Changsheng Xie

List of Publications by Year
in descending order

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262 papers	11,608 citations	23565 58 h-index	39667 94 g-index
262 all docs	262 docs citations	262 times ranked	13457 citing authors

#	Article	IF	Citations
1	Exposed Mo atoms induced by micropores enhanced H2S sensing of MoO3 nanoflowers. Journal of Hazardous Materials, 2022, 429, 128270.	12.4	22
2	Active W Sites Promoted by Defect Engineering Enhanced C₂H₆S₃ Sensing Performance of WO₃ Nanosheets. ACS Sensors, 2022, 7, 1894-1902.	7.8	13
3	Inhomogeneous oxidation of ultrathin SnS2 nanoflowers and its effect on lowâ€“temperatures NO2 gas sensing. Applied Surface Science, 2022, 601, 154213.	6.1	5
4	Two-Dimensional Mesoporous WO3 Nanosheets for Detection of Dimethyl Trisulfide. IEEE Sensors Journal, 2021, , 1-1.	4.7	0
5	SW-WAL: Leveraging Address Remapping of SSDs to Achieve Single-Write Write-Ahead Logging. , 2021, , .		0
6	Modeling of Threshold Voltage Distribution in 3D NAND Flash Memory. , 2021, , .		12
7	A universal strategy for the synthesis of porous two-dimensional transition metal oxide nanosheets based on chemical topology transformation. Science China Materials, 2021, 64, 2477-2485.	6.3	5
8	Exploiting Resistance Drift Characteristics to Improve Reliability of LDPC-Assisted Phase-Change Memory. IEEE Transactions on Device and Materials Reliability, 2021, 21, 324-330.	2.0	2
9	Selectivity of a ZnO@ZIF-71@PDMS Nanorod Array Gas Sensor Enhanced by Coating a Polymer Selective Separation Membrane. ACS Applied Materials & Interfaces, 2021, 13, 54589-54596.	8.0	18
10	Intelligent Prediction of Flash Lifetime via Online Domain Adaptation. , 2021, , .		1
11	Highly sensitive and ultralow detection limit of room-temperature NO2 sensors using in-situ growth of PPy on mesoporous NiO nanosheets. Organic Electronics, 2020, 77, 105504.	2.6	18
12	Catalytic Activation of Cobalt Doping Sites in ZIF-71-Coated ZnO Nanorod Arrays for Enhancing Gas-Sensing Performance to Acetone. ACS Applied Materials & Interfaces, 2020, 12, 48948-48956.	8.0	47
13	BeLDPC: Bit Errors Aware Adaptive Rate LDPC Codes for 3D TLC NAND Flash Memory. , 2020, , .		9
14	Mechanistic study of Nâ€“H- and Hâ€“N-codoping of a TiO₂ photocatalyst for efficient degradation of benzene under visible light. RSC Advances, 2020, 10, 2757-2766.	3.6	10
15	Synthesis of core-shell flower-like WO3@ZIF-71 with enhanced response and selectivity to H2S gas. Solid State Ionics, 2020, 350, 115278.	2.7	27
16	Molecular sieving property adjusted by the encapsulation of Ag nanoparticles into ZnO@ZIF-71 nanorod arrays. Chemical Communications, 2019, 55, 11045-11048.	4.1	7
17	A facile low-temperature synthesis of hierarchical porous Co₃O₄ micro/nano structures derived from ZIF-67 assisted by ammonium perchlorate. Inorganic Chemistry Frontiers, 2019, 6, 715-722.	6.0	68
18	High-Adhesion Stretchable Electrode via Cross-Linking Intensified Electroless Deposition on a Biomimetic Elastomeric Micropore Film. ACS Applied Materials & Interfaces, 2019, 11, 20535-20544.	8.0	33

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19	High selectivity for room temperature detection of ammonia via in-situ Raman spectroscopy based on Pt quantum dots modified WS2 nanosheets. Applied Surface Science, 2019, 485, 22-28.	6.1	11
20	Gas Adsorption at Metal Sites for Enhancing Gas Sensing Performance of ZnO@ZIF-71 Nanorod Arrays. Langmuir, 2019, 35, 3248-3255.	3.5	40
