

Huiling Tai

List of Publications by Year in descending order

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169
papers

9,678
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23544

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all docs

170
docs citations

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times ranked

6799
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile, Flexible, Cost-Saving, and Environment-Friendly Paper-Based Humidity Sensor for Multifunctional Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21840-21849.	4.0	326
2	Paper-Based Sensors for Gas, Humidity, and Strain Detections: A Review. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31037-31053.	4.0	296
3	Fabrication and gas sensitivity of polyaniline-titanium dioxide nanocomposite thin film. <i>Sensors and Actuators B: Chemical</i> , 2007, 125, 644-650.	4.0	291
4	Flexible piezoelectric pressure sensor based on polydopamine-modified BaTiO ₃ /PVDF composite film for human motion monitoring. <i>Sensors and Actuators A: Physical</i> , 2020, 301, 111789.	2.0	272
5	Alveolus-Inspired Active Membrane Sensors for Self-Powered Wearable Chemical Sensing and Breath Analysis. <i>ACS Nano</i> , 2020, 14, 6067-6075.	7.3	271
6	Enhanced ammonia response of Ti ₃ C ₂ T nanosheets supported by TiO ₂ nanoparticles at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126874.	4.0	222
7	Self-Powered Respiration Monitoring Enabled By a Triboelectric Nanogenerator. <i>Advanced Materials</i> , 2021, 33, e2101262.	11.1	217
8	Evolution of breath analysis based on humidity and gas sensors: Potential and challenges. <i>Sensors and Actuators B: Chemical</i> , 2020, 318, 128104.	4.0	217
9	A high-performance flexible gas sensor based on self-assembled PANI-CeO ₂ nanocomposite thin film for trace-level NH ₃ detection at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 587-597.	4.0	196
10	A wireless energy transmission enabled wearable active acetone biosensor for non-invasive prediabetes diagnosis. <i>Nano Energy</i> , 2020, 74, 104941.	8.2	193
11	Self-powered room temperature NO ₂ detection driven by triboelectric nanogenerator under UV illumination. <i>Nano Energy</i> , 2018, 47, 316-324.	8.2	192
12	Influence of polymerization temperature on NH ₃ response of PANI/TiO ₂ thin film gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 319-326.	4.0	188
13	An integrated flexible self-powered wearable respiration sensor. <i>Nano Energy</i> , 2019, 63, 103829.	8.2	181
14	Visible light-assisted room temperature gas sensing with ZnO-Ag heterostructure nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 269-281.	4.0	177
15	Muscle Fibers Inspired High-Performance Piezoelectric Textiles for Wearable Physiological Monitoring. <i>Advanced Functional Materials</i> , 2021, 31, 2010962.	7.8	169
16	Recent advances in humidity sensors for human body related humidity detection. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14963-14980.	2.7	167
17	Halloysite nanotubes: Natural, environmental-friendly and low-cost nanomaterials for high-performance humidity sensor. <i>Sensors and Actuators B: Chemical</i> , 2020, 317, 128204.	4.0	160
18	Piezoelectric fiber composites with polydopamine interfacial layer for self-powered wearable biomonitoring. <i>Nano Energy</i> , 2021, 89, 106321.	8.2	151

