

Shouqin Tian

List of Publications by Year in descending order

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57
papers

2,753
citations

218381

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3969
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#	ARTICLE	IF	CITATIONS
1	Enhanced Photocatalytic Activity of Chemically Bonded TiO ₂ /Graphene Composites Based on the Effective Interfacial Charge Transfer through the Ti-O-Ti Bond. ACS Catalysis, 2013, 3, 1477-1485.	5.5	461
2	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.	1.5	200
3	Interface Bonds Determined Gas-Sensing of SnO ₂ -SnS ₂ Hybrids to Ammonia at Room Temperature. ACS Applied Materials & Interfaces, 2015, 7, 11359-11368.	4.0	191
4	Chemically bonded graphene/BiOCl nanocomposites as high-performance photocatalysts. Physical Chemistry Chemical Physics, 2012, 14, 10572.	1.3	129
5	Visible-light activate mesoporous WO ₃ sensors with enhanced formaldehyde-sensing property at room temperature. Sensors and Actuators B: Chemical, 2012, 163, 260-266.	4.0	120
6	Needle-like Zn-doped SnO ₂ nanorods with enhanced photocatalytic and gas sensing properties. Nanotechnology, 2012, 23, 105502.	1.3	98
7	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.	1.5	95
8	Hierarchical porous SnO ₂ micro-rods topologically transferred from tin oxalate for fast response sensors to trace formaldehyde. Sensors and Actuators B: Chemical, 2014, 190, 585-592.	4.0	87
9	Synthesis of defect graphene and its application for room temperature humidity sensing. Materials Letters, 2012, 83, 76-79.	1.3	68
10	High selectivity of sulfur-doped SnO ₂ in NO ₂ detection at lower operating temperatures. Nanoscale, 2018, 10, 20761-20771.	2.8	68
11	A facile low-temperature synthesis of hierarchical porous Co ₃ O ₄ micro/nano structures derived from ZIF-67 assisted by ammonium perchlorate. Inorganic Chemistry Frontiers, 2019, 6, 715-722.	3.0	68
12	Pore-size-dependent sensing property of hierarchical SnO ₂ mesoporous microfibers as formaldehyde sensors. Sensors and Actuators B: Chemical, 2013, 186, 640-647.	4.0	64
13	A low temperature gas sensor based on Pd-functionalized mesoporous SnO ₂ fibers for detecting trace formaldehyde. RSC Advances, 2013, 3, 11823.	1.7	63
14	MOX (M=Zn, Co, Fe)/AP shell-core nanocomposites for self-catalytical decomposition of ammonium perchlorate. Journal of Alloys and Compounds, 2012, 513, 213-219.	2.8	61
15	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
16	Single-crystalline porous nanosheets assembled hierarchical Co ₃ O ₄ microspheres for enhanced gas-sensing properties to trace xylene. Sensors and Actuators B: Chemical, 2017, 246, 68-77.	4.0	60
17	Exposed facet dependent stability of ZnO micro/nano crystals as a photocatalyst. Applied Surface Science, 2019, 470, 807-816.	3.1	54
18	Facile synthesis of mesoporous VO ₂ nanocrystals by a cotton-template method and their enhanced thermochromic properties. Solar Energy Materials and Solar Cells, 2018, 176, 427-434.	3.0	49

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19	An In ₂ O ₃ 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
20	Tungsten doped M-phase VO ₂ mesoporous nanocrystals with enhanced comprehensive thermochromic properties for smart windows. <i>Ceramics International</i> , 2019, 45, 4342-4350.	2.3	46
21	Deep-red emitting zinc and aluminium co-doped copper indium sulfide quantum dots for luminescent solar concentrators. <i>Journal of Colloid and Interface Science</i> , 2019, 534, 509-517.	5.0	45
22	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
23	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
24	Preparation and characterization of CuCrO ₂ /TiO ₂ heterostructure photocatalyst with enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2015, 347, 747-754.	3.1	34
25	Facile synthesis of VO ₂ (D) and its transformation to VO ₂ (M) with enhanced thermochromic properties for smart windows. <i>Ceramics International</i> , 2020, 46, 14739-14746.	2.3	31
26	Processing-structure-property correlations of gas sensors based on ZnO nanotetrapods. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 509-517.	4.0	28
27	Effect of Zinc Doping on Microstructures and Gas Sensing Properties of SnO ₂ Nanocrystals. <i>Journal of the American Ceramic Society</i> , 2012, 95, 436-442.	1.9	27
28	Hierarchical ZnO hollow microspheres with exposed (001) facets as promising catalysts for the thermal decomposition of ammonium perchlorate. <i>CrystEngComm</i> , 2015, 17, 8689-8696.	1.3	26
29	Controllable topological transformation from BiOCl hierarchical microspheres to Bi ₂ WO ₆ superstructures in the Bi-W-Cl-O system. <i>Journal of Alloys and Compounds</i> , 2015, 643, 159-166.	2.8	25
30	VO ₂ -ZnO composite films with enhanced thermochromic properties for smart windows. <i>Ceramics International</i> , 2020, 46, 2758-2763.	2.3	24
31	CsPbBr ₃ @SiO ₂ Core-Shell Nanoparticle Films for Superhydrophobic Coatings. <i>ACS Applied Nano Materials</i> , 2021, 4, 6306-6315.	2.4	23
32	Oleic acid assisted formation mechanism of CuInS ₂ nanocrystals with tunable structures. <i>RSC Advances</i> , 2014, 4, 36875-36881.	1.7	22
33	A facile one-step annealing route to prepare thermochromic W doped VO ₂ (M) particles for smart windows. <i>Ceramics International</i> , 2020, 46, 18274-18280.	2.3	22
34	VO ₂ /ZnO bilayer films with enhanced thermochromic property and durability for smart windows. <i>Applied Surface Science</i> , 2021, 540, 148414.	3.1	22
35	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
36	Thermochromic Ta Doped VO ₂ Films: Enhanced Luminous Transmittance, Significantly Depressed Phase Transition Temperature and Hysteresis Width. <i>Applied Surface Science</i> , 2021, 568, 150959.	3.1	20

