

# Tao Wang

## List of Publications by Year in descending order

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17  
papers

1,347  
citations

623734

14  
h-index

888059

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all docs

17  
docs citations

17  
times ranked

2105  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on Graphene-Based Gas/Vapor Sensors with Unique Properties and Potential Applications. Nano-Micro Letters, 2016, 8, 95-119.	27.0	491
2	Studies on NH <sub>3</sub> gas sensing by zinc oxide nanowire-reduced graphene oxide nanocomposites. Sensors and Actuators B: Chemical, 2017, 252, 284-294.	7.8	115
3	Enhanced formaldehyde detection based on Ni doping of SnO <sub>2</sub> nanoparticles by one-step synthesis. Sensors and Actuators B: Chemical, 2018, 263, 120-128.	7.8	107
4	One-step electrodeposition of nickel cobalt sulfide nanosheets on Ni nanowire film for hybrid supercapacitor. Electrochimica Acta, 2018, 259, 617-625.	5.2	104
5	Two-dimensional NiO nanosheets with enhanced room temperature NO <sub>2</sub> sensing performance via Al doping. Physical Chemistry Chemical Physics, 2017, 19, 19043-19049.	2.8	86
6	Nanofoaming to Boost the Electrochemical Performance of Ni@Ni(OH) <sub>2</sub> Nanowires for Ultrahigh Volumetric Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 27868-27876.	8.0	82
7	A dual CoNi MOF nanosheet/nanotube assembled on carbon cloth for high performance hybrid supercapacitors. Electrochimica Acta, 2020, 342, 136124.	5.2	77
8	Cobalt Doping To Boost the Electrochemical Properties of Ni@Ni <sub>3</sub> S <sub>2</sub> Nanowire Films for High-Performance Supercapacitors. ChemSusChem, 2017, 10, 4056-4065.	6.8	61
9	Glucose-assisted synthesis of hierarchical NiO-ZnO heterostructure with enhanced glycol gas sensing performance. Sensors and Actuators B: Chemical, 2021, 329, 129167.	7.8	56
10	Construction, Application and Verification of a Novel Formaldehyde Gas Sensor System Based on Ni-Doped SnO <sub>2</sub> Nanoparticles. IEEE Sensors Journal, 2021, 21, 11023-11030.	4.7	43
11	A novel Ni@Ni(OH) <sub>2</sub> coaxial core-sheath nanowire membrane for electrochemical energy storage electrodes with high volumetric capacity and excellent rate capability. Electrochimica Acta, 2015, 182, 464-473.	5.2	28
12	Microwave preparation and remarkable ethanol sensing properties of ZnO particles with controlled morphologies in water-ethylene glycol binary solvent system. Sensors and Actuators B: Chemical, 2018, 255, 1006-1014.	7.8	28
13	In situ preparation of magnetic Ni-Au/graphene nanocomposites with electron-enhanced catalytic performance. Journal of Alloys and Compounds, 2017, 706, 377-386.	5.5	27
14	Enhancing room-temperature NO <sub>2</sub> detection of cobalt phthalocyanine based gas sensor at an ultralow laser exposure. Physical Chemistry Chemical Physics, 2020, 22, 18499-18506.	2.8	14
15	Classification and Concentration Prediction of VOCs With High Accuracy Based on an Electronic Nose Using an ELM-ELM Integrated Algorithm. IEEE Sensors Journal, 2022, 22, 14458-14469.	4.7	13
16	Hierarchical heterostructures based on prickly Ni nanowires/Cu <sub>2</sub> O nanoparticles with enhanced photocatalytic activity. Dalton Transactions, 2016, 45, 7258-7266.	3.3	11
17	Unmanned Gas-Sensing System for Large-Scale Measurement of Electronic Nose. Lecture Notes in Electrical Engineering, 2022, , 629-637.	0.4	4