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19	Novel highly sensitive QCM humidity sensor with low hysteresis based on graphene oxide (GO)/poly(ethyleneimine) layered film. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 145-154.	4.0	146
20	A facile respiration-driven triboelectric nanogenerator for multifunctional respiratory monitoring. <i>Nano Energy</i> , 2019, 58, 312-321.	8.2	143
21	Novel high-performance self-powered humidity detection enabled by triboelectric effect. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 144-152.	4.0	141
22	Room temperature formaldehyde sensor with enhanced performance based on reduced graphene oxide/titanium dioxide. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 149-156.	4.0	130
23	Toward agricultural ammonia volatilization monitoring: A flexible polyaniline/Ti3C2Tx hybrid sensitive films based gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2020, 316, 128144.	4.0	130
24	Ultrasensitive flexible NH ₃ gas sensor based on polyaniline/SrGe ₄ O ₉ nanocomposite with ppt-level detection ability at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2020, 319, 128293.	4.0	129
25	ZnO Nanoparticles/Reduced Graphene Oxide Bilayer Thin Films for Improved NH ₃ -Sensing Performances at Room Temperature. <i>Nanoscale Research Letters</i> , 2016, 11, 130.	3.1	126
26	A flexible NO ₂ gas sensor based on polypyrrole/nitrogen-doped multiwall carbon nanotube operating at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2019, 295, 86-92.	4.0	121
27	A review on Ti ₃ C ₂ T _x -based nanomaterials: synthesis and applications in gas and humidity sensors. <i>Rare Metals</i> , 2021, 40, 1459-1476.	3.6	121
28	Daily writing carbon ink: Novel application on humidity sensor with wide detection range, low detection limit and high detection resolution. <i>Sensors and Actuators B: Chemical</i> , 2021, 339, 129884.	4.0	113
29	PANI nanofibers-supported Nb ₂ CT _x nanosheets-enabled selective NH ₃ detection driven by TENG at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128923.	4.0	108
30	Preparation, Characterization and Comparative NH ₃ -sensing Characteristic Studies of PANI/inorganic Oxides Nanocomposite Thin Films. <i>Journal of Materials Science and Technology</i> , 2010, 26, 605-613.	5.6	104
31	Highly sensitive and selective NO ₂ sensor of alkalized V ₂ CT MXene driven by interlayer swelling. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130150.	4.0	104
32	Ultrasensitive flexible self-powered ammonia sensor based on triboelectric nanogenerator at room temperature. <i>Nano Energy</i> , 2018, 51, 231-240.	8.2	102
33	A High-Performances Flexible Temperature Sensor Composed of Polyethyleneimine/Reduced Graphene Oxide Bilayer for Real-Time Monitoring. <i>Advanced Materials Technologies</i> , 2019, 4, 1800594.	3.0	102
34	UV Illumination-Enhanced Molecular Ammonia Detection Based On a Ternary-Reduced Graphene Oxide-Titanium Dioxide-Au Composite Film at Room Temperature. <i>Analytical Chemistry</i> , 2019, 91, 3311-3318.	3.2	97
35	Ultrathin Nb ₂ CT nanosheets-supported polyaniline nanocomposite: Enabling ultrasensitive NH ₃ detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130069.	4.0	94
36	Enhanced ammonia-sensing properties of PANI-TiO ₂ -Au ternary self-assembly nanocomposite thin film at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 85-95.	4.0	92