21	Effect of Heterointerface on NO2 Sensing Properties of In-Situ Formed TiO2 QDs-Decorated NiO Nanosheets. Nanomaterials, 2019, 9, 1628.	4.1	8
22	Structure evolution from Prussian-blue nanocubes to hollow nanocage composites via sodium tungstate etching. Chemical Communications, 2019, 55, 13386-13389.	4.1	13
23	Multilevel Microstructured Flexible Pressure Sensors with Ultrahigh Sensitivity and Ultrawide Pressure Range for Versatile Electronic Skins. Small, 2019, 15, e1804559.	10.0	163
24	Enhanced room-temperature NH3 gas sensing by 2D SnS2 with sulfur vacancies synthesized by chemical exfoliation. Sensors and Actuators B: Chemical, 2018, 262, 771-779.	7.8	140
25	Pore size dependent gas-sensing selectivity based on ZnO@ZIF nanorod arrays. Sensors and Actuators B: Chemical, 2018, 258, 1099-1106.	7.8	134
26	CuInS2 QDs decorated ring-like NiO for significantly enhanced room-temperature NO2 sensing performances via effective interfacial charge transfer. Sensors and Actuators B: Chemical, 2018, 256, 1001-1010.	7.8	18
27	Preparing high-adhesion silver coating on APTMS modified polyethylene with excellent anti-bacterial performance. Applied Surface Science, 2018, 436, 117-124.	6.1	21
28	Metalâ€“Organic Framework-Assisted Construction of TiO₂/Co₃O₄ Highly Ordered Necklace-like Heterostructures for Enhanced Ethanol Vapor Sensing Performance. Langmuir, 2018, 34, 14577-14585.	3.5	42
29	Red Phosphorus: An Elementary Semiconductor for Room-Temperature NO₂ Gas Sensing. ACS Sensors, 2018, 3, 2629-2636.	7.8	19
30	A Lowâ€Cost Polyaniline@Textileâ€Based Multifunctional Sensor for Simultaneously Detecting Tactile and Olfactory Stimuli. Macromolecular Materials and Engineering, 2018, 303, 1800340.	3.6	16
31	Tuning the Particle Size of Prussian Blue by a Dual Anion Source Method. Crystal Growth and Design, 2018, 18, 5780-5789.	3.0	18
32	Two-dimensional WS2-based nanosheets modified by Pt quantum dots for enhanced room-temperature NH3 sensing properties. Applied Surface Science, 2018, 455, 45-52.	6.1	77
33	Quantitative characterization of the long-term charge storage of a ZnO-based nanorod array film through persistent photoconductance. RSC Advances, 2018, 8, 16455-16463.	3.6	11
34	Metal-oxide-semiconductor based gas sensors: screening, preparation, and integration. Physical Chemistry Chemical Physics, 2017, 19, 6313-6329.	2.8	400
35	Effect of layer number on recovery rate of WS 2 nanosheets for ammonia detection at room temperature. Applied Surface Science, 2017, 414, 244-250.	6.1	107
36	A novel exposed facet dependent topological transformation mechanism from hydrozincite microspheres into hierarchical mesoporous ZnO structures. Materials Letters, 2017, 202, 142-145.	2.6	5

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37	Highly responsive chemical sensing on NO 2 at room temperature based on reduced porous graphene. Materials Letters, 2017, 204, 27-30.	2.6	12
38	Temperature & light modulation to enhance the selectivity of Pt-modified zinc oxide gas sensor. Sensors and Actuators B: Chemical, 2017, 247, 903-915.	7.8	41
39	Enhancing room-temperature NO2 sensing properties via forming heterojunction for NiO-rGO composited with SnO2 nanoplates. Sensors and Actuators B: Chemical, 2017, 243, 1010-1019.	7.8	78
40	Origin of the efficient catalytic thermal decomposition of ammonium perchlorate over (2â˜'1â˜'10) facets of ZnO nanosheets: surface lattice oxygen. RSC Advances, 2017, 7, 40262-40269.	3.6	18
