

Xiangdong Chen

List of Publications by Year in descending order

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docs citations

53
times ranked

2609
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas-Sensitive Enhancement of rGO/HMWCNTs/PANI Ternary Composites. IEEE Sensors Journal, 2022, 22, 1905-1915.	4.7	2
2	Ultrahighly Sensitive QCM Humidity Sensor Based on Nafion/MoS ₂ Hybrid Thin Film. IEEE Transactions on Electron Devices, 2022, 69, 1321-1326.	3.0	23
3	A Modified Quartz Crystal Capacitance Circuit by Using Parallel Inductance and Its Application for Microdisplacement Sensing. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	0
4	Gas Sensitive Characteristics of Polyaniline Decorated with Molybdenum Ditelluride Nanosheets. Chemosensors, 2022, 10, 264.	3.6	4
5	Humidity Sensitivity Enhancement Effects of Metal Nanoparticles Loaded Fullerene. Sensors and Actuators B: Chemical, 2021, 329, 129086.	7.8	5
6	Humidity Sensing Properties and Negative Differential Resistance Effects of TiO ₂ Nanowires. IEEE Sensors Journal, 2021, 21, 18477-18482.	4.7	3
7	A Quartz Crystal Microbalance (QCM) Humidity Sensor Based on a Pencil-Drawn Method With High Quality Factor. IEEE Transactions on Electron Devices, 2021, 68, 5149-5154.	3.0	13
8	MoS ₂ /Graphene Oxide/C ₆₀ -OH Nanostructures Deposited on a Quartz Crystal Microbalance Transducer for Humidity Sensing. ACS Applied Nano Materials, 2021, 4, 10810-10818.	5.0	21
9	Digital ammonia gas sensor based on quartz resonator tuned by interdigital electrode coated with polyaniline film. Organic Electronics, 2020, 76, 105413.	2.6	22
10	Fast response humidity sensor based on graphene oxide films supported by TiO ₂ nanorods. Diamond and Related Materials, 2020, 109, 108031.	3.9	22
11	Facile fabrication of flower-like MoS ₂ /nanodiamond nanocomposite toward high-performance humidity detection. Sensors and Actuators B: Chemical, 2020, 317, 128168.	7.8	28
12	High Sensitivity Humidity Sensor and Its Application in Nondestructive Testing for Wet Paper. Sensors and Actuators B: Chemical, 2019, 301, 127048.	7.8	16
13	Enhanced ammonia sensitive properties and mechanism research of PANI modified with hydroxylated single-walled nanotubes. Materials Chemistry and Physics, 2019, 226, 378-386.	4.0	19
14	Flexible Wearable Humidity Sensor Based on Nanodiamond With Fast Response. IEEE Transactions on Electron Devices, 2019, 66, 1911-1916.	3.0	10
15	High-sensitivity and low-hysteresis humidity sensor based on hydrothermally reduced graphene oxide/nanodiamond. Sensors and Actuators B: Chemical, 2019, 283, 761-768.	7.8	60
16	A High-Stability QCM Humidity Sensor Coated With Nanodiamond/Multiwalled Carbon Nanotubes Nanocomposite. IEEE Nanotechnology Magazine, 2018, 17, 506-512.	2.0	21
17	A High-Sensitive Humidity Sensor Based on Water-Soluble Composite Material of Fullerene and Graphene Oxide. IEEE Sensors Journal, 2018, 18, 962-966.	4.7	22
18	A High-Stability Quartz Crystal Resonator Humidity Sensor Based on Tuning Capacitor. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 715-721.	4.7	20

