

Xiaotong Jiang

List of Publications by Year in descending order

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57
papers

3,101
citations

159585

30
h-index

155660

55
g-index

57
all docs

57
docs citations

57
times ranked

4450
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative characterization of the long-term charge storage of a ZnO-based nanorod array film through persistent photoconductance. <i>RSC Advances</i> , 2018, 8, 16455-16463.	3.6	11
2	Porous LaFeO ₃ /SnO ₂ nanocomposite film for CO ₂ detection with high sensitivity. <i>Materials Chemistry and Physics</i> , 2017, 186, 228-236.	4.0	45
3	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.	10.4	21
4	Assessing multi-variable coupling effects of UV illumination, heat and oxygen on porous ZnO nanocrystalline film through electron concentration and mobility extraction. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18045-18054.	2.8	6
5	A novel method in the gas identification by using WO ₃ gas sensor based on the temperature-programmed technique. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 220-229.	7.8	29
6	Tin oxide thick film by doping rare earth for detecting traces of CO ₂ : Operating in oxygen-free atmosphere. <i>Materials Research Bulletin</i> , 2014, 52, 56-64.	5.2	19
7	A comparative study of microstructures on the photoelectric properties of tungsten trioxide films with plate-like arrays. <i>Applied Surface Science</i> , 2014, 297, 116-124.	6.1	23
8	Selectively enhanced UV and NIR photoluminescence from a degenerate ZnO nanorod array film. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4566.	5.5	104
9	An efficient method to modulate the structure, morphology and properties of WO ₃ through niobium doping. <i>Journal of Alloys and Compounds</i> , 2014, 610, 132-137.	5.5	30
10	Temperature- and Atmosphere-Dependent Defect Chemistry Model of SnO ₂ Nanocrystalline Film. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2091-2098.	3.8	9
11	Highly photoactive sensor based on NiO modified TiO ₂ porous film for diethyl ether. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 439-445.	7.8	31
12	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.	5.5	33
13	Extraordinarily enhanced gas phase photoelectric response of CdS/TiO ₂ nanocomposite photoelectrode: CdS as a sensitizer and a hole capturer. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	3
14	Preparation and photocatalytic activity of TiO ₂ /CeO ₂ /Bi ₂ O ₃ composite for Rhodamine B degradation under visible light irradiation. <i>Journal of Alloys and Compounds</i> , 2013, 581, 385-391.	5.5	31
15	Full mineralization of toluene by photocatalytic degradation with porous TiO ₂ /SiC nanocomposite film. <i>Journal of Alloys and Compounds</i> , 2013, 552, 504-510.	5.5	55
16	Characterization of Incidental Photon-to-electron Conversion Efficiency (IPCE) of porous TiO ₂ /SnO ₂ composite film. <i>Journal of Alloys and Compounds</i> , 2013, 569, 88-94.	5.5	29
17	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.	5.5	51
18	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.	7.8	12

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19	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.	5.0	19
20	A comparative study on UV light activated porous TiO ₂ and ZnO film sensors for gas sensing at room temperature. <i>Ceramics International</i> , 2012, 38, 503-509.	4.8	134
21	Comparison on photocatalytic degradation of gaseous formaldehyde by TiO ₂ , ZnO and their composite. <i>Ceramics International</i> , 2012, 38, 4437-4444.	4.8	73
22	Improvement of gaseous pollutant photocatalysis with WO ₃ /TiO ₂ heterojunctional-electrical layered system. <i>Journal of Hazardous Materials</i> , 2011, 196, 52-58.	12.4	49
23	Applied low bias with high frequency for enhancing mineralization ability of WO ₃ as visible-light-driven photocatalyst in gas phase. <i>Catalysis Communications</i> , 2011, 16, 180-183.	3.3	11
24	Microwave sintering of ZnO nanopowders and characterization for gas sensing. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 181-186.	3.5	7
25	Nanostructural ZnO based coplanar gas sensor arrays from the injection of metal chloride solutions: Device processing, gas-sensing properties and selectivity in liquors applications. <i>Sensors and Actuators B: Chemical</i> , 2011, 153, 415-420.	7.8	22
26	Synthesis, formation mechanism and sensing properties of WO ₃ hydrate nanowire netted-spheres. <i>Materials Research Bulletin</i> , 2010, 45, 1541-1547.	5.2	41
27	Fabrication and formaldehyde gas-sensing property of ZnO/MnO ₂ coplanar gas sensor arrays. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 457-463.	7.8	122
28	Synthesis, formation mechanism and illuminated sensing properties of 3D WO ₃ nanowall. <i>Journal of Alloys and Compounds</i> , 2010, 495, 88-92.	5.5	41
29	Spoiling and formaldehyde-containing detections in octopus with an E-nose. <i>Food Chemistry</i> , 2009, 113, 1346-1350.	8.2	38
30	A reaction model of metal oxide gas sensors and a recognition method by pattern matching. <i>Sensors and Actuators B: Chemical</i> , 2009, 135, 552-559.	7.8	9
31	IDM release behavior and surface characteristics of the novel Cu/IDM/LDPE nanocomposite for intrauterine device. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 69, 276-280.	5.0	9
32	“Sensory analysis”™ of Chinese vinegars using an electronic nose. <i>Sensors and Actuators B: Chemical</i> , 2008, 128, 586-593.	7.8	59
33	Zn ²⁺ release behavior and surface characteristics of Zn/LDPE nanocomposites and ZnO/LDPE nanocomposites in simulated uterine solution. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 3319-3326.	3.6	17
34	The effects of oxygen partial pressure on the microstructures and photocatalytic property of ZnO nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2724-2729.	2.7	57
35	Formaldehyde sensor based on Ni-doped tetrapod-shaped ZnO nanopowder induced by external magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 41, 235-239.	2.7	41
36	An entire feature extraction method of metal oxide gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 81-89.	7.8	52

