

Zhi-Dong Lin

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,441
citations

361413

20
h-index

345221

36
g-index

60
all docs

60
docs citations

60
times ranked

1807
citing authors

#	ARTICLE	IF	CITATIONS
1	PEDOT:PSS/graphene quantum dots films with enhanced thermoelectric properties via strong interfacial interaction and phase separation. <i>Scientific Reports</i> , 2018, 8, 6441.	3.3	151
2	The effect of Ni doping concentration on the gas sensing properties of Ni doped SnO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 501-510.	7.8	142
3	Highly selective n-butanol gas sensor based on mesoporous SnO ₂ prepared with hydrothermal treatment. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 153-159.	7.8	134
4	Synthesis of hollow and hollowed-out Co ₃ O ₄ microspheres assembled by porous ultrathin nanosheets for ethanol gas sensors: Responding and recovering in one second. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 44-52.	7.8	76
5	Highly sensitive gas sensor based on coral-like SnO ₂ prepared with hydrothermal treatment. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 22-27.	7.8	58
6	Synthesis, characterization and sensing properties of mesoporous C/SnO ₂ nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2016, 228, 595-604.	7.8	46
7	Enhanced formaldehyde gas sensing properties of ZnO nanosheets modified with graphene. <i>Electronic Materials Letters</i> , 2017, 13, 270-276.	2.2	45
8	Conductometric ozone sensor based on mesoporous ultrafine Co ₃ O ₄ nanobricks. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126815.	7.8	44
9	Enhanced gas sensing properties at low working temperature of iron molybdate/MXene composite. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152785.	5.5	42
10	The n-butanol gas-sensing properties of monoclinic scheelite BiVO ₄ nanoplates. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 103, 71-75.	2.7	39
11	The effect of electrolyte concentration on electrochemical impedance for evaluating polysulfone membranes. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1145-1151.	2.4	39
12	Preparation and sensing properties of hierarchical 3D assembled porous ZnO from zinc hydroxide carbonate. <i>RSC Advances</i> , 2014, 4, 5122.	3.6	36
13	Crystal plane control of 3D iron molybdate and the facet effect on gas sensing performances. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 755-762.	7.8	32
14	Synthesis of novel RuO ₂ /NaBi(MoO ₄) ₂ nanosheets composite and its gas sensing performances towards ethanol. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 275-283.	7.8	29
15	One-pot synthesis of echinus-like Fe-doped SnO ₂ with enhanced photocatalytic activity under simulated sunlight. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3318-3323.	5.5	29
16	Highly sensitive and selective toluene sensor based on Ce-doped coral-like SnO ₂ . <i>RSC Advances</i> , 2015, 5, 16446-16449.	3.6	28
17	Preparation and hydrogen sulfide gas-sensing performances of RuO ₂ /NaBi(MoO ₄) ₂ nanoplates. <i>Journal of Alloys and Compounds</i> , 2016, 688, 504-509.	5.5	28
18	Excellent self-healing and antifogging coatings based on polyvinyl alcohol/hydrolyzed poly(styrene-co-maleic anhydride). <i>Journal of Materials Science</i> , 2019, 54, 5961-5970.	3.7	27

