

# Changsheng Xie

## List of Publications by Year in descending order

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262  
papers

11,608  
citations

27035

58  
h-index

45040

94  
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262  
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262  
docs citations

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times ranked

15212  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exposed Mo atoms induced by micropores enhanced H <sub>2</sub> S sensing of MoO <sub>3</sub> nanoflowers. Journal of Hazardous Materials, 2022, 429, 128270.	6.5	22
2	Active W Sites Promoted by Defect Engineering Enhanced C <sub>2</sub> H <sub>6</sub> S <sub>3</sub> Sensing Performance of WO <sub>3</sub> Nanosheets. ACS Sensors, 2022, 7, 1894-1902.	4.0	13
3	Inhomogeneous oxidation of ultrathin SnS <sub>2</sub> nanoflowers and its effect on low-temperature NO <sub>2</sub> gas sensing. Applied Surface Science, 2022, 601, 154213.	3.1	5
4	Two-Dimensional Mesoporous WO <sub>3</sub> Nanosheets for Detection of Dimethyl Trisulfide. IEEE Sensors Journal, 2021, , 1-1.	2.4	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.	3.5	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.	1.5	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.	4.0	18
10	Intelligent Prediction of Flash Lifetime via Online Domain Adaptation. , 2021, , .		1
11	Highly sensitive and ultralow detection limit of room-temperature NO <sub>2</sub> sensors using in-situ growth of PPy on mesoporous NiO nanosheets. Organic Electronics, 2020, 77, 105504.	1.4	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.	4.0	47
13	BeLDPC: Bit Errors Aware Adaptive Rate LDPC Codes for 3D TLC NAND Flash Memory. , 2020, , .		9
14	Mechanistic study of N <sup>-</sup> H- and H <sup>-</sup> N-codoping of a TiO <sub>2</sub> photocatalyst for efficient degradation of benzene under visible light. RSC Advances, 2020, 10, 2757-2766.	1.7	10
15	Synthesis of core-shell flower-like WO <sub>3</sub> @ZIF-71 with enhanced response and selectivity to H <sub>2</sub> S gas. Solid State Ionics, 2020, 350, 115278.	1.3	27
16	Molecular sieving property adjusted by the encapsulation of Ag nanoparticles into ZnO@ZIF-71 nanorod arrays. Chemical Communications, 2019, 55, 11045-11048.	2.2	7
17	A facile low-temperature synthesis of hierarchical porous Co <sub>3</sub> O <sub>4</sub> micro/nano structures derived from ZIF-67 assisted by ammonium perchlorate. Inorganic Chemistry Frontiers, 2019, 6, 715-722.	3.0	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.	4.0	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 WS <sub>2</sub> nanosheets. Applied Surface Science, 2019, 485, 22-28.	3.1	11
20	Gas Adsorption at Metal Sites for Enhancing Gas Sensing Performance of ZnO@ZIF-71 Nanorod Arrays. Langmuir, 2019, 35, 3248-3255.	1.6	40
21	Effect of Heterointerface on NO <sub>2</sub> Sensing Properties of In-Situ Formed TiO <sub>2</sub> QDs-Decorated NiO Nanosheets. Nanomaterials, 2019, 9, 1628.	1.9	8
22	Structure evolution from Prussian-blue nanocubes to hollow nanocage composites via sodium tungstate etching. Chemical Communications, 2019, 55, 13386-13389.	2.2	13
23	Multilevel Microstructured Flexible Pressure Sensors with Ultrahigh Sensitivity and Ultrawide Pressure Range for Versatile Electronic Skins. Small, 2019, 15, e1804559.	5.2	163
24	Enhanced room-temperature NH <sub>3</sub> gas sensing by 2D SnS <sub>2</sub> with sulfur vacancies synthesized by chemical exfoliation. Sensors and Actuators B: Chemical, 2018, 262, 771-779.	4.0	140
25	Pore size dependent gas-sensing selectivity based on ZnO@ZIF nanorod arrays. Sensors and Actuators B: Chemical, 2018, 258, 1099-1106.	4.0	134
26	CuInS <sub>2</sub> QDs decorated ring-like NiO for significantly enhanced room-temperature NO <sub>2</sub> sensing performances via effective interfacial charge transfer. Sensors and Actuators B: Chemical, 2018, 256, 1001-1010.	4.0	18
27	Preparing high-adhesion silver coating on APTMS modified polyethylene with excellent anti-bacterial performance. Applied Surface Science, 2018, 436, 117-124.	3.1	21
28	Metal-Organic Framework-Assisted Construction of TiO <sub>2</sub> /Co <sub>3</sub> O <sub>4</sub> Highly Ordered Necklace-like Heterostructures for Enhanced Ethanol Vapor Sensing Performance. Langmuir, 2018, 34, 14577-14585.	1.6	42
29	Red Phosphorus: An Elementary Semiconductor for Room-Temperature NO <sub>2</sub> Gas Sensing. ACS Sensors, 2018, 3, 2629-2636.	4.0	19
30	A Low-Cost Polyaniline@Textile-Based Multifunctional Sensor for Simultaneously Detecting Tactile and Olfactory Stimuli. Macromolecular Materials and Engineering, 2018, 303, 1800340.	1.7	16
31	Tuning the Particle Size of Prussian Blue by a Dual Anion Source Method. Crystal Growth and Design, 2018, 18, 5780-5789.	1.4	18
32	Two-dimensional WS <sub>2</sub> -based nanosheets modified by Pt quantum dots for enhanced room-temperature NH <sub>3</sub> sensing properties. Applied Surface Science, 2018, 455, 45-52.	3.1	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.	1.7	11
34	Metal-oxide-semiconductor based gas sensors: screening, preparation, and integration. Physical Chemistry Chemical Physics, 2017, 19, 6313-6329.	1.3	400
35	Effect of layer number on recovery rate of WS <sub>2</sub> nanosheets for ammonia detection at room temperature. Applied Surface Science, 2017, 414, 244-250.	3.1	107
36	A novel exposed facet dependent topological transformation mechanism from hydrozincite microspheres into hierarchical mesoporous ZnO structures. Materials Letters, 2017, 202, 142-145.	1.3	5

