Yanbai Shen

List of Publications by Year
in descending order

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108 papers	5,093 citations	76196 40 h-index	98622 67 g-index
110 all docs	110 docs citations	110 times ranked	4212 citing authors

#	Article	IF	Citations
1	A new chemresistive NO2 sensing material: Hafnium diboride. Ceramics International, 2022, 48, 6835-6841.	2.3	1
2	Rational design of CuO/In2O3 heterostructures with flower-like structures for low temperature detection of formaldehyde. Journal of Alloys and Compounds, 2022, 896, 162959.	2.8	8
3	NiO-functionalized In2O3 flower-like structures with enhanced trimethylamine gas sensing performance. Applied Surface Science, 2022, 577, 151877.	3.1	33
4	Flower-like MoS2 hierarchical architectures assembled by 2D nanosheets sensitized with SnO2 quantum dots for high-performance NH3 sensing at room temperature. Sensors and Actuators B: Chemical, 2022, 353, 131191.	4.0	24
5	Optimal construction and gas sensing properties of SnO2@TiO2 heterostructured nanorods. Sensors and Actuators B: Chemical, 2022, 355, 131261.	4.0	14
6	Construction of rGO-SnO2 heterojunction for enhanced hydrogen detection. Applied Surface Science, 2022, 585, 152623.	3.1	24
7	Enhanced detection of ppb-level NO2 by uniform Pt-doped ZnSnO3 nanocubes. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 1295-1303.	2.4	5
8	High response and moisture resistance hydrogen sensors based on sandwich-structured PtSnx-rGO-SnO2 nanocomposites. Sensors and Actuators B: Chemical, 2022, 368, 132146.	4.0	9
9	Ultrasensitive and selective sensing material of ultrafine WO3 nanoparticles for the detection of ppb-level NO2. , 2022, 1, 261-267.		0
10	Effects of cross-sectional geometry on flow characteristics in spiral separators. Separation Science and Technology, 2021, 56, 2967-2977.	1.3	10
11	Synthesis of clinoptilolite-supported BiOCl/TiO2 heterojunction nanocomposites with highly-enhanced photocatalytic activity for the complete degradation of xanthates under visible light. Chemical Engineering Journal, 2021, 407, 126697.	6.6	95
12	P-n junctions based on CuO-decorated ZnO nanowires for ethanol sensing application. Applied Surface Science, 2021, 538, 148140.	3.1	66
13	Design and selection of flotation collectors for zinc oxide minerals based on bond valence model. Minerals Engineering, 2021, 160, 106681.	1.8	13
14	Hydrothermal synthesis of novel ternary hierarchical MoS2/TiO2/clinoptilolite nanocomposites with remarkably enhanced visible light response towards xanthates. Applied Surface Science, 2021, 542, 148578.	3.1	35
15	NH3 sensing performance of Pt-doped WO3Â·0.33H2O microshuttles induced from scheelite leaching solution. Vacuum, 2021, 184, 109936.	1.6	16
16	Room-temperature NO2 sensing properties and mechanism of CuO nanorods with Au functionalization. Sensors and Actuators B: Chemical, 2021, 328, 129070.	4.0	48
17	Hydrothermal growth of overlapping ZnO nanorod arrays on the porous substrate and their H2 gas sensing. Materials Characterization, 2021, 172, 110858.	1.9	3
18	Facile synthesis of ZnO-SnO2 hetero-structured nanowires for high-performance NO2 sensing application. Sensors and Actuators B: Chemical, 2021, 333, 129613.	4.0	65

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19	Facile synthesis of clinoptilolite-supported Ag/TiO2 nanocomposites for visible-light degradation of xanthates. Journal of the Taiwan Institute of Chemical Engineers, 2021, 122, 231-240.	2.7	25
20	Effects of rare earth elements doping on gas sensing properties of ZnO nanowires. Ceramics International, 2021, 47, 24218-24226.	2.3	35
