Lan Xiang

List of Publications by Year
in descending order

41 papers	1,479 citations	394421 19 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	2274 citing authors

#	Article	IF	Citations
1	Confined Formation of Ultrathin ZnO Nanorods/Reduced Graphene Oxide Mesoporous Nanocomposites for High-Performance Room-Temperature NO_2 Sensors. ACS Applied Materials & Interfaces, 2016, 8, 35454-35463.	8.0	210
2	Reduced Graphene Oxide/Mesoporous ZnO NSs Hybrid Fibers for Flexible, Stretchable, Twisted, and Wearable NO_2 E-Textile Gas Sensor. ACS Sensors, 2019, 4, 2809-2818.	7.8	114
3	UV light irradiation enhanced gas sensor selectivity of NO2 and SO2 using rGO functionalized with hollow SnO2 nanofibers. Sensors and Actuators B: Chemical, 2019, 290, 443-452.	7.8	112
4	Hierarchical ZnO Nanosheet-Nanorod Architectures for Fabrication of Poly(3-hexylthiophene)/ZnO Hybrid NO_2 Sensor. ACS Applied Materials & Interfaces, 2016, 8, 8600-8607.	8.0	106
5	A Review on the Fabrication of Hierarchical ZnO Nanostructures for Photocatalysis Application. Crystals, 2016, 6, 148.	2.2	91
6	3D Architectured Graphene/Metal Oxide Hybrids for Gas Sensors: A Review. Sensors, 2018, 18, 1456.	3.8	83
7	Different nanostructures of boehmite fabricated by hydrothermal process: effects of pH and anions. CrystEngComm, 2009, 11, 1338.	2.6	79
8	Effect of Mg^{2+} on Hydrothermal Formation of Î±-$CaSO_4$·$0.5H_2O$ Whiskers with High Aspect Ratios. Langmuir, 2014, 30, 9804-9810.	3.5	75
9	Sprayed, Scalable, Wearable, and Portable NO_2 Sensor Array Using Fully Flexible AgNPs-All-Carbon Nanostructures. ACS Applied Materials & Interfaces, 2018, 10, 34485-34493.	8.0	74
10	Near infrared light enhanced room-temperature NO2 gas sensing by hierarchical ZnO nanorods functionalized with PbS quantum dots. Sensors and Actuators B: Chemical, 2018, 255, 2538-2545.	7.8	73
11	Formation of calcium sulfate whiskers from CaCO3-bearing desulfurization gypsum. Research on Chemical Intermediates, 2011, 37, 449-455.	2.7	47
12	Facile synthesis of mesoporous ZnO sheets assembled by small nanoparticles for enhanced NO2 sensing performance at room temperature. Sensors and Actuators B: Chemical, 2018, 270, 207-215.	7.8	42
13	Successive effect of rolling up, oriented attachment and Ostwald ripening on the hydrothermal formation of szaibelyite MgBO2(OH) nanowhiskers. CrystEngComm, 2009, 11, 1910.	2.6	36
14	Ultra-rapid formation of ZnO hierarchical structures from dilution-induced supersaturated solutions. CrystEngComm, 2014, 16, 7115-7123.	2.6	36
15	Efficient and Reversible Electron Doping of Semiconductor-Enriched Single-Walled Carbon Nanotubes by Using Decamethylcobaltocene. Scientific Reports, 2017, 7, 6751.	3.3	36
16	Green co-precipitation byproduct-assisted thermal conversion route to submicron $Mg_2B_2O_5$ whiskers. CrystEngComm, 2011, 13, 1654-1663.	2.6	25
17	Ligand-directed rapid formation of ultralong ZnO nanowires by oriented attachment for UV photodetectors. Journal of Materials Chemistry C, 2016, 4, 5755-5765.	5.5	23
18	Designed synthesis of ZnO/Pd@ZIF-8 hybrid structure for highly sensitive and selective detection of methane in the presence of NO2. Sensors and Actuators B: Chemical, 2021, 344, 130220.	7.8	22