41	2D WS2 nanosheets with TiO2 quantum dots decoration for high-performance ammonia gas sensing at room temperature. Sensors and Actuators B: Chemical, 2017, 253, 1034-1042.	7.8	128
42	Enhanced visible-light photocatalytic performance of highly-dispersed Pt/g-C₃N₄ nanocomposites by one-step solvothermal treatment. RSC Advances, 2017, 7, 33552-33557.	3.6	36
43	Porous LaFeO3/SnO2 nanocomposite film for CO2 detection with high sensitivity. Materials Chemistry and Physics, 2017, 186, 228-236.	4.0	45
44	BiOCl/TiO2 heterojunction network with high energy facet exposed for highly efficient photocatalytic degradation of benzene. Applied Surface Science, 2017, 396, 590-598.	6.1	50
45	In situ synthesis of C-TiO2/g-C3N4 heterojunction nanocomposite as highly visible light active photocatalyst originated from effective interfacial charge transfer. Applied Catalysis B: Environmental, 2017, 202, 489-499.	20.2	262
46	Fast identification of CO by using single Pt-modified WO3 sensing film based on optical modulation. Sensors and Actuators B: Chemical, 2016, 232, 506-513.	7.8	19
47	Charge separation in branched TiO2 nanorod array homojunction aroused by quantum effect for enhanced photocatalytic decomposition of gaseous benzene. Applied Surface Science, 2016, 389, 165-172.	6.1	29
48	The irreversible R-T curves of metal oxide gas sensor under programmed temperature cycle. Sensors and Actuators B: Chemical, 2016, 235, 481-491.	7.8	22
49	Facile synthesis of diverse graphene nanomeshes based on simultaneous regulation of pore size and surface structure. Scientific Reports, 2016, 6, 32310.	3.3	23
50	A method for modeling and deciphering the persistent photoconductance and long-term charge storage of ZnO nanorod arrays. Nano Research, 2016, 9, 2972-3002.	10.4	21
51	Enhanced room temperature NO₂ response of NiOâ€“SnO₂ nanocomposites induced by interface bonds at the pâ€“n heterojunction. Physical Chemistry Chemical Physics, 2016, 18, 5386-5396.	2.8	47
52	The microstructure, stoichiometric ratio and room temperature ferromagnetic properties of V-doped ZnO films deposited at different substrate temperatures. Journal of Materials Science: Materials in Electronics, 2016, 27, 163-170.	2.2	3
53	A modular calcination method to prepare modified N-doped TiO 2 nanoparticle with high photocatalytic activity. Applied Catalysis B: Environmental, 2016, 183, 308-316.	20.2	116
54	Effect of Nickel Vacancies on the Room-Temperature NO₂ Sensing Properties of Mesoporous NiO Nanosheets. Journal of Physical Chemistry C, 2016, 120, 3936-3945.	3.1	129

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55	Modeling the In-home Lifestyle of Chronic Anorectal Patients via a Sensing Home. Lecture Notes in Computer Science, 2016, , 188-199.	1.3	1
56	Sensing Home: A Cost-Effective Design for Smart Home via Heterogeneous Wireless Networks. Sensors, 2015, 15, 30270-30292.	3.8	16
57	Temperature-dependent photothermocatalytic mineralization of gaseous benzene based on rutile TiO2 nanorod array. Materials Letters, 2015, 139, 336-339.	2.6	6
58	A Novel Kind of Green Solid Propellant Containing H2O2Cured at Room Temperature (SPHP). Propellants, Explosives, Pyrotechnics, 2015, 40, 772-778.	1.6	2
59	Synchronously Deriving Electron Concentration and Mobility by Temperature- and Oxygen-Dependent Conductivity of Porous ZnO Nanocrystalline Film. Journal of Physical Chemistry C, 2015, 119, 695-702.	3.1	7