21	Synthesis and gas sensing properties of NiO/ZnO heterostructured nanowires. Journal of Alloys and Compounds, 2021, 877, 160189.	2.8	30
22	Understanding adsorption of amine surfactants on the solvated quartz (1 0 1) surface by a jointed Dreiding-ClayFF force field. Applied Surface Science, 2021, 566, 150737.	3.1	12
23	Effect of noble metal elements on ethanol sensing properties of ZnSnO3 nanocubes. Journal of Alloys and Compounds, 2021, 887, 161409.	2.8	21
24	Potential application of an eco-friendly amine oxide collector in flotation separation of quartz from hematite. Separation and Purification Technology, 2021, 278, 119668.	3.9	16
25	One-step synthesis and the enhanced trimethylamine sensing properties of Co3O4/SnO2 flower-like structures. Vacuum, 2020, 171, 108994.	1.6	37
26	Effect of noble metal element on microstructure and NO2 sensing properties of WO3 nanoplates prepared from a low-grade scheelite concentrate. Journal of Alloys and Compounds, 2020, 818, 152927.	2.8	17
27	Ppb-level NO2 sensing properties of Au-doped WO3 nanosheets synthesized from a low-grade scheelite concentrate. Vacuum, 2020, 172, 109036.	1.6	25
28	Synthesis of NiO-In2O3 heterojunction nanospheres for highly selective and sensitive detection of ppb-level NO2. Vacuum, 2020, 172, 109086.	1.6	32
29	Adsorption and desorption of butyl xanthate on chalcopyrite. Journal of Materials Research and Technology, 2020, 9, 12654-12660.	2.6	18
30	Numerical simulation of the effect of burden profile on gas flow in a COREX shaft furnace. Powder Technology, 2020, 376, 537-548.	2.1	14
31	In-situ growth of V2O5 flower-like structures on ceramic tubes and their trimethylamine sensing properties. Chinese Chemical Letters, 2020, 31, 2133-2136.	4.8	16
32	Construction of ZnOâ€"SnO2 n-n junction for dual-sensing of nitrogen dioxide and ethanol. Vacuum, 2020, 181, 109615.	1.6	23
33	Effects of monohydric alcohols of varying chain lengths and isomeric structures on magnesite and dolomite flotation by dodecylamine. Powder Technology, 2020, 374, 233-240.	2.1	17
34	Synthesis of high-efficient TiO2/clinoptilolite photocatalyst for complete degradation of xanthate. Minerals Engineering, 2020, 159, 106640.	1.8	41
35	Highly selective NO2 chemiresistive gas sensor based on hierarchical In2O3 microflowers grown on clinoptilolite substrates. Journal of Alloys and Compounds, 2020, 828, 154395.	2.8	56
36	Fabrication, characterization and n-propanol sensing properties of perovskite-type ZnSnO3 nanospheres based gas sensor. Applied Surface Science, 2020, 509, 145335.	3.1	97

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37	Design and flotation performance of a novel hydroxy polyamine surfactant based on hematite reverse flotation desilication system. Journal of Molecular Liquids, 2020, 301, 112428.	2.3	32
38	Enhanced NO2 sensing performance of ZnO nanowires functionalized with ultra-fine In2O3 nanoparticles. Sensors and Actuators B: Chemical, 2020, 308, 127729.	4.0	88
39	Synthesis and in-situ noble metal modification of WO3Â·0.33H2O nanorods from a tungsten-containing mineral for enhancing NH3 sensing performance. Chinese Chemical Letters, 2020, 31, 2037-2040.	4.8	9
40	Design and application of highly responsive and selective rGO-SnO2 nanocomposites for NO2 monitoring. Materials Characterization, 2020, 163, 110284.	1.9	34
41	Low-Temperature and Highly Enhanced NO2 Sensing Performance of Au-Functionalized WO3 Microspheres with a Hierarchical Nanostructure. ECS Meeting Abstracts, 2020, MA2020-02, 3384-3384.	0.0	1