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37	Highly responsive chemical sensing on NO <sub>2</sub> at room temperature based on reduced porous graphene. <i>Materials Letters</i> , 2017, 204, 27-30.	1.3	12
38	Temperature & light modulation to enhance the selectivity of Pt-modified zinc oxide gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 903-915.	4.0	41
39	Enhancing room-temperature NO <sub>2</sub> sensing properties via forming heterojunction for NiO-rGO composited with SnO <sub>2</sub> nanoplates. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 1010-1019.	4.0	78
40	Origin of the efficient catalytic thermal decomposition of ammonium perchlorate over (2 $\times$ 1 $\times$ 10) facets of ZnO nanosheets: surface lattice oxygen. <i>RSC Advances</i> , 2017, 7, 40262-40269.	1.7	18
41	2D WS <sub>2</sub> nanosheets with TiO <sub>2</sub> quantum dots decoration for high-performance ammonia gas sensing at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 1034-1042.	4.0	128
42	Enhanced visible-light photocatalytic performance of highly-dispersed Pt/g-C <sub>3</sub> N <sub>4</sub> nanocomposites by one-step solvothermal treatment. <i>RSC Advances</i> , 2017, 7, 33552-33557.	1.7	36
43	Porous LaFeO <sub>3</sub> /SnO <sub>2</sub> nanocomposite film for CO <sub>2</sub> detection with high sensitivity. <i>Materials Chemistry and Physics</i> , 2017, 186, 228-236.	2.0	45
44	BiOCl/TiO <sub>2</sub> heterojunction network with high energy facet exposed for highly efficient photocatalytic degradation of benzene. <i>Applied Surface Science</i> , 2017, 396, 590-598.	3.1	50
45	In situ synthesis of C-TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction nanocomposite as highly visible light active photocatalyst originated from effective interfacial charge transfer. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 489-499.	10.8	262
46	Fast identification of CO by using single Pt-modified WO <sub>3</sub> sensing film based on optical modulation. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 506-513.	4.0	19
47	Charge separation in branched TiO <sub>2</sub> nanorod array homojunction aroused by quantum effect for enhanced photocatalytic decomposition of gaseous benzene. <i>Applied Surface Science</i> , 2016, 389, 165-172.	3.1	29
48	The irreversible R-T curves of metal oxide gas sensor under programmed temperature cycle. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 481-491.	4.0	22
49	Facile synthesis of diverse graphene nanomeshes based on simultaneous regulation of pore size and surface structure. <i>Scientific Reports</i> , 2016, 6, 32310.	1.6	23
50	A method for modeling and deciphering the persistent photoconductance and long-term charge storage of ZnO nanorod arrays. <i>Nano Research</i> , 2016, 9, 2972-3002.	5.8	21
51	Enhanced room temperature NO <sub>2</sub> response of NiO@SnO <sub>2</sub> nanocomposites induced by interface bonds at the p-n heterojunction. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5386-5396.	1.3	47
52	The microstructure, stoichiometric ratio and room temperature ferromagnetic properties of V-doped ZnO films deposited at different substrate temperatures. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 163-170.	1.1	3
53	A modular calcination method to prepare modified N-doped TiO <sub>2</sub> nanoparticle with high photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2016, 183, 308-316.	10.8	116
54	Effect of Nickel Vacancies on the Room-Temperature NO <sub>2</sub> Sensing Properties of Mesoporous NiO Nanosheets. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3936-3945.	1.5	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.	1.0	1
56	Sensing Home: A Cost-Effective Design for Smart Home via Heterogeneous Wireless Networks. Sensors, 2015, 15, 30270-30292.	2.1	16
57	Temperature-dependent photothermocatalytic mineralization of gaseous benzene based on rutile TiO <sub>2</sub> nanorod array. Materials Letters, 2015, 139, 336-339.	1.3	6
58	A Novel Kind of Green Solid Propellant Containing H <sub>2</sub> O <sub>2</sub> Cured at Room Temperature (SPHP). Propellants, Explosives, Pyrotechnics, 2015, 40, 772-778.	1.0	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.	1.5	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.	3.1	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.	1.1	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.	4.0	47
63	Effect of Grain-Boundaries in NiO Nanosheet Layers Room-Temperature Sensing Mechanism under NO <sub>2</sub> . Journal of Physical Chemistry C, 2015, 119, 17930-17939.	1.5	60
64	Graphene-wrapped WO <sub>3</sub> nanospheres with room-temperature NO <sub>2</sub> sensing induced by interface charge transfer. Sensors and Actuators B: Chemical, 2015, 220, 201-209.	4.0	91
65	Interface Bonds Determined Gas-Sensing of SnO <sub>2</sub> –SnS <sub>2</sub> Hybrids to Ammonia at Room Temperature. ACS Applied Materials & Interfaces, 2015, 7, 11359-11368.	4.0	191
66	CdS/TiO <sub>2</sub> 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.	2.8	37
67	Room temperature NO <sub>2</sub> sensing: what advantage does the rGO@NiO nanocomposite have over pristine NiO?. Physical Chemistry Chemical Physics, 2015, 17, 14903-14911.	1.3	59
68	Through-Process Analytical Modeling of Photoconductance Spectrum for Porous ZnO Nanocrystalline Film. Chemistry of Materials, 2015, 27, 2861-2874.	3.2	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.	1.3	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.	1.3	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.	1.3	6
72	Competitive influence of surface area and mesopore size on gas-sensing properties of SnO <sub>2</sub> hollow fibers. Journal of Materials Science, 2015, 50, 7725-7734.	1.7	15