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37	Cupric ion release controlled by copper/low-density polyethylene nanocomposite in simulated uterine solution. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 80B, 220-225.	3.4	16
38	Electrochemical study of the corrosion behaviour of copper/low-density polyethylene microcomposite in the simulated uterine solution. <i>Journal of Electroanalytical Chemistry</i> , 2007, 603, 219-226.	3.8	2
39	Comparison of dye degradation efficiency using ZnO powders with various size scales. <i>Journal of Hazardous Materials</i> , 2007, 141, 645-652.	12.4	339
40	Formaldehyde, Benzene, and Xylene Sensing Characterizations of ZnO Nanocomposite Ceramics. <i>Journal of the American Ceramic Society</i> , 2007, 90, 3263-3267.	3.8	46
41	An alternate method of hierarchical classification for E-nose: Combined Fisher discriminant analysis and modified Sammon mapping. <i>Sensors and Actuators B: Chemical</i> , 2007, 127, 399-405.	7.8	13
42	Preparation and gas-sensing properties of Ce-doped ZnO thin-film sensors by dip-coating. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 137, 53-58.	3.5	229
43	Characterization of Chinese vinegars by electronic nose. <i>Sensors and Actuators B: Chemical</i> , 2006, 119, 538-546.	7.8	99
44	Corrosion characteristics of copper microparticles and copper nanoparticles in distilled water. <i>Corrosion Science</i> , 2006, 48, 3924-3932.	6.6	86
45	Novel 1-3 metal nanoparticle/polymer composites induced by hybrid external fields. <i>Composites Science and Technology</i> , 2006, 66, 1558-1563.	7.8	25
46	Electrochemical behaviour of copper/LDPE composites in the simulated uterine solution. <i>Electrochimica Acta</i> , 2006, 51, 5606-5611.	5.2	10
47	Effect of the loading and size of copper particles on the mechanical properties of novel Cu/LDPE composites for use in intrauterine devices. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 429, 329-333.	5.6	20
48	Laser grooving of Al ₂ O ₃ plate by a pulsed Nd:YAG laser: Characteristics and application to the manufacture of gas sensors array heater. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 435-436, 418-424.	5.6	9
49	Controlled organization of ZnO building blocks into complex nanostructures. <i>Journal of Colloid and Interface Science</i> , 2006, 297, 570-577.	9.4	45
50	Synthesis and characterization of ZnO nanostructures by two-step oxidation of Zn nano- and microparticles. <i>Journal of Crystal Growth</i> , 2006, 289, 663-669.	1.5	33
51	Preparation, structure and thermal stability of Cu/LDPE nanocomposites. <i>Materials Chemistry and Physics</i> , 2006, 95, 122-129.	4.0	82
52	Water absorption characteristics of novel Cu/LDPE nanocomposite for use in intrauterine devices. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 79B, 345-352.	3.4	13
53	Non-isothermal crystallization behavior of low-density polyethylene/copper nanocomposites. <i>Thermochimica Acta</i> , 2005, 427, 129-135.	2.7	40
54	A novel simplified method for preparing ZnO nanoneedles via H ₂ O ₂ pre-oxidation. <i>Materials Chemistry and Physics</i> , 2005, 93, 539-543.	4.0	9

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55	Identification and pattern recognition analysis of Chinese liquors by doped nano ZnO gas sensor array. <i>Sensors and Actuators B: Chemical</i> , 2005, 110, 370-376.	7.8	109
56	Specific role of polysorbate 80 coating on the targeting of nanoparticles to the brain. <i>Biomaterials</i> , 2004, 25, 3065-3071.	11.4	181
57	The production and characteristics of solid lipid nanoparticles (SLNs). <i>Biomaterials</i> , 2003, 24, 1781-1785.	11.4	352