Changhui Zhao

List of Publications by Year
in descending order

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46 papers	3,427 citations	201674 27 h-index	315739 38 g-index
46 all docs	46 docs citations	46 times ranked	5543 citing authors

#	Article	IF	Citations
1	Freestanding Three-Dimensional Graphene/MnO₂ Composite Networks As Ultralight and Flexible Supercapacitor Electrodes. ACS Nano, 2013, 7, 174-182.	14.6	1,336
2	Enhanced Gas Sensing Performance of Electrospun Pt-Functionalized NiO Nanotubes with Chemical and Electronic Sensitization. ACS Applied Materials & Interfaces, 2013, 5, 7410-7416.	8.0	169
3	Cobalt sulfide nanosheets coated on NiCo₂S₄ nanotube arrays as electrode materials for high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 10492-10497.	10.3	161
4	Morphology-dependent electrochemical properties of cobalt-based metal organic frameworks for supercapacitor electrode materials. Electrochimica Acta, 2018, 267, 170-180.	5.2	161
5	Enhanced electrochemical properties of cerium metalâ€“organic framework based composite electrodes for high-performance supercapacitor application. RSC Advances, 2018, 8, 3462-3469.	3.6	128
6	Enhanced gas-sensing performance of ZnO@In2O3 core@shell nanofibers prepared by coaxial electrospinning. Sensors and Actuators B: Chemical, 2018, 255, 2248-2257.	7.8	121
7	Facile synthesis of SnO2 hierarchical porous nanosheets from graphene oxide sacrificial scaffolds for high-performance gas sensors. Sensors and Actuators B: Chemical, 2018, 258, 492-500.	7.8	89
8	Facile hydrothermal synthesis of flowerlike ZnCo 2 O 4 microspheres as binder-free electrodes for supercapacitors. Materials Letters, 2015, 149, 1-4.	2.6	79
9	Facilitated transport channels in carbon nanotube/carbon nanofiber hierarchical composites decorated with manganese dioxide for flexible supercapacitors. Journal of Power Sources, 2015, 274, 709-717.	7.8	79
10	Improving gas-sensing properties of electrospun In2O3 nanotubes by Mg acceptor doping. Sensors and Actuators B: Chemical, 2015, 207, 313-320.	7.8	76
11	A high performance all-solid-state flexible supercapacitor based on carbon nanotube fiber/carbon nanotubes/polyaniline with a double core-sheathed structure. Electrochimica Acta, 2018, 283, 366-373.	5.2	73
12	Electrospun In2O3/Î±-Fe2O3 heterostructure nanotubes for highly sensitive gas sensor applications. CrystEngComm, 2013, 15, 6491.	2.6	68
13	Influence of synthesis temperature on cobalt metal-organic framework (Co-MOF) formation and its electrochemical performance towards supercapacitor electrodes. Journal of Solid State Electrochemistry, 2018, 22, 3873-3881.	2.5	68
14	Enhanced ethanol sensing performance of porous ultrathin NiO nanosheets with neck-connected networks. RSC Advances, 2013, 3, 4018.	3.6	67
15	Effects of SnO2 additives on nanostructure and gas-sensing properties of Î±-Fe2O3 nanotubes. Sensors and Actuators B: Chemical, 2014, 195, 486-493.	7.8	65
16	Facilitated charge transport in ternary interconnected electrodes for flexible supercapacitors with excellent power characteristics. Nanoscale, 2013, 5, 11733.	5.6	62
17	Highly sensitive acetone-sensing properties of Pt-decorated CuFe2O4 nanotubes prepared by electrospinning. Ceramics International, 2018, 44, 2856-2863.	4.8	59
18	Doping effect of In2O3 on structural and ethanol-sensing characteristics of ZnO nanotubes fabricated by electrospinning. Applied Surface Science, 2015, 349, 615-621.	6.1	57