42	Controllable Synthesis of Zn-Doped Î±-Fe2O3 Nanowires for H2S Sensing. Nanomaterials, 2019, 9, 994.	1.9	17
43	In-situ growth of mesoporous In2O3 nanorod arrays on a porous ceramic substrate for ppb-level NO2 detection at room temperature. Applied Surface Science, 2019, 498, 143873.	3.1	69
44	Complex-surfactant-assisted hydrothermal synthesis of one-dimensional ZnO nanorods for high-performance ethanol gas sensor. Sensors and Actuators B: Chemical, 2019, 286, 501-511.	4.0	179
45	Effect of pore structure of the metakaolin-based porous substrate on the growth of SnO2 nanowires and their H2S sensing properties. Vacuum, 2019, 167, 118-128.	1.6	17
46	ZnO-Reduced Graphene Oxide Composites Sensitized with Graphitic Carbon Nitride Nanosheets for Ethanol Sensing. ACS Applied Nano Materials, 2019, 2, 2734-2742.	2.4	84
47	Bimetallic Au/Pd nanoparticles decorated ZnO nanowires for NO2 detection. Sensors and Actuators B: Chemical, 2019, 289, 160-168.	4.0	97
48	NO2 sensing properties of WO3 porous films with honeycomb structure. Journal of Alloys and Compounds, 2019, 789, 129-138.	2.8	25
49	InvestigationÂonÂTrimethylamineÂSensingÂPerformanceÂofÂPdOâ€DecoratedÂZnOÂFlowerâ€Like StructuresÂSynthesizedÂbyÂOneâ€•StepÂHydrothermalÂMethod. ChemistrySelect, 2019, 4, 2694-2702.	0.7	6
50	In-situ growth of ordered Pd-doped ZnO nanorod arrays on ceramic tube with enhanced trimethylamine sensing performance. Applied Surface Science, 2019, 463, 348-356.	3.1	69
51	Influence of Synthesis Conditions on Microstructure and NO2 Sensing Properties of WO3 Porous Films Synthesized by Non-Hydrolytic Solâ€"Gel Method. Nanomaterials, 2019, 9, 8.	1.9	16
52	SO2 sensing properties of SnO2 nanowires grown on a novel diatomite-based porous substrate. Ceramics International, 2019, 45, 2556-2565.	2.3	27
53	Low-temperature H2S sensing performance of Cu-doped ZnFe2O4 nanoparticles with spinel structure. Applied Surface Science, 2019, 470, 581-590.	3.1	37
54	Sub-ppm level NO2 sensing properties of polyethyleneimine-mediated WO3 nanoparticles synthesized by a one-pot hydrothermal method. Journal of Alloys and Compounds, 2019, 783, 103-112.	2.8	42

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55	Synthesis of ZnO nanowires/Au nanoparticles hybrid by a facile one-pot method and their enhanced NO2 sensing properties. Journal of Alloys and Compounds, 2019, 783, 503-512.	2.8	42
56	NO2 sensing properties of one-pot-synthesized ZnO nanowires with Pd functionalization. Sensors and Actuators B: Chemical, 2019, 280, 151-161.	4.0	151
57	Design of Au@WO3 coreâ˘shell structured nanospheres for ppb-level NO2 sensing. Sensors and Actuators B: Chemical, 2019, 282, 917-926.	4.0	181
58	A facile one-step hydrothermal synthesis of NiO/ZnO heterojunction microflowers for the enhanced formaldehyde sensing properties. Journal of Alloys and Compounds, 2018, 739, 260-269.	2.8	95
59	Xanthate sensing properties of Pt-functionalized WO3 microspheres synthesized by one-pot hydrothermal method. Ceramics International, 2018, 44, 4814-4823.	2.3	14
60	Highly selective NO2 sensor based on p-type nanocrystalline NiO thin films prepared by solâ€“gel dip coating. Ceramics International, 2018, 44, 753-759.	2.3	89
61	In-situ growth of ZnO nanowire arrays on the sensing electrode via a facile hydrothermal route for high-performance NO2 sensor. Applied Surface Science, 2018, 435, 1096-1104.	3.1	77
62	Low-temperature and highly enhanced NO2 sensing performance of Au-functionalized WO3 microspheres with a hierarchical nanostructure. Applied Surface Science, 2018, 434, 922-931.	3.1	101
