

Dong-Zhi Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

140
papers

6,919
citations

48
h-index

79
g-index

160
ext. papers

9,466
ext. citations

7
avg, IF

7.05
L-index

#	Paper	IF	Citations
140	Self-powered multifunctional monitoring and analysis system based on dual-triboelectric nanogenerator and chitosan/activated carbon film humidity sensor. <i>Nano Energy</i> , 2022 , 94, 106881	17.1	7
139	Highly sensitive ammonia sensor based on PSS doped ZIF-8-derived porous carbon/polyaniline hybrid film coated on quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , 2022 , 357, 131419	8.5	5
138	UV illumination-enhanced ultrasensitive ammonia gas sensor based on (001)TiO/MXene heterostructure for food spoilage detection. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127160	12.8	23
137	Green light-driven acetone gas sensor based on electrospun CdS nanospheres/CoO nanofibers hybrid for the detection of exhaled diabetes biomarker. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 261-271	9.3	8
136	Construction and DFT study of Pd decorated WSe2 nanosheets for highly sensitive CO detection at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2022 , 360, 131634	8.5	4
135	Highly sensitive xylene gas sensor based on NiO-NiCo2O4 hierarchical spherical structure constructed with nanorods. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	1
134	Ultra-sensitive, stretchable, and bidirectional wearable strain sensor for human motion detection. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 7076-7086	7.1	4
133	Rotating triboelectric-electromagnetic nanogenerator driven by tires for self-powered MXene-based flexible wearable electronics. <i>Chemical Engineering Journal</i> , 2022 , 136914	14.7	6
132	Fabrication and properties of room temperature ammonia gas sensor based on SnO2 modified WSe2 nanosheets heterojunctions. <i>Applied Surface Science</i> , 2022 , 153564	6.7	2
131	Performance prediction of 2D vertically stacked MoS2-WS2 heterostructures base on first-principles theory and Pearson correlation coefficient. <i>Applied Surface Science</i> , 2022 , 596, 153498	6.7	4
130	UV enhanced NO2 gas sensing at room temperature based on coral-like tin diselenide/MOFs-derived nanoflower-like tin dioxide heteronanostructures. <i>Sensors and Actuators B: Chemical</i> , 2021 , 131049	8.5	6
129	High-sensitive NO2 sensor based on p-NiCo2O4/n-WO3 heterojunctions. <i>Sensors and Actuators B: Chemical</i> , 2021 , 352, 130912	8.5	7
128	Ammonia gas sensing properties and density functional theory investigation of coral-like Au-SnSe2 Schottky junction. <i>Sensors and Actuators B: Chemical</i> , 2021 , 332, 129440	8.5	15
127	Room Temperature Acetone-Sensing Properties of Ru-Doped MoSe2 Nanoflowers: Experimental and Density Functional Theory Study. <i>IEEE Electron Device Letters</i> , 2021 , 42, 739-742	4.4	0
126	Flexible Pressure Sensor Based on Molybdenum Diselide/Multi-Walled Carbon Nanotubes for Human Motion Detection. <i>IEEE Sensors Journal</i> , 2021 , 21, 10491-10497	4	3
125	An Electrochemical Nonenzymatic Microsensor Modified by Nickel Cobaltate Nanospheres for Glucose Sensing in Urine. <i>IEEE Sensors Journal</i> , 2021 , 21, 13074-13081	4	4
124	Construction of MoO3/MoSe2 nanocomposite-based gas sensor for low detection limit trimethylamine sensing at room temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 17301-17310	2.1	2