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37	Paper and carbon ink enabled low-cost, eco-friendly, flexible, multifunctional pressure and humidity sensors. <i>Smart Materials and Structures</i> , 2021, 30, 055012.	1.8	91
38	A novel sensing mechanism for resistive gas sensors based on layered reduced graphene oxide thin films at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 135-142.	4.0	88
39	Simultaneous Biomechanical and Biochemical Monitoring for Self-Powered Breath Analysis. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7301-7310.	4.0	86
40	A Nb ₂ CTx/sodium alginate-based composite film with neuron-like network for self-powered humidity sensing. <i>Chemical Engineering Journal</i> , 2022, 438, 135588.	6.6	86
41	Facile development of high performance QCM humidity sensor based on protonated polyethylenimine-graphene oxide nanocomposite thin film. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 501-509.	4.0	81
42	Reduced graphene oxide-polyethylene oxide composite films for humidity sensing via quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2203-2210.	4.0	80
43	Gas sensors based on multiple-walled carbon nanotubes-polyethylene oxide films for toluene vapor detection. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 24-30.	4.0	79
44	An ingenious strategy for improving humidity sensing properties of multi-walled carbon nanotubes via poly-L-lysine modification. <i>Sensors and Actuators B: Chemical</i> , 2019, 289, 182-185.	4.0	79
45	Novel application of attapulgite on high performance and low-cost humidity sensors. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127534.	4.0	79
46	Vapor-assisted crystallization control toward high performance perovskite photovoltaics with over 18% efficiency in the ambient atmosphere. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13203-13210.	5.2	77
47	Inspiration from Daily Goods: A Low-Cost, Facilely Fabricated, and Environment-Friendly Strain Sensor Based on Common Carbon Ink and Elastic Core-Spun Yarn. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17474-17481.	3.2	76
48	A do-it-yourself approach to achieving a flexible pressure sensor using daily use materials. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13659-13667.	2.7	76
49	Edge-enriched MoS ₂ nanosheets modified porous nanosheet-assembled hierarchical In ₂ O ₃ microflowers for room temperature detection of NO ₂ with ultrahigh sensitivity and selectivity. <i>Journal of Hazardous Materials</i> , 2022, 434, 128836.	6.5	73
50	Improving sensitivity of self-powered room temperature NO ₂ sensor by triboelectric-photoelectric coupling effect. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	72
51	Excellent ammonia sensing performance of gas sensor based on graphene/titanium dioxide hybrid with improved morphology. <i>Applied Surface Science</i> , 2017, 419, 84-90.	3.1	67
52	Power generation humidity sensor based on primary battery structure. <i>Chemical Engineering Journal</i> , 2022, 446, 136910.	6.6	66
53	Enhanced humidity-sensing properties of novel graphene oxide/zinc oxide nanoparticles layered thin film QCM sensor. <i>Materials Letters</i> , 2016, 174, 28-31.	1.3	64
54	A wearable and highly sensitive strain sensor based on a polyethylenimine-rGO layered nanocomposite thin film. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7746-7752.	2.7	64

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55	A multifunctional wearable E-textile <i>in vitro</i> integrated nanowire-coated fabrics. Journal of Materials Chemistry C, 2020, 8, 8399-8409.	2.7	64
56	Copper phthalocyanine thin film transistors for hydrogen sulfide detection. Sensors and Actuators B: Chemical, 2013, 176, 1191-1196.	4.0	62
57	Enhanced positive humidity sensitive behavior of p-reduced graphene oxide decorated with n-WS2 nanoparticles. Rare Metals, 2021, 40, 1762-1767.	3.6	62
58	Novel chitosan/ZnO bilayer film with enhanced humidity-tolerant property: Endowing triboelectric nanogenerator with acetone analysis capability. Nano Energy, 2020, 78, 105256.	8.2	61
59	NiWO ₄ Microflowers on Multi-Walled Carbon Nanotubes for High-Performance NH ₃ Detection. ACS Applied Materials & Interfaces, 2021, 13, 52850-52860.	4.0	61
60	MXene-Sponge Based High-Performance Piezoresistive Sensor for Wearable Biomonitoring and Real-Time Tactile Sensing. Small Methods, 2022, 6, e2101051.	4.6	61
61	Enhanced NH ₃ sensing performance of polyaniline via a facile morphology modification strategy. Sensors and Actuators B: Chemical, 2022, 369, 132302.	4.0	61
62	Edge-Enriched Mo ₂ TiC ₂ T _x /MoS ₂ Heterostructure with Coupling Interface for Selective NO ₂ Monitoring. Advanced Functional Materials, 2022, 32, .	7.8	58
63	Self-assembly of TiO ₂ /polypyrrole nanocomposite ultrathin films and application for an NH ₃ gas sensor. International Journal of Environmental Analytical Chemistry, 2007, 87, 539-551.	1.8	54
64	High performance humidity sensor based on 3D mesoporous Co ₃ O ₄ hollow polyhedron for multifunctional applications. Applied Surface Science, 2022, 585, 152698.	3.1	52
65	The Art of Integrated Functionalization: Super Stable Black Phosphorus Achieved through Metal-Organic Framework Coating. Advanced Functional Materials, 2020, 30, 2002232.	7.8	51
66	Enhanced Blocking Effect: A New Strategy to Improve the NO ₂ Sensing Performance of Ti ₃ C ₂ T _x by β -Poly(L-glutamic acid) Modification. ACS Sensors, 2021, 6, 2858-2867.	4.0	51
67	A facile method to develop novel TiO ₂ /rGO layered film sensor for detecting ammonia at room temperature. Materials Letters, 2016, 165, 127-130.	1.3	49
68	Gold-loaded tellurium nanobelts gas sensor for ppt-level NO ₂ detection at room temperature. Sensors and Actuators B: Chemical, 2022, 355, 131300.	4.0	49
69	Polymer coated sensor array based on quartz crystal microbalance for chemical agent analysis. European Polymer Journal, 2008, 44, 1157-1164.	2.6	48
70	Facilely constructed two-sided microstructure interfaces between electrodes and cellulose paper active layer: eco-friendly, low-cost and high-performance piezoresistive sensor. Cellulose, 2021, 28, 6389.	2.4	48
71	A chitosan/amido-graphene oxide-based self-powered humidity sensor enabled by triboelectric effect. Rare Metals, 2021, 40, 1995-2003.	3.6	47
72	Gas sensors for CO ₂ detection based on RGO-PEI films at room temperature. Science Bulletin, 2014, 59, 1999-2005.	1.7	46