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19	Fast-Response MoS ₂ -Based Humidity Sensor Braced by SiO ₂ Microsphere Layers. IEEE Electron Device Letters, 2018, 39, 115-118.	3.9	25
20	GPU-based fast hyperspectral image classification using joint sparse representation with spectral consistency constraint. Journal of Real-Time Image Processing, 2018, 15, 463-475.	3.5	5
21	Ultra-High Sensitivity Humidity Sensor Based on MoS ₂ /Ag Composite Films. IEEE Electron Device Letters, 2017, 38, 806-809.	3.9	53
22	Ultrahigh humidity sensitivity of graphene oxide combined with Ag nanoparticles. RSC Advances, 2017, 7, 45988-45996.	3.6	49
23	An inductive salt solution concentration sensor using a planar coil based on a PQCR-L circuit. Sensors and Actuators A: Physical, 2017, 263, 246-251.	4.1	7
24	Humidity-Sensitive Properties of TiO ₂ Nanorods Grown Between Electrodes on Au Interdigital Electrode Substrate. IEEE Sensors Journal, 2017, 17, 6148-6152.	4.7	11
25	Discriminant Analysis of Hyperspectral Imagery Using Fast Kernel Sparse and Low-Rank Graph. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6085-6098.	6.3	29
26	Current spike and efficiency optimization by using dynamic model of open-loop voltage mode single-phase BLDC cooling fan motor. , 2017, , .		3
27	Ultrafast response humidity sensor based on GOQDs/polyelectrolyte composite films. Electronics Letters, 2016, 52, 1609-1611.	1.0	3
28	A QCM humidity sensors based on GO/Nafion composite films with enhanced sensitivity. IEEE Sensors Journal, 2016, , 1-1.	4.7	13
29	A Novel PQCR-L Circuit for Inductive Sensing and Its Application in Displacement Detection. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 685-693.	4.7	13
30	Interdigitated transducer ammonia sensors based on nanodiamond/polyaniline thin film. Electronics Letters, 2016, 52, 542-544.	1.0	3
31	Track Section Occupancy Detection Model Based on Infrared Ray Sensor and Time-Series Change Rate Matching. IEEE Sensors Journal, 2016, 16, 1079-1087.	4.7	5
32	Locality constrained low-rank representation for hyperspectral image classification. , 2016, , .		2
33	Subsecond Response of Humidity Sensor Based on Graphene Oxide Quantum Dots. IEEE Electron Device Letters, 2015, 36, 615-617.	3.9	24
34	Cross-sensitivity reduction of QCM humidity sensor using graphene oxide membrane as filter layer. Electronics Letters, 2014, 50, 1447-1449.	1.0	4
35	NSCT-NLmeans based CS reconstruction for noisy image. , 2014, , .		1
36	Energy-based adaptive matching pursuit algorithm for binary sparse signal reconstruction in compressed sensing. Signal, Image and Video Processing, 2014, 8, 1039-1048.	2.7	11

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37	Sensitivity Enhancement of Quartz Crystal Capacitive Sensor Using Series Inductive Reactance. IEEE Sensors Journal, 2014, 14, 2012-2018.	4.7	3
38	Quartz Crystal Microbalance Humidity Sensors Based on Nanodiamond Sensing Films. IEEE Nanotechnology Magazine, 2014, 13, 386-393.	2.0	45
39	Room Temperature Methane Sensor Based on Graphene Nanosheets/Polyaniline Nanocomposite Thin Film. IEEE Sensors Journal, 2013, 13, 777-782.	4.7	92
40	Enhanced sensitivity of ammonia sensor using graphene/polyaniline nanocomposite. Sensors and Actuators B: Chemical, 2013, 178, 485-493.	7.8	425
41	Effect of humidity on electrical properties of micro/nano-polyaniline thin films with different D-CSA doping degree. Measurement: Journal of the International Measurement Confederation, 2013, 46, 411-419.	5.0	13
42	Multi-Walled Carbon Nanotubes/Graphene Oxide Composites for Humidity Sensing. IEEE Sensors Journal, 2013, 13, 4749-4756.	4.7	56
43	A Room Temperature Polymer-Coated Piezoresistive Silicon Bridge Gasoline Vapor Sensor. IEEE Sensors Journal, 2012, 12, 926-929.	4.7	0
44	The effect of ambient humidity on the electrical properties of graphene oxide films. Nanoscale Research Letters, 2012, 7, 363.	5.7	151
45	PDMS-Coated Piezoresistive NEMS Diaphragm for Chloroform Vapor Detection. IEEE Electron Device Letters, 2012, 33, 1078-1080.	3.9	21
46	Novel Quartz Crystal Capacitive Sensor for Micro Displacement Detection. IEEE Sensors Journal, 2012, 12, 2145-2149.	4.7	15
47	Humidity sensing behaviors of graphene oxide-silicon bi-layer flexible structure. Sensors and Actuators B: Chemical, 2012, 161, 1053-1058.	7.8	167
48	A desired state can not be found with certainty for Grover's algorithm in a possible three-dimensional complex subspace. Quantum Information Processing, 2011, 10, 419-429.	2.2	6
49	Detection of ethanol and methanol vapors using polymer-coated piezoresistive Si bridge. Sensors and Actuators B: Chemical, 2011, 155, 519-523.	7.8	23
50	Graphene oxide thin film coated quartz crystal microbalance for humidity detection. Applied Surface Science, 2011, 257, 7778-7782.	6.1	204
51	Micromechanical Magnetic Sensor Based on Cylindrical Ferromagnets. IEEE Sensors Journal, 2011, 11, 2973-2979.	4.7	4
52	Research of Novel Benzene Vapor Sensor and Theoretical Model. IEEJ Transactions on Sensors and Micromachines, 2011, 131, 75-80.	0.1	0
53	Medical Image Compressed Sensing Based on Contourlet. , 2009, , .		2