63	Density Functional Theory Study on the Surface Properties and Floatability of Hemimorphite and Smithsonite. Minerals (Basel, Switzerland), 2018, 8, 542.	0.8	15
64	Fabrication of shrub-like CuO porous films by a top-down method for high-performance ethanol gas sensor. Vacuum, 2018, 157, 332-339.	1.6	37
65	Low-temperature formaldehyde gas sensors based on NiO-SnO2 heterojunction microflowers assembled by thin porous nanosheets. Sensors and Actuators B: Chemical, 2018, 273, 418-428.	4.0	177
66	Ultra-long Zn 2 SnO 4 -ZnO microwires based gas sensor for hydrogen detection. Applied Surface Science, 2017, 400, 440-445.	3.1	32
67	Assembly of 3D flower-like NiO hierarchical architectures by 2D nanosheets: synthesis and their sensing properties to formaldehyde. RSC Advances, 2017, 7, 3540-3549.	1.7	44
68	CuO hollow microspheres self-assembled with nanobars: Synthesis and their sensing properties to formaldehyde. Vacuum, 2017, 144, 272-280.	1.6	35
69	Elimination of the Adverse Effect of Calcium Ion on the Flotation Separation of Magnesite from Dolomite. Minerals (Basel, Switzerland), 2017, 7, 150.	0.8	35
70	Ethanol sensing properties of TeO2 thin films prepared by non-hydrolytic solâ€“gel process. Sensors and Actuators B: Chemical, 2016, 230, 667-672.	4.0	13
71	Catalytic effect of polyethylene glycol on sulfur oxidation in chalcopyrite bioleaching by Acidithiobacillus ferrooxidans. Minerals Engineering, 2016, 95, 74-78.	1.8	32
72	Nitrogen dioxide sensing using tungsten oxide microspheres with hierarchical nanorod-assembled architectures by a complexing surfactant-mediated hydrothermal route. Journal of Materials Chemistry A, 2016, 4, 1345-1352.	5.2	91

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73	Highly sensitive and selective room temperature alcohol gas sensors based on TeO2 nanowires. Journal of Alloys and Compounds, 2016, 664, 229-234.	2.8	23
74	Complexing surfactants-mediated hydrothermal synthesis of WO 3 microspheres for gas sensing applications. Materials Letters, 2016, 163, 150-153.	1.3	36
75	CTAB-Assisted Hydrothermal Synthesis of WO3Hierarchical Porous Structures and Investigation of Their Sensing Properties. Journal of Nanomaterials, 2015, 2015, 1-10.	1.5	3
76	Immobilization of Cu(II) and Zn(II) in simulated polluted soil using sulfurizing agent. Chemical Engineering Journal, 2015, 277, 312-317.	6.6	21
77	Synthesis of WO3 flower-like hierarchical architectures and their sensing properties. Journal of Alloys and Compounds, 2015, 649, 731-738.	2.8	38
78	Flower-like NiO hierarchical microspheres self-assembled with nanosheets: Surfactant-free solvothermal synthesis and their gas sensing properties. Journal of Alloys and Compounds, 2015, 636, 357-362.	2.8	73
79	Highly sensitive hydrogen sensors based on SnO2 nanomaterials with different morphologies. International Journal of Hydrogen Energy, 2015, 40, 15773-15779.	3.8	76
80	A low-temperature n-propanol gas sensor based on TeO₂ nanowires as the sensing layer. RSC Advances, 2015, 5, 29126-29130.	1.7	31
81	Synthesis of SnO2 nanorods and application to H2 sensor. Journal of Alloys and Compounds, 2014, 593, 271-274.	2.8	50
82	Microstructure and enhanced H2S sensing properties of Pt-loaded WO3 thin films. Sensors and Actuators B: Chemical, 2014, 193, 273-279.	4.0	68
83	Fe0.4Ta0.5P2O7-based composite membrane for high-temperature, low-humidity proton exchange membrane fuel cells. Electrochimica Acta, 2014, 128, 287-291.	2.6	17
84	Synthesis and Characterization of Single-Crystalline SnO₂Nanowires. Journal of Nanomaterials, 2013, 2013, 1-6.	1.5	8