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73	A Simple Graphene NH ₃ Gas Sensor via Laser Direct Writing. <i>Sensors</i> , 2018, 18, 4405.	2.1	46
74	Constructing Electrically and Mechanically Self-Healing Elastomers by Hydrogen Bonded Intermolecular Network. <i>Langmuir</i> , 2020, 36, 3029-3037.	1.6	45
75	High performance ethylene sensor based on palladium-loaded tin oxide: Application in fruit quality detection. <i>Chinese Chemical Letters</i> , 2020, 31, 2045-2049.	4.8	44
76	Optimizing Piezoelectric Nanocomposites by High-Throughput Phase-Field Simulation and Machine Learning. <i>Advanced Science</i> , 2022, 9, e2105550.	5.6	42
77	Ag ₂ Te nanowires for humidity-resistant trace-level NO ₂ detection at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2022, 363, 131790.	4.0	42
78	Thin film transistors gas sensors based on reduced graphene oxide poly(3-hexylthiophene) bilayer film for nitrogen dioxide detection. <i>Chemical Physics Letters</i> , 2014, 614, 275-281.	1.2	41
79	Wind energy harvesting and self-powered flow rate sensor enabled by contact electrification. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 215601.	1.3	39
80	Facile and low-cost fabrication of a humidity sensor using naturally available sepiolite nanofibers. <i>Nanotechnology</i> , 2020, 31, 355501.	1.3	39
81	The Enhanced Formaldehyde-Sensing Properties of P3HT-ZnO Hybrid Thin Film OTFT Sensor and Further Insight into Its Stability. <i>Sensors</i> , 2015, 15, 2086-2103.	2.1	38
82	Enhanced Formaldehyde-Sensing Performances of Mixed Polyethyleneimine-Multiwalled Carbon Nanotubes Composite Films on Quartz Crystal Microbalance. <i>IEEE Sensors Journal</i> , 2015, 15, 6904-6911.	2.4	38
83	The Fabrication and Optimization of Thin-Film Transistors Based on Poly(3-Hexylthiophene) Films for Nitrogen Dioxide Detection. <i>IEEE Sensors Journal</i> , 2016, 16, 1865-1871.	2.4	38
84	Surface Engineering of a 3D Topological Network for Ultrasensitive Piezoresistive Pressure Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38805-38812.	4.0	38
85	The Investigation of Reduced Graphene Oxide/P3HT Composite Films for Ammonia Detection. <i>Integrated Ferroelectrics</i> , 2014, 154, 73-81.	0.3	36
86	Facile primary battery-based humidity sensor for multifunctional application. <i>Sensors and Actuators B: Chemical</i> , 2022, 370, 132369.	4.0	34
87	Integrated cross-section interface engineering and surface encapsulating strategy: A high-response, waterproof, and low-cost paper-based bending strain sensor. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14003-14011.	2.7	33
88	The investigation of reduced graphene oxide@ SnO ₂ -polyaniline composite thin films for ammonia detection at room temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 833-841.	1.1	31
89	P-n heterojunction sensor of self-assembled polyaniline nano-thin film/microstructure silicon array for NH ₃ detection. <i>Chemical Physics Letters</i> , 2015, 621, 58-64.	1.2	30
90	Novel p-n heterojunction-type rGO/CeO ₂ bilayer membrane for room-temperature nitrogen dioxide detection. <i>Materials Letters</i> , 2017, 186, 49-52.	1.3	28

