materials Chemistry and Physics</i> , 2019, 226, 378-386.	4.0	19
25	High Sensitivity Humidity Sensor and Its Application in Nondestructive Testing for Wet Paper. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127048.	7.8	16
26	Novel Quartz Crystal Capacitive Sensor for Micro Displacement Detection. <i>IEEE Sensors Journal</i> , 2012, 12, 2145-2149.	4.7	15
27	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
28	A QCM humidity sensors based on GO/Nafion composite films with enhanced sensitivity. <i>IEEE Sensors Journal</i> , 2016, , 1-1.	4.7	13
29	A Novel PQCR-L Circuit for Inductive Sensing and Its Application in Displacement Detection. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 685-693.	4.7	13
30	A Quartz Crystal Microbalance (QCM) Humidity Sensor Based on a Pencil-Drawn Method With High Quality Factor. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 5149-5154.	3.0	13
31	Energy-based adaptive matching pursuit algorithm for binary sparse signal reconstruction in compressed sensing. <i>Signal, Image and Video Processing</i> , 2014, 8, 1039-1048.	2.7	11
32	Humidity-Sensitive Properties of TiO ₂ Nanorods Grown Between Electrodes on Au Interdigital Electrode Substrate. <i>IEEE Sensors Journal</i> , 2017, 17, 6148-6152.	4.7	11
33	Flexible Wearable Humidity Sensor Based on Nanodiamond With Fast Response. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 1911-1916.	3.0	10
34	An inductive salt solution concentration sensor using a planar coil based on a PQCR-L circuit. <i>Sensors and Actuators A: Physical</i> , 2017, 263, 246-251.	4.1	7
35	A desired state can not be found with certainty for Grover's algorithm in a possible three-dimensional complex subspace. <i>Quantum Information Processing</i> , 2011, 10, 419-429.	2.2	6
36	Track Section Occupancy Detection Model Based on Infrared Ray Sensor and Time-Series Change Rate Matching. <i>IEEE Sensors Journal</i> , 2016, 16, 1079-1087.	4.7	5

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37	GPU-based fast hyperspectral image classification using joint sparse representation with spectral consistency constraint. <i>Journal of Real-Time Image Processing</i> , 2018, 15, 463-475.	3.5	5
38	Humidity Sensitivity Enhancement Effects of Metal Nanoparticles Loaded Fullerene. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129086.	7.8	5
39	Micromechanical Magnetic Sensor Based on Cylindrical Ferromagnets. <i>IEEE Sensors Journal</i> , 2011, 11, 2973-2979.	4.7	4
40	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
41	Gas Sensitive Characteristics of Polyaniline Decorated with Molybdenum Ditelluride Nanosheets. <i>Chemosensors</i> , 2022, 10, 264.	3.6	4
42	Sensitivity Enhancement of Quartz Crystal Capacitive Sensor Using Series Inductive Reactance. <i>IEEE Sensors Journal</i> , 2014, 14, 2012-2018.	4.7	3
43	Ultrafast response humidity sensor based on GOQDs/polyelectrolyte composite films. <i>Electronics Letters</i> , 2016, 52, 1609-1611.	1.0	3
44	Interdigitated transducer ammonia sensors based on nanodiamond/polyaniline thin film. <i>Electronics Letters</i> , 2016, 52, 542-544.	1.0	3
45	Current spike and efficiency optimization by using dynamic model of open-loop voltage mode single-phase BLDC cooling fan motor. , 2017, , .		3
46	Humidity Sensing Properties and Negative Differential Resistance Effects of TiO ₂ Nanowires. <i>IEEE Sensors Journal</i> , 2021, 21, 18477-18482.	4.7	3
47	Medical Image Compressed Sensing Based on Contourlet. , 2009, , .		2
48	Locality constrained low-rank representation for hyperspectral image classification. , 2016, , .		2
49	Gas-Sensitive Enhancement of rGO/HMWCNTs/PANI Ternary Composites. <i>IEEE Sensors Journal</i> , 2022, 22, 1905-1915.	4.7	2
50	NSCT-NLmeans based CS reconstruction for noisy image. , 2014, , .		1
51	A Room Temperature Polymer-Coated Piezoresistive Silicon Bridge Gasoline Vapor Sensor. <i>IEEE Sensors Journal</i> , 2012, 12, 926-929.	4.7	0
52	Research of Novel Benzene Vapor Sensor and Theoretical Model. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2011, 131, 75-80.	0.1	0
53	A Modified Quartz Crystal Capacitance Circuit by Using Parallel Inductance and Its Application for Microdisplacement Sensing. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-10.	4.7	0