60	Enhanced gas sensing performance of Li-doped ZnO nanoparticle film by the synergistic effect of oxygen interstitials and oxygen vacancies. Applied Surface Science, 2015, 330, 126-133.	6.1	79
61	Fabrication and different photoelectric responses of nanocrystalline ZnO film irradiated with UV and white light in dry air. Applied Physics A: Materials Science and Processing, 2015, 120, 1299-1307.	2.3	3
62	A novel headspace integrated E-nose and its application in discrimination of Chinese medical herbs. Sensors and Actuators B: Chemical, 2015, 221, 556-563.	7.8	47
63	Effect of Grain-Boundaries in NiO Nanosheet Layers Room-Temperature Sensing Mechanism under NO₂. Journal of Physical Chemistry C, 2015, 119, 17930-17939.	3.1	60
64	Graphene-wrapped WO3 nanospheres with room-temperature NO2 sensing induced by interface charge transfer. Sensors and Actuators B: Chemical, 2015, 220, 201-209.	7.8	91
65	Interface Bonds Determined Gas-Sensing of SnO₂â€“SnS₂ Hybrids to Ammonia at Room Temperature. ACS Applied Materials & Interfaces, 2015, 7, 11359-11368.	8.0	191
66	CdS/TiO2 nanocomposite film and its enhanced photoelectric responses to dry air and formaldehyde induced by visible light at room temperature. Journal of Alloys and Compounds, 2015, 645, 17-23.	5.5	37
67	Room temperature NO₂ sensing: what advantage does the rGOâ€“NiO nanocomposite have over pristine NiO?. Physical Chemistry Chemical Physics, 2015, 17, 14903-14911.	2.8	59
68	Through-Process Analytical Modeling of Photoconductance Spectrum for Porous ZnO Nanocrystalline Film. Chemistry of Materials, 2015, 27, 2861-2874.	6.7	8
69	Surface doping of La ions into ZnO nanocrystals to lower the optimal working temperature for HCHO sensing properties. Physical Chemistry Chemical Physics, 2015, 17, 27437-27445.	2.8	61
70	Hierarchical ZnO hollow microspheres with exposed (001) facets as promising catalysts for the thermal decomposition of ammonium perchlorate. CrystEngComm, 2015, 17, 8689-8696.	2.6	26
71	Assessing multi-variable coupling effects of UV illumination, heat and oxygen on porous ZnO nanocrystalline film through electron concentration and mobility extraction. Physical Chemistry Chemical Physics, 2015, 17, 18045-18054.	2.8	6
72	Competitive influence of surface area and mesopore size on gas-sensing properties of SnO2 hollow fibers. Journal of Materials Science, 2015, 50, 7725-7734.	3.7	15

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73	Optimizing the packing density of TiO₂ nanorod arrays for enhanced light harvesting by a light trapping effect and its photocatalytic decomposition of gaseous benzene. CrystEngComm, 2015, 17, 1151-1158.	2.6	27
74	Highly efficient visible-light driven photocatalyst with enhanced charge separation prepared by annealing continuously in ammonia and vacuum. Applied Catalysis B: Environmental, 2015, 166-167, 1-8.	20.2	16
75	A novel method in the gas identification by using WO3 gas sensor based on the temperature-programmed technique. Sensors and Actuators B: Chemical, 2015, 206, 220-229.	7.8	29
76	Alterations in the endometrium of rats, rabbits, and Macaca mulatta that received an implantation of copper/low-density polyethylene nanocomposite. International Journal of Nanomedicine, 2014, 9, 1127.	6.7	8
77	A novel planar integration of all-solid-state capacitor and photodetector by an ultra-thin transparent sulfated TiO 2 film. Nano Energy, 2014, 9, 252-263.	16.0	20
78	Fabrication of porous TiO₂â€“SiO₂ multifunctional anti-reflection coatings by solâ€“gel spin coating method. RSC Advances, 2014, 4, 58101-58107.	3.6	17