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73	Optimizing the packing density of TiO <sub>2</sub> nanorod arrays for enhanced light harvesting by a light trapping effect and its photocatalytic decomposition of gaseous benzene. CrystEngComm, 2015, 17, 1151-1158.	1.3	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.	10.8	16
75	A novel method in the gas identification by using WO <sub>3</sub> gas sensor based on the temperature-programmed technique. Sensors and Actuators B: Chemical, 2015, 206, 220-229.	4.0	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.	3.3	8
77	A novel planar integration of all-solid-state capacitor and photodetector by an ultra-thin transparent sulfated TiO <sub>2</sub> film. Nano Energy, 2014, 9, 252-263.	8.2	20
78	Fabrication of porous TiO <sub>2</sub> /SiO <sub>2</sub> multifunctional anti-reflection coatings by sol-gel spin coating method. RSC Advances, 2014, 4, 58101-58107.	1.7	17
79	Comparative study on the visible light driven photocatalytic activity between substitutional nitrogen doped and interstitial nitrogen doped TiO <sub>2</sub> . Applied Catalysis A: General, 2014, 488, 239-247.	2.2	34
80	Gas-sensing properties and in situ diffuse reflectance infrared Fourier transform spectroscopy study of formaldehyde adsorption and reactions on SnO <sub>2</sub> films. Journal of Materials Research, 2014, 29, 139-147.	1.2	8
81	Tin oxide thick film by doping rare earth for detecting traces of CO <sub>2</sub> : Operating in oxygen-free atmosphere. Materials Research Bulletin, 2014, 52, 56-64.	2.7	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.	4.0	8
83	Direct experimental evidence for SbZn <sup>2+</sup> complex as the important defect in the Sb-doped ZnO nanocrystals. Materials Letters, 2014, 116, 363-366.	1.3	17
84	Enhanced response to NO <sub>2</sub> with CuO/ZnO laminated heterostructured configuration. Sensors and Actuators B: Chemical, 2014, 195, 500-508.	4.0	33
85	Gas sensing properties and in situ diffuse reflectance infrared Fourier transform spectroscopy study of trichloroethylene adsorption and reactions on SnO <sub>2</sub> films. Applied Surface Science, 2014, 300, 98-103.	3.1	10
86	Study on the structure and properties of core-shell Fe/Al composite powder synthesized by MOCVD in fluidized bed. Advanced Powder Technology, 2014, 25, 676-681.	2.0	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.	3.1	23
88	Selectively enhanced UV and NIR photoluminescence from a degenerate ZnO nanorod array film. Journal of Materials Chemistry C, 2014, 2, 4566.	2.7	104
89	Anti-aging properties of the Cu/LDPE composite for intrauterine contraceptive devices. Composites Science and Technology, 2014, 90, 139-146.	3.8	9
90	An efficient method to modulate the structure, morphology and properties of WO <sub>3</sub> through niobium doping. Journal of Alloys and Compounds, 2014, 610, 132-137.	2.8	30