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37	Fabrication and band engineering of Cu-doped CdSe _{0.6} Te _{0.4} -alloyed quantum dots for solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 157, 161-170.	3.0	18
38	Origin of the efficient catalytic thermal decomposition of ammonium perchlorate over (2 ⁿ × 1 ⁿ) facets of ZnO nanosheets: surface lattice oxygen. <i>RSC Advances</i> , 2017, 7, 40262-40269.	1.7	18
39	CuInS ₂ QDs decorated ring-like NiO for significantly enhanced room-temperature NO ₂ sensing performances via effective interfacial charge transfer. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 1001-1010.	4.0	18
40	Direct experimental evidence for SbZn ²⁺ VZn complex as the important defect in the Sb-doped ZnO nanocrystals. <i>Materials Letters</i> , 2014, 116, 363-366.	1.3	17
41	Mesoporous ZnO nanorods array with a controllable area density for enhanced photocatalytic properties. <i>Journal of Colloid and Interface Science</i> , 2019, 534, 389-398.	5.0	17
42	Facile Preparation of Zn ₂ V ₂ O ₇ VO ₂ Composite Films with Enhanced Thermochromic Properties for Smart Windows. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2224-2232.	2.0	17
43	Competitive influence of surface area and mesopore size on gas-sensing properties of SnO ₂ hollow fibers. <i>Journal of Materials Science</i> , 2015, 50, 7725-7734.	1.7	15
44	Facile synthesis of high-purity Ti ₂ SC powders by spark plasma sintering technique. <i>Ceramics International</i> , 2017, 43, 9363-9368.	2.3	15
45	Rapid synthesis of highly pure Nb ₂ AlC using the spark plasma sintering technique. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 120, 218-222.	1.9	12
46	Aluminium and zinc co-doped CuInS ₂ QDs for enhanced trion modulation in monolayer WS ₂ toward improved electrical properties. <i>Journal of Materials Chemistry C</i> , 2019, 7, 15074-15081.	2.7	12
47	An enhanced fluorescent ZIF-8 film by capturing guest molecules for light-emitting applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5819-5826.	2.7	12
48	Low-temperature solution synthesis of a ZnO nanorod array with a mesoporous surface mediated by cadmium ions. <i>CrystEngComm</i> , 2016, 18, 8277-8283.	1.3	7
49	Acid Solution Processed VO ₂ -Based Composite Films with Enhanced Thermochromic Properties for Smart Windows. <i>Materials</i> , 2021, 14, 4927.	1.3	7
50	Controlled surface modification of various substrates with SnO ₂ nanoparticles. <i>CrystEngComm</i> , 2014, 16, 139-143.	1.3	5
51	A novel exposed facet dependent topological transformation mechanism from hydrozincite microspheres into hierarchical mesoporous ZnO structures. <i>Materials Letters</i> , 2017, 202, 142-145.	1.3	5
52	Comparative study of the metal insulator transition of a VO ₂ film with simultaneous infrared thermography and electric measurements. <i>AIP Advances</i> , 2021, 11, 035026.	0.6	5
53	Facile synthesis of silica composite films with good mechanical property for spectrally broadband antireflection coatings. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 628, 127255.	2.3	4
54	Observation of the crystalline orientation dependence of the semiconductor-metal transition for thermal oxidation induced VO ₂ films over amorphous quartz glasses. <i>AIP Advances</i> , 2021, 11, 125232.	0.6	4

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55	Low-temperature synthesis of high-purity Ti ₂ AlC powder by microwave sintering. Micro and Nano Letters, 2018, 13, 798-800.	0.6	2
56	3D mesoporous structure assembled from monoclinic M-phase VO ₂ nanoflakes with enhanced thermochromic performance. RSC Advances, 2021, 11, 13556-13563.	1.7	2
57	Facile Solution Process of VO ₂ Film with Mesh Morphology for Enhanced Thermochromic Performance. Materials, 2022, 15, 4129.	1.3	2