79	Comparative study on the visible light driven photocatalytic activity between substitutional nitrogen doped and interstitial nitrogen doped TiO2. Applied Catalysis A: General, 2014, 488, 239-247.	4.3	34
80	Gas-sensing properties and in situ diffuse reflectance infrared Fourier transform spectroscopy study of formaldehyde adsorption and reactions on SnO2 films. Journal of Materials Research, 2014, 29, 139-147.	2.6	8
81	Tin oxide thick film by doping rare earth for detecting traces of CO2: Operating in oxygen-free atmosphere. Materials Research Bulletin, 2014, 52, 56-64.	5.2	19
82	Highly sensitive porous metal oxide films for early detection of electrical fire: Surface modification and high throughput screening. Sensors and Actuators B: Chemical, 2014, 191, 431-437.	7.8	8
83	Direct experimental evidence for SbZnâ€“2VZn complex as the important defect in the Sb-doped ZnO nanocrystals. Materials Letters, 2014, 116, 363-366.	2.6	17
84	Enhanced response to NO2 with CuO/ZnO laminated heterostructured configuration. Sensors and Actuators B: Chemical, 2014, 195, 500-508.	7.8	33
85	Gas sensing properties and in situ diffuse reflectance infrared Fourier transform spectroscopy study of trichloroethylene adsorption and reactions on SnO2 films. Applied Surface Science, 2014, 300, 98-103.	6.1	10
86	Study on the structure and properties of coreâ€“shell Fe/Al composite powder synthesized by MOCVD in fluidized bed. Advanced Powder Technology, 2014, 25, 676-681.	4.1	10
87	A comparative study of microstructures on the photoelectric properties of tungsten trioxide films with plate-like arrays. Applied Surface Science, 2014, 297, 116-124.	6.1	23
88	Selectively enhanced UV and NIR photoluminescence from a degenerate ZnO nanorod array film. Journal of Materials Chemistry C, 2014, 2, 4566.	5.5	104
89	Anti-aging properties of the Cu/LDPE composite for intrauterine contraceptive devices. Composites Science and Technology, 2014, 90, 139-146.	7.8	9
90	An efficient method to modulate the structure, morphology and properties of WO3 through niobium doping. Journal of Alloys and Compounds, 2014, 610, 132-137.	5.5	30

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91	Synthesis and characterization of NiO/TiO2 porous films and their photocurrent-enhanced mechanism in gas phase. Journal of Alloys and Compounds, 2014, 584, 356-362.	5.5	5
92	Temperatureâ€•and Atmosphereâ€Dependent Defect Chemistry Model of <scp><scp>SnO</scp></scp>₂ Nanocrystalline Film. Journal of the American Ceramic Society, 2014, 97, 2091-2098.	3.8	9
93	The coupled effect of oxygen vacancies and Pt on the photoelectric response of tungsten trioxide films. Journal of Materials Chemistry C, 2014, 2, 9467-9477.	5.5	35
94	The atomic origin of high catalytic activity of ZnO nanotetrapods for decomposition of ammonium perchlorate. CrystEngComm, 2014, 16, 570-574.	2.6	43
95	Fabrication of TiO2rod in tube nanostructure with enhanced photocatalytic activity: investigation of the effect of the states of the precursor on morphology. RSC Advances, 2014, 4, 36708.	3.6	8
96	Defect Chemistry of the Metal Cation Defects in the p- and n-Doped SnO2 Nanocrystalline Films. Journal of Physical Chemistry C, 2014, 118, 18097-18109.	3.1	49
97	Mechanistic Insights into Formation of SnO₂ Nanotubes: Asynchronous Decomposition of Poly(vinylpyrrolidone) in Electrospun Fibers during Calcining Process. Langmuir, 2014, 30, 11183-11189.	3.5	53