85	Microstructure and Room-temperature H2 Sensing Properties of Undoped and Impurity-doped SnO2 Nanowires. Chemistry Letters, 2013, 42, 492-494.	0.7	10
86	Intermediate-temperature, non-humidified proton exchange membrane fuel cell with a highly proton-conducting Fe0.4Ta0.5P2O7 electrolyte. Electrochemistry Communications, 2012, 24, 82-84.	2.3	16
87	Proton conduction in non-doped and acceptor-doped metal pyrophosphate (MP2O7) composite ceramics at intermediate temperatures. Journal of Materials Chemistry, 2012, 22, 3973.	6.7	48
88	Proton conduction in AIII0.5BV0.5P2O7 compounds at intermediate temperatures. Journal of Materials Chemistry, 2012, 22, 14907.	6.7	15
89	Hydroxide Ion Conducting Antimony(V)â€Doped Tin Pyrophosphate Electrolyte for Intermediateâ€Temperature Alkaline Fuel Cells. Angewandte Chemie - International Edition, 2012, 51, 10786-10790.	7.2	30
90	Synthesis and characterization of dense SnP2O7â€“SnO2 composite ceramics as intermediate-temperature proton conductors. Journal of Materials Chemistry, 2011, 21, 663-670.	6.7	41

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91	Alumina substrate-supported electrochemical device for potential application as a diesel particulate matter sensor. Sensors and Actuators B: Chemical, 2010, 145, 708-712.	4.0	15
92	Proton conduction in metal pyrophosphates (MP2O7) at intermediate temperatures. Journal of Materials Chemistry, 2010, 20, 6214.	6.7	90
93	Microstructure and H2 gas sensing properties of undoped and Pd-doped SnO2 nanowires. Sensors and Actuators B: Chemical, 2009, 135, 524-529.	4.0	188
94	Influence of effective surface area on gas sensing properties of WO3 sputtered thin films. Thin Solid Films, 2009, 517, 2069-2072.	0.8	149
95	Preparation of WO3 nanoparticles and application to NO2 sensor. Applied Surface Science, 2009, 256, 1050-1053.	3.1	103
96	Hydrogen sensing properties of Pd-doped SnO2 sputtered films with columnar nanostructures. Thin Solid Films, 2009, 517, 6119-6123.	0.8	36
97	Facile synthesis and NO2 gas sensing of tungsten oxide nanorods assembled microspheres. Sensors and Actuators B: Chemical, 2009, 140, 514-519.	4.0	142
98	A generic approach for controlled synthesis of In2O3 nanostructures for gas sensing applications. Journal of Alloys and Compounds, 2009, 481, L35-L39.	2.8	42
99	Hydrogen sensors made of undoped and Pt-doped SnO2 nanowires. Journal of Alloys and Compounds, 2009, 488, L21-L25.	2.8	97
100	O2 and CO sensing of Ga2O3 multiple nanowire gas sensors. Sensors and Actuators B: Chemical, 2008, 129, 666-670.	4.0	169
101	Porous SnO2 sputtered films with high H2 sensitivity at low operation temperature. Thin Solid Films, 2008, 516, 5111-5117.	0.8	49
102	Synthesis and Characterization of TeO₂ Nanowires. Japanese Journal of Applied Physics, 2008, 47, 771.	0.8	41
103	Dealloying Derived Synthesis of W Nanopetal Films and Their Transformation into WO₃. Journal of Physical Chemistry C, 2008, 112, 1391-1395.	1.5	35
104	Fabrication of WO3 Nanoflakes by a Dealloying-based Approach. Chemistry Letters, 2008, 37, 296-297.	0.7	8
105	Room temperature gas sensing of p-type TeO2 nanowires. Applied Physics Letters, 2007, 90, 173119.	1.5	103
106	Influence of annealing on microstructure and NO2-sensing properties of sputtered WO3 thin films. Sensors and Actuators B: Chemical, 2007, 128, 173-178.	4.0	90
107	Effective Surface Area of SnO2-Sputtered Films Evaluated by Measurement of Physical Adsorption Isotherms. Japanese Journal of Applied Physics, 2006, 45, 9180-9184.	0.8	15
108	Influence of annealing temperature on microstructure and H2 sensing properties of Pd-doped SnO2 sputtered thin films. , 0, , .		1