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91	Synthesis and characterization of NiO/TiO <sub>2</sub> porous films and their photocurrent-enhanced mechanism in gas phase. <i>Journal of Alloys and Compounds</i> , 2014, 584, 356-362.	2.8	5
92	Temperature- and Atmosphere-Dependent Defect Chemistry Model of SnO <sub>2</sub> Nanocrystalline Film. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2091-2098.	1.9	9
93	The coupled effect of oxygen vacancies and Pt on the photoelectric response of tungsten trioxide films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9467-9477.	2.7	35
94	The atomic origin of high catalytic activity of ZnO nanotetrapods for decomposition of ammonium perchlorate. <i>CrystEngComm</i> , 2014, 16, 570-574.	1.3	43
95	Fabrication of TiO <sub>2</sub> rod in tube nanostructure with enhanced photocatalytic activity: investigation of the effect of the states of the precursor on morphology. <i>RSC Advances</i> , 2014, 4, 36708.	1.7	8
96	Defect Chemistry of the Metal Cation Defects in the p- and n-Doped SnO <sub>2</sub> Nanocrystalline Films. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18097-18109.	1.5	49
97	Mechanistic Insights into Formation of SnO <sub>2</sub> Nanotubes: Asynchronous Decomposition of Poly(vinylpyrrolidone) in Electrospun Fibers during Calcining Process. <i>Langmuir</i> , 2014, 30, 11183-11189.	1.6	53
98	Correlation between microstructure and gas sensing properties of hierarchical porous tin oxide topologically synthesized on coplanar sensors' surface. <i>Sensors and Actuators B: Chemical</i> , 2014, 205, 416-425.	4.0	20
99	Temperature-Programmed Technique Accompanied with High-Throughput Methodology for Rapidly Searching the Optimal Operating Temperature of MOX Gas Sensors. <i>ACS Combinatorial Science</i> , 2014, 16, 459-465.	3.8	11
100	Synthesis of a novel NH <sub>3</sub> /TiO <sub>2</sub> photocatalyst by annealing in NH <sub>3</sub> and H <sub>2</sub> for complete decomposition of high concentration benzene under visible light irradiation. <i>Materials Letters</i> , 2014, 136, 258-261.	1.3	10
101	A novel approach to fabricate metal oxide nanowire-like networks based coplanar gas sensors array for enhanced selectivity. <i>Sensors and Actuators B: Chemical</i> , 2014, 204, 351-359.	4.0	38
102	2-Methyl-2,4-pentanediol gas sensor properties of nano-SnO <sub>2</sub> flat-type coplanar gas sensing arrays at low detection limit. <i>Materials Science-Poland</i> , 2014, 32, 181-187.	0.4	1
103	Controlled surface modification of various substrates with SnO <sub>2</sub> nanoparticles. <i>CrystEngComm</i> , 2014, 16, 139-143.	1.3	5
104	Catalytic oxidation of formaldehyde on surface of HTiO <sub>2</sub> /HCTiO <sub>2</sub> without light illumination at room temperature. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 490-498.	10.8	106
105	ZnO Micro/Nanocrystals with Tunable Exposed (0001) Facets for Enhanced Catalytic Activity on the Thermal Decomposition of Ammonium Perchlorate. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11833-11841.	1.5	95
106	Mg-doped SiO <sub>2</sub> porous coating with high anti-reflection in the visible spectrum. <i>Materials Letters</i> , 2014, 132, 214-217.	1.3	1
107	The influence of Au and Pt electrodes on the stability of TiO <sub>2</sub> under UV light activation for sensing formaldehyde in moisture circumstances. <i>Sensors and Actuators B: Chemical</i> , 2014, 199, 15-21.	4.0	17
108	Al-doping induced formation of oxygen-vacancy for enhancing gas-sensing properties of SnO <sub>2</sub> NTs by electrospinning. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 62-69.	4.0	107