123	Room-Temperature Benzene Sensing with Au-Doped ZnO Nanorods/Exfoliated WSe Nanosheets and Density Functional Theory Simulations. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33392-33403	8.5	17
122	Highly Sensitive QCM Humidity Sensor Based on MOFs-Derived SnO ₂ /Chitosan Hybrid Film. <i>IEEE Sensors Journal</i> , 2021 , 21, 4385-4390	4	9
121	Diversiform sensors and sensing systems driven by triboelectric and piezoelectric nanogenerators. <i>Coordination Chemistry Reviews</i> , 2021 , 427, 213597	23.2	32
120	Highly sensitive ammonia gas sensor based on metal-organic frameworks-derived CoSe ₂ @nitrogen-doped amorphous carbon decorated with multi-walled carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2021 , 860, 158252	5.7	15
119	A self-powered 2D-material sensor unit driven by a SnSe piezoelectric nanogenerator. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4716-4723	13	10
118	Ultra-highly sensitive humidity sensing by polydopamine/graphene oxide nanostructure on quartz crystal microbalance. <i>Applied Surface Science</i> , 2021 , 538, 147816	6.7	11
117	Sulfur dioxide gas sensing at room temperature based on tin selenium/tin dioxide hybrid prepared via hydrothermal and surface oxidation treatment. <i>Rare Metals</i> , 2021 , 40, 1588-1596	5.5	11
116	Microwave-assisted hydrothermal synthesis of copper oxide-based gas-sensitive nanostructures. <i>Rare Metals</i> , 2021 , 40, 1477-1493	5.5	24
115	Adsorption of gas molecules (NH ₃ , C ₂ H ₆ O, C ₃ H ₆ O, CO, H ₂ S) on a noble metal (Ag, Au, Pt, Pd, Ru)-doped MoSe ₂ monolayer: a first-principles study. <i>New Journal of Chemistry</i> , 2021 , 45, 12367-12376	3.6	4
114	A high-stability weighing paper/polytetrafluoroethylene-based triboelectric nanogenerator for self-powered In ₂ O ₃ nanocubes/SnS ₂ nanoflower NO ₂ gas sensors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14495-14506	13	18
113	A humidity sensing and respiratory monitoring system constructed from quartz crystal microbalance sensors based on a chitosan/polypyrrole composite film. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14524-14533	13	17
112	Electrospinning of Flexible Poly(vinyl alcohol)/MXene Nanofiber-Based Humidity Sensor Self-Powered by Monolayer Molybdenum Diselenide Piezoelectric Nanogenerator. <i>Nano-Micro Letters</i> , 2021 , 13, 57	19.5	67
111	Hydrogen Sulfide Gas Sensor Based on Graphitic Nitrogen Carbide/Alpha-Iron Oxide Binary Nanostructure. <i>IEEE Sensors Journal</i> , 2021 , 21, 4250-4256	4	0
110	Multifunctional Latex/Polytetrafluoroethylene-Based Triboelectric Nanogenerator for Self-Powered Organ-like MXene/Metal-Organic Framework-Derived CuO Nanohybrid Ammonia Sensor. <i>ACS Nano</i> , 2021 , 15, 2911-2919	16.7	118
109	Self-powered ethanol gas sensor based on the piezoelectric Ag/ZnO nanowire arrays at room temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 7739-7750	2.1	7
108	High-performance ammonia gas sensor based on bimetallic oxide Zn ₂ SnO ₄ decorated with reduced graphene oxide. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 20139-20148	2.1	0
107	MXene/Co ₃ O ₄ composite based formaldehyde sensor driven by ZnO/MXene nanowire arrays piezoelectric nanogenerator. <i>Sensors and Actuators B: Chemical</i> , 2021 , 339, 129923	8.5	31
106	A High-performance Room Temperature Benzene Gas Sensor Based on CoTiO ₃ Covered TiO ₂ Nanospheres Decorated With Pd Nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2021 , 350, 130830	8.5	27