98	Correlation between microstructure and gas sensing properties of hierarchical porous tin oxide topologically synthesized on coplanar sensorsâ€™ surface. Sensors and Actuators B: Chemical, 2014, 205, 416-425.	7.8	20
99	Temperature-Programmed Technique Accompanied with High-Throughput Methodology for Rapidly Searching the Optimal Operating Temperature of MOX Gas Sensors. ACS Combinatorial Science, 2014, 16, 459-465.	3.8	11
100	Synthesis of a novel N H TiO 2 photocatalyst by annealing in NH 3 and H 2 for complete decomposition of high concentration benzene under visible light irradiation. Materials Letters, 2014, 136, 258-261.	2.6	10
101	A novel approach to fabricate metal oxide nanowire-like networks based coplanar gas sensors array for enhanced selectivity. Sensors and Actuators B: Chemical, 2014, 204, 351-359.	7.8	38
102	2-Methyl-2,4-pentanediol gas sensor properties of nano-SnO2 flat-type coplanar gas sensing arrays at low detection limit. Materials Science-Poland, 2014, 32, 181-187.	1.0	1
103	Controlled surface modification of various substrates with SnO₂nanoparticles. CrystEngComm, 2014, 16, 139-143.	2.6	5
104	Catalytic oxidation of formaldehyde on surface of HTiO2/HCTiO2 without light illumination at room temperature. Applied Catalysis B: Environmental, 2014, 147, 490-498.	20.2	106
105	ZnO Micro/Nanocrystals with Tunable Exposed (0001) Facets for Enhanced Catalytic Activity on the Thermal Decomposition of Ammonium Perchlorate. Journal of Physical Chemistry C, 2014, 118, 11833-11841.	3.1	95
106	Mg-doped SiO2 porous coating with high anti-reflection in the visible spectrum. Materials Letters, 2014, 132, 214-217.	2.6	1
107	The influence of Au and Pt electrodes on the stability of TiO2 under UV light activation for sensing formaldehyde in moisture circumstances. Sensors and Actuators B: Chemical, 2014, 199, 15-21.	7.8	17
108	Al-doping induced formation of oxygen-vacancy for enhancing gas-sensing properties of SnO2 NTs by electrospinning. Sensors and Actuators B: Chemical, 2014, 198, 62-69.	7.8	107

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109	Highly photoactive sensor based on NiO modified TiO2 porous film for diethyl ether. Sensors and Actuators B: Chemical, 2014, 195, 439-445.	7.8	31
110	Comparative study of ZnO nanorod array and nanoparticle film in photoelectric response and charge storage. Journal of Alloys and Compounds, 2014, 585, 267-276.	5.5	33
111	Hierarchical porous SnO2 micro-rods topologically transferred from tin oxalate for fast response sensors to trace formaldehyde. Sensors and Actuators B: Chemical, 2014, 190, 585-592.	7.8	87
112	UV light activation of TiO2 for sensing formaldehyde: How to be sensitive, recovering fast, and humidity less sensitive. Sensors and Actuators B: Chemical, 2014, 202, 964-970.	7.8	75
113	Quantitative Detection of Molds Counts in Cigarette Cut Tobacco at Early Stages by an Electronic Nose. Sensor Letters, 2014, 12, 56-63.	0.4	2
114	Extraordinarily enhanced gas phase photoelectric response of CdS/TiO2 nanocomposite photoelectrode: CdS as a sensitizer and a hole capturer. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	3
115	Laser cladding of Zr-based coating on AZ91D magnesium alloy for improvement of wear and corrosion resistance. Bulletin of Materials Science, 2013, 36, 99-105.	1.7	18
116	Preparation and gas-sensing property of parallel-aligned ZnO nanofibrous films. Bulletin of Materials Science, 2013, 36, 505-511.	1.7	5