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109	Highly photoactive sensor based on NiO modified TiO <sub>2</sub> porous film for diethyl ether. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 439-445.	4.0	31
110	Comparative study of ZnO nanorod array and nanoparticle film in photoelectric response and charge storage. <i>Journal of Alloys and Compounds</i> , 2014, 585, 267-276.	2.8	33
111	Hierarchical porous SnO <sub>2</sub> micro-rods topologically transferred from tin oxalate for fast response sensors to trace formaldehyde. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 585-592.	4.0	87
112	UV light activation of TiO <sub>2</sub> for sensing formaldehyde: How to be sensitive, recovering fast, and humidity less sensitive. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 964-970.	4.0	75
113	Quantitative Detection of Molds Counts in Cigarette Cut Tobacco at Early Stages by an Electronic Nose. <i>Sensor Letters</i> , 2014, 12, 56-63.	0.4	2
114	Extraordinarily enhanced gas phase photoelectric response of CdS/TiO <sub>2</sub> nanocomposite photoelectrode: CdS as a sensitizer and a hole capturer. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	3
115	Laser cladding of Zr-based coating on AZ91D magnesium alloy for improvement of wear and corrosion resistance. <i>Bulletin of Materials Science</i> , 2013, 36, 99-105.	0.8	18
116	Preparation and gas-sensing property of parallel-aligned ZnO nanofibrous films. <i>Bulletin of Materials Science</i> , 2013, 36, 505-511.	0.8	5
117	Preparation and photocatalytic activity of TiO <sub>2</sub> /CeO <sub>2</sub> /Bi <sub>2</sub> O <sub>3</sub> composite for Rhodamine B degradation under visible light irradiation. <i>Journal of Alloys and Compounds</i> , 2013, 581, 385-391.	2.8	31
118	Full mineralization of toluene by photocatalytic degradation with porous TiO <sub>2</sub> /SiC nanocomposite film. <i>Journal of Alloys and Compounds</i> , 2013, 552, 504-510.	2.8	55
119	CdS/ZnO nanocomposite film and its enhanced photoelectric response to UV and visible lights at low bias. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 1158-1166.	4.0	37
120	Pore-size-dependent sensing property of hierarchical SnO <sub>2</sub> mesoporous microfibers as formaldehyde sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 640-647.	4.0	64
121	Influence of pore morphology on the mechanical properties of Cu/LDPE porous composites for intrauterine devices. <i>Materials Letters</i> , 2013, 93, 275-277.	1.3	3
122	Synthesis of Al/Fe <sub>3</sub> Al core-shell intermetallic nanoparticles by chemical liquid deposition method. <i>Advanced Powder Technology</i> , 2013, 24, 926-931.	2.0	9
123	Characterization of Incidental Photon-to-electron Conversion Efficiency (IPCE) of porous TiO <sub>2</sub> /SnO <sub>2</sub> composite film. <i>Journal of Alloys and Compounds</i> , 2013, 569, 88-94.	2.8	29
124	An In <sub>2</sub> O <sub>3</sub> nanowire-like network fabricated on coplanar sensor surface by sacrificial CNTs for enhanced gas sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 345-353.	4.0	46
125	Enhancement of photocatalytic property of ZnO for gaseous formaldehyde degradation by modifying morphology and crystal defect. <i>Journal of Alloys and Compounds</i> , 2013, 550, 190-197.	2.8	51
126	Conduction model of coupled domination by bias and neck for porous films as gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 217-224.	4.0	12