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19	Ultrasensitive SO2 sensor for sub-ppm detection using Cu-doped SnO2 nanosheet arrays directly grown on chip. Sensors and Actuators B: Chemical, 2020, 324, 128745.	7.8	56
20	Electrospun Ca-doped In2O3 nanotubes for ethanol detection with enhanced sensitivity and selectivity. Sensors and Actuators B: Chemical, 2019, 299, 126946.	7.8	55
21	Wire-in-tube structure fabricated by single capillary electrospinning via nanoscale Kirkendall effect: the case of nickelâ€“zinc ferrite. Nanoscale, 2013, 5, 12551.	5.6	46
22	Fabrication of porous nanosheet-based Co 3 O 4 hollow nanocubes for electrochemical capacitors with high rate capability. Electrochimica Acta, 2015, 178, 555-563.	5.2	45
23	On-Chip Growth of SnO₂/ZnO Coreâ€“Shell Nanosheet Arrays for Ethanol Detection. IEEE Electron Device Letters, 2018, 39, 1065-1068.	3.9	37
24	Preparation of carbonâ€“TiO2 nanocomposites by a hydrothermal method and their enhanced photocatalytic activity. RSC Advances, 2013, 3, 24644.	3.6	35
25	Grain refining effect of calcium dopants on gas-sensing properties of electrospun Î±-Fe 2 O 3 nanotubes. Sensors and Actuators B: Chemical, 2016, 231, 552-560.	7.8	33
26	Synthesis of porous Co₃O₄ nanonetworks to detect toluene at low concentration. Physical Chemistry Chemical Physics, 2014, 16, 19327-19332.	2.8	30
27	Enhanced photocatalytic activity of TiO2/carbon@TiO2 coreâ€“shell nanocomposite prepared by two-step hydrothermal method. Applied Surface Science, 2014, 311, 384-390.	6.1	27
28	Growth of zinc cobaltate nanoparticles and nanorods on reduced graphene oxide porous networks toward high-performance supercapacitor electrodes. Journal of Alloys and Compounds, 2016, 668, 1-7.	5.5	24
29	Hydrogen sulfide detection properties of Pt-gated AlGaN/GaN HEMT-sensor. Sensors and Actuators B: Chemical, 2018, 274, 636-644.	7.8	24
30	Solvent effect on electrospinning of nanotubes: The case of magnesium ferrite. Journal of Alloys and Compounds, 2013, 577, 97-102.	5.5	22
31	Construction of 1D/2D Î± -Fe ₂ O ₃ /SnO ₂ Hybrid Nanoarrays for Sub-ppm Acetone Detection. Research, 2020, 2020, 2196063.	5.7	21
32	Enhanced photoelectrochemical sensor based on ZnOâ€“SnO2 composite nanotubes. Journal of Alloys and Compounds, 2014, 614, 373-378.	5.5	18
33	Luminescent enhancement in ZrO2:Tb3+, Gd3+nanoparticles by active-shell modification. CrystEngComm, 2014, 16, 1378-1383.	2.6	6
34	Rapid and Efficient Detection of NH₃ at Room Temperature Using CuO/WS₂ Nanohybrids. IEEE Sensors Journal, 2022, 22, 12539-12546.	4.7	6
35	Synthesis of low vacancies PB with high electrochemical performance using a facile method. Materials Technology, 2020, 35, 759-766.	3.0	5
36	Tunable Humidity-Sensing Performance of Graphene Oxide With Leaf-Vein-Like Multiwall Carbon Nanotube Conductive Networks. IEEE Sensors Journal, 2021, 21, 18469-18476.	4.7	5

#	Article	IF	Citations
37	Synthesis of Hollow Nano-Structured Cobalt Metal-Organic Framework for Supercapacitor Electrodes. , 2018, , .		4
38	Pt-AlGaN/GaN HEMT-Sensor for Hydrogen Sulfide (H2S) Detection. Proceedings (mdpi), 2017, 1, .	0.2	3
39	Structural Transformation of Mo-Doped In₂O₃ Nanotubes by Electron-Beam Irradiation. IEEE Nanotechnology Magazine, 2018, 17, 705-708.	2.0	3
40	Pt-AlGaN/GaN HEMT-sensor layout optimization for enhancement of hydrogen detection. , 2017, , .		1
41	High Sensitivity Gas Sensor Based on Porous GaN Nanorods with Excellent High-Temperature Stability. , 2019, , .		1
42	A Micro-Hotplate for Mems-Based H2s Sensor. , 2019, , .		1
43	An In₂O₃ Nanotubes based Gas Sensor Array combined with Machine Learning Algorithms for Trimethylamine Detection. , 2021, , .		1
44	Enhanced ethanol sensing properties of NiO@ZnO core-shell nanofibers with P-N heterojunction. , 2017, , .		0
45	Fabrication of MoO<inf>x</inf>-decorated In<inf>2</inf>O<inf>3</inf> nanotubes by electron-beam irradiation. , 2017, , .		0
46	Hierarchical Assembly of Î±-Fe2O3 Nanorods on SnO2 Nanosheet Arrays for Acetone Detection at Sub-ppm Level. , 2019, , .		0