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19	Nanostructure Bi ₂ WO ₆ : Surfactant-assisted hydrothermal synthesis for high sensitive and selective sensing of H ₂ S. <i>Sensors and Actuators B: Chemical</i> , 2019, 294, 224-230.	7.8	25
20	Hydrothermal synthesis of hierarchically porous Rh-doped ZnO and its high gas sensing performance to acetone. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 2633-2639.	2.2	24
21	Correlation between the pore resistance and water flux of the cellulose acetate membrane. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 1037-1041.	2.4	21
22	Effect of gas sensing properties by Sn-Rh codoped ZnO nanosheets. <i>Electronic Materials Letters</i> , 2016, 12, 343-349.	2.2	20
23	Interfacial enhancement effect of graphene quantum dots on PEDOT:PSS/single-walled carbon nanotubes thermoelectric materials. <i>Synthetic Metals</i> , 2021, 280, 116861.	3.9	20
24	Enhanced Thermoelectric Properties of Bilayer-Like Structural Graphene Quantum Dots/Single-Walled Carbon Nanotubes Hybrids. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39145-39153.	8.0	19
25	Surfactant-free hydrothermal synthesis and gas-sensing properties of NaBi(MoO ₄) ₂ nanocrystals. <i>Materials Letters</i> , 2016, 168, 72-75.	2.6	18
26	The microwave dielectric properties of transparent ZnAl ₂ O ₄ ceramics fabricated by spark plasma sintering. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9589-9595.	2.2	17
27	One-pot synthesis of NaBi(MoO ₄) ₂ nanorods and their gas-sensing properties. <i>Materials Letters</i> , 2018, 220, 172-174.	2.6	15
28	Temperature Dependence of the Pore Structure in Polyvinylidene Fluoride (PVDF)/Graphene Composite Membrane Probed by Electrochemical Impedance Spectroscopy. <i>Polymers</i> , 2018, 10, 1123.	4.5	15
29	Preparation and H ₂ S Gas-Sensing Performances of Coral-Like SnO ₂ @CuO Nanocomposite. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 1190-1197.	2.9	14
30	Electrochemical Performance of a Carbon Nanotube/La-Doped TiO ₂ Nanocomposite and its Use for Preparation of an Electrochemical Nicotinic Acid Sensor. <i>Sensors</i> , 2008, 8, 7085-7096.	3.8	13
31	Construction of rGO/Bi ₂ MoO ₆ 2D/2D nanocomposites for enhancement visible light-driven photocatalytic reduction of Cr (VI). <i>Materials Research Express</i> , 2018, 5, 115031.	1.6	13
32	The Construction of the Heterostructural Bi ₂ O ₃ /g-C ₃ N ₄ Composites with an Enhanced Photocatalytic Activity. <i>Nano</i> , 2018, 13, 1850063.	1.0	13
33	Crystal structure, electrochemical, and antibacterial activity of the sodium complex formed by o-vanillin salicylhydrazone. <i>Journal of Coordination Chemistry</i> , 2009, 62, 2268-2275.	2.2	11
34	A Two-Step Method Synthesis and Gas Sensing Properties of CoSnO ₃ Nanoparticles. <i>ChemistrySelect</i> , 2019, 4, 7591-7595.	1.5	11
35	Acetone gas sensor based on iron molybdate nanoparticles prepared by hydrothermal method with PVP as surfactant. <i>Materials Research Express</i> , 2018, 5, 125013.	1.6	10
36	Ultrasensitive acetone sensor based on holey zinc oxide nanosheets doped by gold nanoparticles. <i>Materials Letters</i> , 2021, 302, 130443.	2.6	10