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91	Protrusion Microstructure-Induced Sensitivity Enhancement for Zinc Oxide@Carbon Nanotube Flexible Pressure Sensors. ACS Applied Electronic Materials, 2021, 3, 5506-5513.	2.0	28
92	Two-Sided Topological Architecture on a Monolithic Flexible Substrate for Ultrasensitive Strain Sensors. ACS Applied Materials & Interfaces, 2019, 11, 43543-43552.	4.0	27
93	Self-Polarization of PVDF Film Triggered by Hydrophilic Treatment for Pyroelectric Sensor with Ultra-Low Piezoelectric Noise. Nanoscale Research Letters, 2019, 14, 72.	3.1	26
94	Enhancing visible light-activated NO ₂ sensing properties of Au NPs decorated ZnO nanorods by localized surface plasmon resonance and oxygen vacancies. Materials Research Express, 2020, 7, 015924.	0.8	26
95	A sensitive film structure improvement of reduced graphene oxide based resistive gas sensors. Applied Physics Letters, 2014, 105, .	1.5	23
96	Facilely constructed randomly distributed surface microstructure for flexible strain sensor with high sensitivity and low detection limit. Journal Physics D: Applied Physics, 2021, 54, 284003.	1.3	23
97	Enhancing responsivity of ZnO nanowire based photodetectors by piezo-phototronic effect. Sensors and Actuators A: Physical, 2016, 241, 169-175.	2.0	22
98	Synergetic SERS Enhancement in a Metal-Like/Metal Double-Shell Structure for Sensitive and Stable Application. ACS Applied Materials & Interfaces, 2017, 9, 13564-13570.	4.0	22
99	A New Model and Its Application for the Dynamic Response of RGO Resistive Gas Sensor. Sensors, 2019, 19, 889.	2.1	21
100	Self-assembled graphene oxide/polyethyleneimine films as high-performance quartz crystal microbalance humidity sensors. Rare Metals, 2021, 40, 1597-1603.	3.6	21
101	Humidity sensing properties of different single-walled carbon nanotube composite films fabricated by layer-by-layer self-assembly technique. Applied Physics A: Materials Science and Processing, 2012, 109, 111-118.	1.1	19
102	Enhanced Acetone-Sensing Properties of PEI Thin Film by GO-NH ₂ Functional Groups Modification at Room Temperature. Frontiers in Materials, 2019, 5, .	1.2	19
103	Adsorption behaviors of gas molecules on the surface of ZnO nanocrystals under UV irradiation. Science China Technological Sciences, 2019, 62, 2226-2235.	2.0	18
104	Wearable and washable textile-based strain sensors via a single-step, environment-friendly method. Science China Technological Sciences, 2021, 64, 441-450.	2.0	18
105	The fabrication and optimization of OTFT formaldehyde sensors based on Poly(3-hexythiophene)/ZnO composite films. Science China Technological Sciences, 2013, 56, 1877-1882.	2.0	16
106	The effect of the channel curve on the performance of micromachined gas chromatography column. Sensors and Actuators B: Chemical, 2017, 239, 304-310.	4.0	16
107	Nanocomposite films of p-type MoS ₂ nanosheets/n-type ZnO nanowires: Sensitive and low-temperature ppb-level NO ₂ detection. Materials Letters, 2020, 262, 127148.	1.3	16
108	Designing Cu ²⁺ as a Partial Substitution of Protons in Polyaniline Emeraldine Salt: Room-Temperature-Recoverable H ₂ S Sensing Properties and Mechanism Study. ACS Applied Materials & Interfaces, 2022, 14, 27203-27213.	4.0	16