105	Hydrogen sulfide gas sensing properties of metal organic framework-derived Fe ₂ O ₃ hollow nanospheres decorated with MoSe ₂ nanoflowers. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130221	8.5	12
104	High-performance humidity sensor based on graphitic carbon nitride/polyethylene oxide and construction of sensor array for non-contact humidity detection. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130219	8.5	4
103	Polydopamine-modified SnO ₂ nanofiber composite coated QCM gas sensor for high-performance formaldehyde sensing. <i>Sensors and Actuators B: Chemical</i> , 2021 , 345, 130299	8.5	21
102	In situ polymerized polyaniline/MXene (V ₂ C) as building blocks of supercapacitor and ammonia sensor self-powered by electromagnetic-triboelectric hybrid generator. <i>Nano Energy</i> , 2021 , 88, 106242	17.1	20
101	Multifunctional poly(vinyl alcohol)/Ag nanofibers-based triboelectric nanogenerator for self-powered MXene/tungsten oxide nanohybrid NO ₂ gas sensor. <i>Nano Energy</i> , 2021 , 89, 106410	17.1	54
100	Two-step hydrothermal fabrication of CeO ₂ -loaded MoS ₂ nanoflowers for ethanol gas sensing application. <i>Applied Surface Science</i> , 2021 , 568, 150942	6.7	2
99	Adsorption of atmospheric gas molecules (NH ₃ , H ₂ S, CO, H ₂ , CH ₄ , NO, NO ₂ , C ₆ H ₆ and C ₃ H ₆ O) on two-dimensional polyimide with hydrogen bonding: a first-principles study. <i>New Journal of Chemistry</i> , 2021 , 45, 5240-5251	3.6	5
98	Flexible wearable humidity sensor based on cerium oxide/graphitic carbon nitride nanocomposite self-powered by motion-driven alternator and its application for human physiological detection. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5619-5629	13	25
97	Self-assembly fabrication of titanium dioxide nanospheres-decorated tungsten diselenide hexagonal nanosheets for ethanol gas sensing application. <i>Applied Surface Science</i> , 2020 , 527, 146781	6.7	21
96	High-sensitivity resistive humidity sensor based on graphitic carbon nitride nanosheets and its application. <i>Sensors and Actuators B: Chemical</i> , 2020 , 315, 128058	8.5	24
95	High-performance NO ₂ gas sensor based on bimetallic oxide CuWO ₄ decorated with reduced graphene oxide. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 6706-6715	2.1	9
94	Carbon microsphere-templated synthesis of ZnCo ₂ O ₄ hollow spheres functionalized with Ag nanoparticles for sub-ppm-level acetone gas detection. <i>Ceramics International</i> , 2020 , 46, 15176-15182	5.1	11
93	Diversiform metal oxide-based hybrid nanostructures for gas sensing with versatile prospects. <i>Coordination Chemistry Reviews</i> , 2020 , 413, 213272	23.2	79
92	Hydrothermal Fabrication of Ag-Decorated MoSe ₂ /Reduced Graphene Oxide Ternary Hybrid for H ₂ Gas Sensing. <i>IEEE Sensors Journal</i> , 2020 , 20, 13262-13268	4	7
91	Ammonia sensing properties of metal-organic frameworks-derived zinc oxide/reduced graphene oxide nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 4463-4472	2.1	14
90	Nanoheterostructure Construction and DFT Study of Ni-Doped InO Nanocubes/WS Hexagon Nanosheets for Formaldehyde Sensing at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11979-11989	9.5	77
89	Carbon monoxide gas sensing properties of metal-organic frameworks-derived tin dioxide nanoparticles/molybdenum diselenide nanoflowers. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127369	8.5	53
88	High-performance flexible self-powered tin disulfide nanoflowers/reduced graphene oxide nanohybrid-based humidity sensor driven by triboelectric nanogenerator. <i>Nano Energy</i> , 2020 , 67, 104251	17.1	128