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37	Synthesis, UV response, and room-temperature ethanol sensitivity of undoped and Pd-doped coral-like SnO ₂ . Journal of Nanoparticle Research, 2013, 15, 1.	1.9	9
38	Preparation and super hydrogen gas sensing properties of Rh-doped coral-like SnO ₂ . Journal of Materials Science: Materials in Electronics, 2017, 28, 8837-8843.	2.2	9
39	Tunable dielectric properties of porous ZnAl ₂ O ₄ ceramics for wave-transmitting devices. Journal of Materials Science: Materials in Electronics, 2019, 30, 6475-6481.	2.2	9
40	Abnormal photoelectrical properties and gas sensing of mesoporous Sn _{0.9} Ti _{0.1} O ₂ film under UV light. Materials Letters, 2013, 102-103, 47-49.	2.6	8
41	The graphene oxide membrane immersing in the aqueous solution studied by electrochemical impedance spectroscopy. Materials Research Express, 2018, 5, 045606.	1.6	8
42	In situ investigation of bismuth nanoparticles formation by transmission electron microscope. Micron, 2018, 105, 30-34.	2.2	8
43	Highly sensitive sensor based on NaBi(MoO ₄) ₂ /MWCNT composites. Materials Research Express, 2018, 5, 125016.	1.6	8
44	Preparation of KBi(MoO ₄) ₂ nanocrystallite by solvothermal process and its gas-sensing properties. Materials Research Express, 2018, 5, 065033.	1.6	7
45	Effect of Ce ³⁺ and Pd ²⁺ Doping on Coral-Like Nanostructured SnO ₂ as Acetone Gas Sensor. Journal of Nanoscience and Nanotechnology, 2013, 13, 1858-1862.	0.9	6
46	Thermally Sensitive n-Type Thermoelectric Aniline Oligomer-Block-Polyethylene Glycol-Block-Aniline Oligomer ABA Triblock Copolymers. Macromolecular Chemistry and Physics, 2018, 219, 1700635.	2.2	6
47	Characterization and Gas Sensitivity of Polyaniline/Coral-Like SnO ₂ Hybrid Material Prepared by In Situ Polymerization. Journal of Nanoscience and Nanotechnology, 2015, 15, 4493-4499.	0.9	5
48	Xylene-sensing of Fe ₂ (MoO ₄) ₃ nanoplates prepared via a hydrothermal method. Functional Materials Letters, 2017, 10, 1750022.	1.2	5
49	Synthesis and gas sensing properties of Bi ₂ Fe ₄ O ₉ nanosheets. Materials Research Express, 2019, 6, 095083.	1.6	5
50	Polyvinylidene fluoride membranes probed by electrochemical impedance spectroscopy. Materials Research Express, 2018, 5, 065507.	1.6	4
51	Effect of the corona treatment on the microstructure of PVDF probed by electrochemical impedance spectroscopy. Materials Research Express, 2019, 6, 015044.	1.6	4
52	Preparation of Fe-doped NaBi(MoO ₄) ₂ nanorods and their improved gas-sensing properties. Journal of Materials Science: Materials in Electronics, 2020, 31, 22143-22150.	2.2	4
53	Low-cost electrochemical sensor based on montmorillonite for antibiotic tetracycline hydrochloride detection. Journal of Materials Science: Materials in Electronics, 0, 1.	2.2	4
54	Synthesis of Au/SnO ₂ composites and their sensing properties toward n-butanol. Journal of Materials Science: Materials in Electronics, 2022, 33, 3237-3249.	2.2	4

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55	Morphology-controlled synthesis and gas-sensing properties of Fe ₂ (MoO ₄) ₃ microspheres. Journal of Materials Science: Materials in Electronics, 2019, 30, 14022-14029.	2.2	3
56	The preparation and ozone-sensing performance of Co ₃ O ₄ nanobricks. Journal of Materials Science: Materials in Electronics, 2019, 30, 9678-9682.	2.2	3
57	Mesoporous Nanocrystalline SnO ₂ Prepared by Polyethylene Glycol Addition and Their Gas Sensing Properties. Nanoscience and Nanotechnology Letters, 2013, 5, 907-911.	0.4	3
58	Hands-On Laboratory Class for Electrochemical Impedance Spectroscopy Characterizing Membrane Pore Structure. Journal of Chemical Education, 2022, 99, 2715-2720.	2.3	3
59	Synthesis, characterization, electrochemical and crystal structure investigation of bis(2-((2-aminoethylimino)methyl)-6-methoxyphenolato) cobalt(III). Journal of Coordination Chemistry, 2008, 61, 2506-2514.	2.2	2
60	Enhanced low-temperature gas-sensing performance of Fe ₂ (MoO ₄) ₃ layered microplates. Journal of Materials Science: Materials in Electronics, 0, , 1.	2.2	0