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109	Improved response/recovery speeds of ZnO nanoparticle-based sensor toward NO ₂ gas under UV irradiation induced by surface oxygen vacancies. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 11395-11403.	1.1	15
110	Flexible organic thin-film transistors based on poly(3-hexylthiophene) films for nitrogen dioxide detection. <i>Science China Technological Sciences</i> , 2018, 61, 1696-1704.	2.0	13
111	A Facile Strategy for Low Young's Modulus PDMS Microbeads Enhanced Flexible Capacitive Pressure Sensors. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2100019.	1.2	13
112	Terahertz Absorption Characteristics of NiCr Film and Enhanced Absorption by Reactive Ion Etching in a Microbolometer Focal Plane Array. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2013, 34, 431-436.	1.2	12
113	Improvement of column efficiency in MEMS-Based gas chromatography column. <i>RSC Advances</i> , 2014, 4, 3726-3731.	1.7	12
114	Self-adaptive temperature and humidity compensation based on improved deep BP neural network for NO ₂ detection in complex environment. <i>Sensors and Actuators B: Chemical</i> , 2022, 362, 131812.	4.0	12
115	A carbon monoxide sensor based on single-walled carbon nanotubes doped with copper chloride. <i>Science China Technological Sciences</i> , 2013, 56, 2576-2580.	2.0	11
116	The response comparison of a hydrogen-bond acidic polymer to sarin, soman and dimethyl methyl phosphonate based on a surface acoustic wave sensor. <i>Analytical Methods</i> , 2014, 6, 1951-1955.	1.3	11
117	High-separation efficiency micro-fabricated multi-capillary gas chromatographic columns for simulants of the nerve agents and blister agents. <i>Nanoscale Research Letters</i> , 2014, 9, 224.	3.1	11
118	A simple route to functionalize siloxane polymers for DMMP sensing. <i>Journal of Applied Polymer Science</i> , 2013, 130, 4516-4520.	1.3	10
119	Hydrogen-bond acidic polymers coated SAW sensors for 2,4-dinitrotoluene detection. <i>RSC Advances</i> , 2014, 4, 59643-59649.	1.7	10
120	Optimization of temperature uniformity of a serpentine thin film heater by a two-dimensional approach. <i>Microsystem Technologies</i> , 2019, 25, 69-82.	1.2	10
121	Development of a Novel Formaldehyde OTFT Sensor Based on P3HT/Fe ₂ O ₃ Nanocomposite Thin Film. <i>Integrated Ferroelectrics</i> , 2013, 144, 15-21.	0.3	8
122	MEMS-based column coated with reduced graphene oxide as stationary phase for gas chromatography. <i>RSC Advances</i> , 2017, 7, 32749-32756.	1.7	8
123	Effective Room-Temperature Ammonia-Sensitive Composite Sensor Based on Graphene Nanoplates and PANI. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, Q3148-Q3152.	0.9	8
124	Self-Assembly of 2D Nanosheets into 1D Nanostructures for Sensing NO ₂ . <i>Small Structures</i> , 2021, 2, 2100067.	6.9	8
125	Thermally Induced Anti-Aggregation Evolution of Thick Bulk Heterojunction for visible-NIR Organic Photodetectors. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	8
126	Preparation of bilayer/three-layer PEO-carbon nanotube composite thin films and their toluene-sensing application. <i>Science China Technological Sciences</i> , 2013, 56, 1124-1128.	2.0	7