117	Preparation and photocatalytic activity of TiO2/CeO2/Bi2O3 composite for Rhodamine B degradation under visible light irradiation. Journal of Alloys and Compounds, 2013, 581, 385-391.	5.5	31
118	Full mineralization of toluene by photocatalytic degradation with porous TiO2/SiC nanocomposite film. Journal of Alloys and Compounds, 2013, 552, 504-510.	5.5	55
119	CdS/ZnO nanocomposite film and its enhanced photoelectric response to UV and visible lights at low bias. Sensors and Actuators B: Chemical, 2013, 188, 1158-1166.	7.8	37
120	Pore-size-dependent sensing property of hierarchical SnO2 mesoporous microfibers as formaldehyde sensors. Sensors and Actuators B: Chemical, 2013, 186, 640-647.	7.8	64
121	Influence of pore morphology on the mechanical properties of Cu/LDPE porous composites for intrauterine devices. Materials Letters, 2013, 93, 275-277.	2.6	3
122	Synthesis of Al/Fe3Al coreâ€“shell intermetallic nanoparticles by chemical liquid deposition method. Advanced Powder Technology, 2013, 24, 926-931.	4.1	9
123	Characterization of Incidental Photon-to-electron Conversion Efficiency (IPCE) of porous TiO2/SnO2 composite film. Journal of Alloys and Compounds, 2013, 569, 88-94.	5.5	29
124	An In2O3 nanowire-like network fabricated on coplanar sensor surface by sacrificial CNTs for enhanced gas sensing performance. Sensors and Actuators B: Chemical, 2013, 185, 345-353.	7.8	46
125	Enhancement of photocatalytic property of ZnO for gaseous formaldehyde degradation by modifying morphology and crystal defect. Journal of Alloys and Compounds, 2013, 550, 190-197.	5.5	51
126	Conduction model of coupled domination by bias and neck for porous films as gas sensor. Sensors and Actuators B: Chemical, 2013, 176, 217-224.	7.8	12

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127	In situ diffuse reflectance infrared Fourier transform spectroscopy study of formaldehyde adsorption and reactions on nano Î³-Fe2O3 films. Applied Surface Science, 2013, 270, 405-410.	6.1	35
128	La2O3-sensitized SnO2 nanocrystalline porous film gas sensors and sensing mechanism toward formaldehyde. Sensors and Actuators B: Chemical, 2013, 188, 137-146.	7.8	70
129	Preparation and cupric ion release behavior of Cu/LDPE porous composites with tunable pore morphology for intrauterine devices. Materials Science and Engineering C, 2013, 33, 2800-2807.	7.3	3
130	Processingâ€“microstructureâ€“property correlations of gas sensors based on ZnO nanotetrapods. Sensors and Actuators B: Chemical, 2013, 181, 509-517.	7.8	28
131	Chitosan/alginate multilayer film for controlled release of IDM on Cu/LDPE composite intrauterine devices. Colloids and Surfaces B: Biointerfaces, 2013, 109, 82-89.	5.0	19
132	Specially environmental responses induced by multi-field coupling for nanocrystalline SnO2 porous film as gas sensor. Sensors and Actuators B: Chemical, 2013, 182, 239-249.	7.8	8
133	Enhanced Photocatalytic Activity of Chemically Bonded TiO₂/Graphene Composites Based on the Effective Interfacial Charge Transfer through the Câ€“Ti Bond. ACS Catalysis, 2013, 3, 1477-1485.	11.2	461
134	A low temperature gas sensor based on Pd-functionalized mesoporous SnO2 fibers for detecting trace formaldehyde. RSC Advances, 2013, 3, 11823.	3.6	63
135	A full-sunlight-driven photocatalyst with super long-persistent energy storage ability. Scientific Reports, 2013, 3, 2409.	3.3	86