87	Tungsten trioxide nanoparticles decorated tungsten disulfide nanoheterojunction for highly sensitive ethanol gas sensing application. <i>Applied Surface Science</i> , 2020 , 503, 144063	6.7	22
86	Room temperature ammonia gas sensor based on polyaniline/copper ferrite binary nanocomposites. <i>Sensors and Actuators B: Chemical</i> , 2020 , 322, 128615	8.5	26
85	Green light-driven enhanced ammonia sensing at room temperature based on seed-mediated growth of gold-ferrosoferric oxide dumbbell-like heteronanostructures. <i>Nanoscale</i> , 2020 , 12, 18815-18823	7.7	17
84	W18O49/Ti3C2Tx Mxene nanocomposites for highly sensitive acetone gas sensor with low detection limit. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127274	8.5	93
83	Flexible humidity sensing and portable applications based on MoSe2 nanoflowers/copper tungstate nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127234	8.5	30
82	Polypyrrole-Modified Tin Disulfide Nanoflower-Based Quartz Crystal Microbalance Sensor for Humidity Sensing. <i>IEEE Sensors Journal</i> , 2019 , 19, 9166-9171	4	12
81	MOF-derived indium oxide hollow microtubes/MoS2 nanoparticles for NO2 gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2019 , 300, 127037	8.5	75
80	A high-performance room temperature methanol gas sensor based on alpha-iron oxide/polyaniline/PbS quantum dots nanofilm. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 17907-17915	2.1	10
79	High sensitivity portable capacitive humidity sensor based on In2O3 nanocubes-decorated GO nanosheets and its wearable application in respiration detection. <i>Sensors and Actuators B: Chemical</i> , 2019 , 299, 126973	8.5	53
78	Fabrication of tin disulfide/graphene oxide nanoflower on flexible substrate for ultrasensitive humidity sensing with ultralow hysteresis and good reversibility. <i>Sensors and Actuators B: Chemical</i> , 2019 , 287, 398-407	8.5	45
77	A First-Principles Study of the SF6 Decomposed Products Adsorbed Over Defective WS2 Monolayer as Promising Gas Sensing Device. <i>IEEE Transactions on Device and Materials Reliability</i> , 2019 , 19, 473-483	1.6	56
76	Enhanced SO2 gas sensing properties of metal organic frameworks-derived titanium dioxide/reduced graphene oxide nanostructure. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 11070-11078	2.1	14
75	Facile fabrication of graphene oxide/Nafion/indium oxide for humidity sensing with highly sensitive capacitance response. <i>Sensors and Actuators B: Chemical</i> , 2019 , 292, 187-195	8.5	33
74	Experimental and density functional theory investigation of Pt-loaded titanium dioxide/molybdenum disulfide nanohybrid for SO2 gas sensing. <i>New Journal of Chemistry</i> , 2019 , 43, 4900-4907	2.6	21
73	Flexible and highly sensitive H2S gas sensor based on in-situ polymerized SnO2/rGO/PANI ternary nanocomposite with application in halitosis diagnosis. <i>Sensors and Actuators B: Chemical</i> , 2019 , 289, 32-41	8.5	116
72	Fabrication of polypyrrole/graphene oxide hybrid nanocomposite for ultrasensitive humidity sensing with unprecedented sensitivity. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 4967-4976	2.1	12
71	Ultrasensitive H2S gas detection at room temperature based on copper oxide/molybdenum disulfide nanocomposite with synergistic effect. <i>Sensors and Actuators B: Chemical</i> , 2019 , 287, 346-355	8.5	55
70	Fabrication of Pd-Decorated MoSe2 Nanoflowers and Density Functional Theory Simulation Toward Ammonia Sensing. <i>IEEE Electron Device Letters</i> , 2019 , 40, 616-619	4.4	54