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127	In situ diffuse reflectance infrared Fourier transform spectroscopy study of formaldehyde adsorption and reactions on nano $\text{Fe}_2\text{O}_3$ films. <i>Applied Surface Science</i> , 2013, 270, 405-410.	3.1	35
128	La $2\text{O}_3$ -sensitized SnO $_2$ nanocrystalline porous film gas sensors and sensing mechanism toward formaldehyde. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 137-146.	4.0	70
129	Preparation and cupric ion release behavior of Cu/LDPE porous composites with tunable pore morphology for intrauterine devices. <i>Materials Science and Engineering C</i> , 2013, 33, 2800-2807.	3.8	3
130	Processing "microstructure" property correlations of gas sensors based on ZnO nanotetrapods. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 509-517.	4.0	28
131	Chitosan/alginate multilayer film for controlled release of IDM on Cu/LDPE composite intrauterine devices. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 109, 82-89.	2.5	19
132	Specially environmental responses induced by multi-field coupling for nanocrystalline SnO $_2$ porous film as gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 239-249.	4.0	8
133	Enhanced Photocatalytic Activity of Chemically Bonded TiO $_2$ /Graphene Composites Based on the Effective Interfacial Charge Transfer through the "Ti Bond. <i>ACS Catalysis</i> , 2013, 3, 1477-1485.	5.5	461
134	A low temperature gas sensor based on Pd-functionalized mesoporous SnO $_2$ fibers for detecting trace formaldehyde. <i>RSC Advances</i> , 2013, 3, 11823.	1.7	63
135	A full-sunlight-driven photocatalyst with super long-persistent energy storage ability. <i>Scientific Reports</i> , 2013, 3, 2409.	1.6	86
136	Nanoscale SnO $_2$ Flat-Type Coplanar Hexanal Gas Sensor Arrays at ppb Level. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 4370-4374.	0.9	8
137	Characteristics of Al-doped ZnO thin films prepared in Ar+H $_2$ atmosphere and their vacuum annealing behavior. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013, 31, .	0.9	11
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