136	Nanoscale SnO₂ Flat-Type Coplanar Hexanal Gas Sensor Arrays at ppb Level. Journal of Nanoscience and Nanotechnology, 2013, 13, 4370-4374.	0.9	8
137	Characteristics of Al-doped ZnO thin films prepared in Arâ€‰+â€‰H2 atmosphere and their vacuum annealing behavior. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, .	2.1	11
138	In Situ Diffuse Reflectance Fourier Transform Infrared Spectroscopy (DRIFTS) Study of Formaldehyde Adsorption and Reactions on Pd-Doped Nanoâ€“Î³-Fe₂O₃ Films. Applied Spectroscopy, 2013, 67, 930-939.	2.2	8
139	Biological Evaluation of the Copper/Low-density Polyethylene Nanocomposite Intrauterine Device. PLoS ONE, 2013, 8, e74128.	2.5	10
140	Fabrication and Hexanal Gas Sensing Property of Nano-SnO2 Flat-type Coplanar Gas Sensor Arrays at Ppb Level. Current Nanoscience, 2013, 9, 357-362.	1.2	7
141	Room temperature formaldehyde sensors with enhanced performance, fast response and recovery based on zinc oxide quantum dots/graphene nanocomposites. Nanoscale, 2012, 4, 5651.	5.6	223
142	High Sensitivity and Selectivity of C-Doped ${m WO}_{3}$ Gas Sensors Toward Toluene and Xylene. IEEE Sensors Journal, 2012, 12, 2209-2214.	4.7	45
143	High Photoconductive Response of Gas-Sensitized Porous Nanocrystalline TiO₂ Film in Formaldehyde Ambience and Carrier Transport Kinetics. Journal of Physical Chemistry C, 2012, 116, 19673-19681.	3.1	18
144	New insights into the relationship between photocatalytic activity and photocurrent of TiO2/WO3 nanocomposite. Applied Catalysis A: General, 2012, 433-434, 81-87.	4.3	82

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145	MOX (M=Zn, Co, Fe)/AP shellâ€“core nanocomposites for self-catalytical decomposition of ammonium perchlorate. Journal of Alloys and Compounds, 2012, 513, 213-219.	5.5	61
146	A study of photocurrent spectrum of porous ZnO film sensitized by metal chloride solutions. Applied Surface Science, 2012, 263, 465-470.	6.1	7
147	Reaction characteristics of nano-aluminum and water by in-situ investigation. Materials Chemistry and Physics, 2012, 136, 466-471.	4.0	8
148	Chemically bonded graphene/BiOCl nanocomposites as high-performance photocatalysts. Physical Chemistry Chemical Physics, 2012, 14, 10572.	2.8	129
149	Preparation of Fe/Al Composites with Enhanced Thermal Properties by Chemical Liquid Deposition Methods. Propellants, Explosives, Pyrotechnics, 2012, 37, 597-604.	1.6	7
150	Solution-Processed Gas Sensors Based on ZnO Nanorods Array with an Exposed (0001) Facet for Enhanced Gas-Sensing Properties. Journal of Physical Chemistry C, 2012, 116, 10586-10591.	3.1	200
151	Influence of Dopants on Electrical Properties of ZnO-V2O5 Varistors Deduced from AC Impedance and Variable-Temperature Dielectric Spectroscopy. Journal of Electronic Materials, 2012, 41, 1970-1977.	2.2	16
152	A porous Cu/LDPE composite for copper-containing intrauterine contraceptive devices. Acta Biomaterialia, 2012, 8, 897-903.	8.3	20
153	Effect of Zinc Doping on Microstructures and Gasâ€Sensing Properties of <scp><scp>SnO₂</scp></scp> Nanocrystals. Journal of the American Ceramic Society, 2012, 95, 436-442.	3.8	27
154	A comparative study on UV light activated porous TiO2 and ZnO film sensors for gas sensing at room temperature. Ceramics International, 2012, 38, 503-509.	4.8	134
155	Comparison on photocatalytic degradation of gaseous formaldehyde by TiO2, ZnO and their composite. Ceramics International, 2012, 38, 4437-4444.	4.8	73
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