69	Hierarchical Nanoheterostructure of Tungsten Disulfide Nanoflowers Doped with Zinc Oxide Hollow Spheres: Benzene Gas Sensing Properties and First-Principles Study. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31245-31256	9.5	55
68	Flexible self-powered high-performance ammonia sensor based on Au-decorated MoSe ₂ nanoflowers driven by single layer MoS ₂ -flake piezoelectric nanogenerator. <i>Nano Energy</i> , 2019 , 65, 103974 ¹	17.1	136
67	In-situ polymerization of metal organic frameworks-derived ZnCo ₂ O ₄ /polypyrrole nanofilm on QCM electrodes for ultra-highly sensitive humidity sensing application. <i>Sensors and Actuators A: Physical</i> , 2019 , 295, 687-695	3.9	29
66	Ozone gas sensing properties of metal-organic frameworks-derived In ₂ O ₃ hollow microtubes decorated with ZnO nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2019 , 301, 127081	8.5	57
65	Facile Fabrication of Polyaniline Nanocapsule Modified Zinc Oxide Hexagonal Microdiscs for H ₂ S Gas Sensing Applications. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 1906-1913	3.9	32
64	Metal-organic frameworks-derived zinc oxide nanopolyhedra/S, N: graphene quantum dots/polyaniline ternary nanohybrid for high-performance acetone sensing. <i>Sensors and Actuators B: Chemical</i> , 2019 , 288, 232-242	8.5	68
63	Flexible MoS ₂ sensor arrays for high performance label-free ion sensing. <i>Sensors and Actuators A: Physical</i> , 2019 , 286, 51-58	3.9	23
62	Facile synthesis and ammonia gas sensing properties of NiO nanoparticles decorated MoS ₂ nanosheets heterostructure. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 573-581	2.1	30
61	Cobalt-doped indium oxide/molybdenum disulfide ternary nanocomposite toward carbon monoxide gas sensing. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 443-453	5.7	17
60	Humidity Sensing Properties of Metal Organic Framework-Derived Hollow Ball-Like TiO ₂ Coated QCM Sensor. <i>IEEE Sensors Journal</i> , 2019 , 19, 2909-2915	4	38
59	Liquefied Petroleum Gas Sensing Properties of ZnO/PPy/PbS QDs Nanocomposite Prepared by Self-Assembly Combining With SILAR Method. <i>IEEE Sensors Journal</i> , 2019 , 19, 2855-2862	4	22
58	Metal-organic frameworks-derived hollow zinc oxide/cobalt oxide nanoheterostructure for highly sensitive acetone sensing. <i>Sensors and Actuators B: Chemical</i> , 2019 , 283, 42-51	8.5	113
57	Recent advances in phosphorene as a sensing material. <i>Nano Today</i> , 2018 , 20, 13-32	17.9	105
56	Hierarchical assembly of urchin-like alpha-iron oxide hollow microspheres and molybdenum disulfide nanosheets for ethanol gas sensing. <i>Journal of Colloid and Interface Science</i> , 2018 , 523, 217-225 ²	9.3	27
55	High-performance QCM humidity sensor based on graphene oxide/tin oxide/polyaniline ternary nanocomposite prepared by in-situ oxidative polymerization method. <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 531-541	8.5	89
54	Fabrication of Pd-decorated TiO ₂ /MoS ₂ ternary nanocomposite for enhanced benzene gas sensing performance at room temperature. <i>Talanta</i> , 2018 , 182, 324-332	6.2	44
53	Flexible Strain Sensor Based on Layer-by-Layer Self-Assembled Graphene/Polymer Nanocomposite Membrane and Its Sensing Properties. <i>Journal of Electronic Materials</i> , 2018 , 47, 2263-2270	1.9	12
52	Ultrahigh-performance impedance humidity sensor based on layer-by-layer self-assembled tin disulfide/titanium dioxide nanohybrid film. <i>Sensors and Actuators B: Chemical</i> , 2018 , 266, 52-62	8.5	69