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127	Self-powered humidity sensor based on triboelectric nanogenerator. , 2017, , .		7
128	Perspectives on self-powered respiration sensor based on triboelectric nanogenerator. Applied Physics Letters, 2021, 119, .	1.5	7
129	Gas sensors based on MWCNTs-PVP composite films for 1,2-dichloroethane vapor detection. Journal of Materials Science: Materials in Electronics, 2014, 25, 5095-5100.	1.1	6
130	Piezoelectric Textiles: Muscle Fibers Inspired High-Performance Piezoelectric Textiles for Wearable Physiological Monitoring (Adv. Funct. Mater. 19/2021). Advanced Functional Materials, 2021, 31, 2170136.	7.8	6
131	Self-Powered Respiration Monitoring Enabled By a Triboelectric Nanogenerator (Adv. Mater. 35/2021). Advanced Materials, 2021, 33, 2170277.	11.1	6
132	Design and Development of MEMS Capacitive Large-Scale Strain Sensors. Integrated Ferroelectrics, 2013, 147, 123-130.	0.3	4
133	Development and Comparison Analysis of OTFT Gas Sensors Based on P3HT-ZnO Composite Film and P3HT/ZnO Bilayer Film. Integrated Ferroelectrics, 2014, 153, 65-72.	0.3	4
134	One-pot preparation and applications of self-healing, self-adhesive PAA-PDMS elastomers. Journal of Semiconductors, 2019, 40, 112602.	2.0	4
135	MXene-Sponge Based High-Performance Piezoresistive Sensor for Wearable Biomonitoring and Real-Time Tactile Sensing (Small Methods 2/2022). Small Methods, 2022, 6, .	4.6	4
136	Temperature-programmed multicapillary gas chromatograph microcolumn for the analysis of odorous sulfur pollutants. Journal of Separation Science, 2018, 41, 893-898.	1.3	3
137	Room-temperature light-activated chemical sensors for gas monitoring and applications: a review. Journal Physics D: Applied Physics, 2022, 55, 213001.	1.3	3
138	Comparative NH ₃ -sensing characteristic studies of PANI/TiO ₂ nanocomposite thin films doped with different acids. Proceedings of SPIE, 2008, , .	0.8	2
139	1,4-bis(2-mercaptoethyl)benzene based organic thin film transistors as gas sensor. , 2010, , .		2
140	Polyvinylpyrrolidone/reduced graphene oxide nanocomposites thin films coated on quartz crystal microbalance for NO ₂ detection at room temperature. Proceedings of SPIE, 2014, , .	0.8	2
141	Detection of 2,4-dinitrotoluene using hydrogen-bond acidic polymer coated SAW sensor. Science Bulletin, 2014, 59, 2608-2612.	1.7	2
142	The effect of MWCNTs on the performance of 1,4-bis(2-mercaptoethyl)benzene OTFT device and its gas-sensing property. Science China Technological Sciences, 2014, 57, 1101-1108.	2.0	2
143	Facile depositing strategy to fabricate a hetero-affinity hybrid film for improving gas-sensing performance. Nanotechnology, 2021, 32, 205502.	1.3	2
144	Surface modified polysiloxane a sensitive coatings for QCM sensors. Proceedings of SPIE, 2008, , .	0.8	1

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163	Enhanced Sensing Performance of the Palladium Loaded Tin Oxide to Ethylene Gas. ECS Meeting Abstracts, 2020, MA2020-01, 2048-2048.	0.0	0
164	The Room Temperature Gas Sensor Based on Polyaniline/SrGe4O9 Nanocomposites for Ppt-Level NH3 Detection. ECS Meeting Abstracts, 2020, MA2020-01, 2165-2165.	0.0	0
165	Self-Powered Membrane Sensor for Active Nitrogen Dioxide Detection and Respiratory Analysis. ECS Meeting Abstracts, 2020, MA2020-01, 2033-2033.	0.0	0
166	New insights into the controlled growth of hierarchical MoS2 nanospheres. , 2020, , .		0
167	Ultrathin niobium carbide nanosheets for humidity sensing. , 2020, , .		0
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