51	Humidity-sensing performance of layer-by-layer self-assembled tungsten disulfide/tin dioxide nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2018 , 265, 529-538	8.5	55
50	Facile fabrication of high-performance QCM humidity sensor based on layer-by-layer self-assembled polyaniline/graphene oxide nanocomposite film. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 1869-1877	8.5	205
49	Fabrication of polypyrrole/Zn ₂ SnO ₄ nanofilm for ultra-highly sensitive ammonia sensing application. <i>Sensors and Actuators B: Chemical</i> , 2018 , 274, 575-586	8.5	82
48	Layer-by-layer assembled In ₂ O ₃ nanocubes/flower-like MoS ₂ nanofilm for room temperature formaldehyde sensing. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 176-184	8.5	85
47	Flexible integrated black phosphorus sensor arrays for high performance ion sensing. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 358-364	8.5	30
46	Facile fabrication of polyaniline/multi-walled carbon nanotubes/molybdenum disulfide ternary nanocomposite and its high-performance ammonia-sensing at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2018 , 258, 895-905	8.5	102
45	Quartz Crystal Microbalance Sensor for Humidity Sensing Based on Layer-by-Layer Self-Assembled PDDAC/Graphene Oxide Film. <i>IEEE Sensors Journal</i> , 2018 , 18, 9471-9476	4	26
44	Illumination impact on monolayer MoS ₂ chemical sensor arrays. <i>Sensors and Actuators A: Physical</i> , 2018 , 283, 34-41	3.9	8
43	Construction of Co ₃ O ₄ nanorods/In ₂ O ₃ nanocubes heterojunctions for efficient sensing of NO ₂ gas at low temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 19558-19566	2.1	14
42	Hierarchical Self-Assembled SnS Nanoflower/ZnSnO Hollow Sphere Nanohybrid for Humidity-Sensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32631-32639	9.5	114
41	Ethanol gas sensing properties of lead sulfide quantum dots-decorated zinc oxide nanorods prepared by hydrothermal process combining with successive ionic-layer adsorption and reaction method. <i>Journal of Colloid and Interface Science</i> , 2018 , 528, 184-191	9.3	27
40	Fabrication of iron-doped titanium dioxide quantum dots/molybdenum disulfide nanoflower for ethanol gas sensing. <i>Journal of Colloid and Interface Science</i> , 2018 , 529, 556-567	9.3	32
39	Layer-by-Layer Self-assembly of CoO Nanorod-Decorated MoS Nanosheet-Based Nanocomposite toward High-Performance Ammonia Detection. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6462-6471	9.5	183
38	High-performance sulfur dioxide sensing properties of layer-by-layer self-assembled titania-modified graphene hybrid nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2017 , 245, 560-567	8.5	71
37	Layer-by-layer self-assembly of tricobalt tetroxide-polymer nanocomposite toward high-performance humidity-sensing. <i>Journal of Alloys and Compounds</i> , 2017 , 711, 652-658	5.7	27
36	Fabrication of platinum-loaded cobalt oxide/molybdenum disulfide nanocomposite toward methane gas sensing at low temperature. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 624-632	8.5	60
35	Carbon monoxide gas sensing at room temperature using copper oxide-decorated graphene hybrid nanocomposite prepared by layer-by-layer self-assembly. <i>Sensors and Actuators B: Chemical</i> , 2017 , 247, 875-882	8.5	98
34	Room-temperature high-performance ammonia gas sensor based on layer-by-layer self-assembled molybdenum disulfide/zinc oxide nanocomposite film. <i>Journal of Alloys and Compounds</i> , 2017 , 698, 476-483	5.7	93

33	Characterization of CuO-reduced graphene oxide sandwiched nanostructure and its hydrogen sensing characteristics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 2763-2768	2.1	16
32	Room-temperature SO ₂ gas-sensing properties based on a metal-doped MoS ₂ nanoflower: an experimental and density functional theory investigation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20666-20677 ²	13	202
31	Room-temperature highly sensitive CO gas sensor based on Ag-loaded zinc oxide/molybdenum disulfide ternary nanocomposite and its sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 1120-1128	8.5	96
30	Ultra-sensitive suspended atomically thin-layered black phosphorus mercury sensors. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 68-75	11.8	66
29	Room temperature hydrogen gas sensor based on palladium decorated tin oxide/molybdenum disulfide ternary hybrid via hydrothermal route. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 15-24	8.5	151
28	Quantitative detection of formaldehyde and ammonia gas via metal oxide-modified graphene-based sensor array combining with neural network model. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 55-65	8.5	213
27	Fabrication of palladium-zinc oxide-reduced graphene oxide hybrid for hydrogen gas detection at low working temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 1667-1673	2.1	23
26	Acetylene Gas-Sensing Properties of Layer-by-Layer Self-Assembled Ag-Decorated Tin Dioxide/Graphene Nanocomposite Film. <i>Nanomaterials</i> , 2017 , 7,	5.4	19
25	Humidity-Sensing Properties of One-Step Hydrothermally Synthesized Tin Dioxide-Decorated Graphene Nanocomposite on Polyimide Substrate. <i>Journal of Electronic Materials</i> , 2016 , 45, 4275-4281	1.9	20
24	Nitrogen Dioxide-Sensing Properties at Room Temperature of Metal Oxide-Modified Graphene Composite via One-Step Hydrothermal Method. <i>Journal of Electronic Materials</i> , 2016 , 45, 4324-4330	1.9	19
23	Layer-by-Layer Self-Assembly of Zinc Oxide/Graphene Oxide Hybrid Toward Ultrasensitive Humidity Sensing. <i>IEEE Electron Device Letters</i> , 2016 , 37, 916-919	4.4	57
22	Sensor array based on metal oxide modified graphene for the detection of multi-component mixed gas 2016 ,		2
21	Characterization of nickel oxide decorated-reduced graphene oxide nanocomposite and its sensing properties toward methane gas detection. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 3723-3730	2.1	64
20	Humidity-sensing properties of hierarchical ZnO/MWCNTs/ZnO nanocomposite film sensor based on electrostatic layer-by-layer self-assembly. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 2481-2487	2.1	22
19	Fabrication and characterization of an ultrasensitive humidity sensor based on metal oxide/graphene hybrid nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2016 , 225, 233-240	8.5	286
18	Layer-by-Layer Nanoassembly Fabrication and Humidity Sensing Behaviors of Multi-Walled Carbon Nanotubes/Polyelectrolyte Hybrid Film. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 6705-6710 ¹⁻³	1.3	13
17	Graphene field-effect transistors with tunable sensitivity for high performance Hg (II) sensing. <i>Applied Physics Letters</i> , 2016 , 109, 153101	3.4	34
16	Towards intrinsic MoS ₂ devices for high performance arsenite sensing. <i>Applied Physics Letters</i> , 2016 , 109, 063110	3.4	21

15	Facile Fabrication of MoS ₂ -Modified SnO ₂ Hybrid Nanocomposite for Ultrasensitive Humidity Sensing. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14142-9	9.5	317
14	Fabrication and characterization of layer-by-layer nano self-assembled ZnO nanorods/carbon nanotube film sensor for ethanol gas sensing application at room temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 7445-7451	2.1	36
13	Facile fabrication of ZnO nanocrystalline-modified graphene hybrid nanocomposite toward methane gas sensing application. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5937-5945	2.1	69
12	Air-Stable Black Phosphorus Devices for Ion Sensing. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24396-402	9.5	125
11	Room-temperature high-performance acetone gas sensor based on hydrothermal synthesized SnO ₂ -reduced graphene oxide hybrid composite. <i>RSC Advances</i> , 2015 , 5, 3016-3022	3.7	203
10	Characterization of a hybrid composite of SnO ₂ nanocrystal-decorated reduced graphene oxide for ppm-level ethanol gas sensing application. <i>RSC Advances</i> , 2015 , 5, 18666-18672	3.7	96
9	Characterization of layer-by-layer nano self-assembled carbon nanotube/polymer film sensor for ethanol gas sensing properties. <i>Microsystem Technologies</i> , 2014 , 20, 379-385	1.7	17
8	Humidity-sensing properties of chemically reduced graphene oxide/polymer nanocomposite film sensor based on layer-by-layer nano self-assembly. <i>Sensors and Actuators B: Chemical</i> , 2014 , 197, 66-72	8.5	346
7	Ultrahigh performance humidity sensor based on layer-by-layer self-assembly of graphene oxide/polyelectrolyte nanocomposite film. <i>Sensors and Actuators B: Chemical</i> , 2014 , 203, 263-270	8.5	203
6	Soft Measurement of Water Content in Oil-Water Two-Phase Flow Based on RS-SVM Classifier and GA-NN Predictor. <i>Measurement Science Review</i> , 2014 , 14, 219-226	1.7	10
5	Controllable fabrication and electromechanical characterization of electrophoresis assembled single-walled carbon nanotube-polymer film transducers. <i>Microsystem Technologies</i> , 2013 , 19, 1041-1047	1.7	1
4	Tunable mechanical properties of layer-by-layer self-assembled carbon nanotube/polymer nanocomposite membranes for M/NEMS. <i>Sensors and Actuators A: Physical</i> , 2012 , 185, 101-108	3.9	16
3	Sliding-Window Recursive PLS Based Soft Sensing Model and Its Application to the Quality Control of Rubber Mixing Process. <i>Communications in Computer and Information Science</i> , 2009 , 16-24	0.3	1
2	A fast self-healing multifunctional polyvinyl alcohol nano-organic composite hydrogel as a building block for highly sensitive strain/pressure sensors. <i>Journal of Materials Chemistry A</i> ,	13	11
1	An in situ polymerized polypyrrole/halloysite nanotube/silver nanoflower based flexible wearable pressure sensor with a large measurement range and high sensitivity. <i>Journal of Materials Chemistry C</i> ,	7.1	4