#	ARTICLE	IF	CITATIONS
19	Hybrid graphene/cadmium-free ZnSe/ZnS quantum dots phototransistors for UV detection. Scientific Reports, 2018, 8, 5107.	3.3	21
20	Li-rich layered oxides: Structure, capacity and voltage fading mechanisms and solving strategies. Particuology, 2022, 61, 1-10.	3.6	21
21	Tuning the Nanoarea Interfacial Properties for the Improved Performance of Li-Rich Polycrystalline Li-Mn-O Spinel. ACS Applied Materials & Interfaces, 2019, 11, 14796-14802.	8.0	17
22	Hydrothermal Synthesis of (001) Facet Highly Exposed ZnO Plates: A New Insight into the Effect of Citrate. Crystals, 2019, 9, 552.	2.2	15
23	Understanding Mn-Based Intercalation Cathodes from Thermodynamics and Kinetics. Crystals, 2017, 7, 221.	2.2	13
24	Synergistic Effect of Mn^{3+} Formation–Migration and Oxygen Loss on the Near Surface and Bulk Structural Changes in Single Crystalline Lithium-Rich Oxides. ACS Applied Materials & Interfaces, 2021, 13, 3891-3898.	8.0	13
25	Removal of SO_4^{2-} from Li2CO3 by Recrystallization in Na2CO3 Solution. Crystals, 2018, 8, 19.	2.2	12
26	Repair the Pores and Preserve the Morphology: Formation of High Crystallinity 1D Nanostructures via the Thermal Conversion Route. Crystal Growth and Design, 2011, 11, 709-718.	3.0	11
27	Simulation of the adsorption of CaCl2 on Mg(OH)2 planes. Journal of Materials Science, 2008, 43, 2387-2392.	3.7	10
28	Synthesization and crystallization mechanism of nano-scale Î³-AlOOH with various morphologies. International Journal of Minerals, Metallurgy and Materials, 2010, 17, 376-379.	4.9	9
29	Preparation of Hierarchical $CaSO_4$ Whisker and Its Reinforcing Effect on PVC Composites. Journal of Nanomaterials, 2018, 2018, 1-7.	2.7	9
30	Synergetic effect of high Ni ratio and low oxygen defect interface zone of single crystals on the capacity retention of lithium rich layered oxides. Journal of Colloid and Interface Science, 2021, 594, 485-492.	9.4	9
31	Synthesis and Surface Characterization of Î³-MnO2Nanostructures. Journal of Nanomaterials, 2013, 2013, 1-6.	2.7	8
32	Synthesis of Al(OH)3Nanostructures from Al(OH)3Microagglomerates via Dissolution-Precipitation Route. Journal of Nanomaterials, 2013, 2013, 1-6.	2.7	5
33	Influence of NH_4Cl on Hydrothermal Formation of_I±_-$CaSO_4$Â·0.5H2O Whiskers. Journal of Nanomaterials, 2015, 2015, 1-6.	2.7	4
34	Effects of Cationic Polyacrylamide on Hydrothermal Formation of Ultralong Î±â€‹$CaSO_4$Â·0.5H2O Whiskers. Crystal Research and Technology, 2019, 54, 1800224.	1.3	4
35	Graded Preparation and Industrial Applications of Large-Ball Polyolefin Catalyst Carriers. Catalysts, 2022, 12, 117.	3.5	4
36	Influence of sodium dodecyl sulfate on the fabrication of zinc oxide nanoparticles. Research on Chemical Intermediates, 2011, 37, 281-289.	2.7	3

#	Article	IF	Citations
37	Influence of the Mixing Ways of Reactants on ZnO Morphology. Journal of Nanomaterials, 2013, 2013, 1-6.	2.7	3
38	Influence of Sodium Dodecyl Sulfonate on the Formation of ZnO Nanorods from μ-Zn(OH)$_2$. Journal of Nanomaterials, 2013, 2013, 1-6.	2.7	2
39	Estimation of Reaction Heat in Ti-Bearing Blast Furnace Slag—Sulfuric Acid System Based on Mechanical Mixture Model. Mining, Metallurgy and Exploration, 2021, 38, 1247-1252.	0.8	2
40	PROGRESS IN THE HYDROTHERMAL FORMATION OF DISPERSIVE NANO-PARTICLES AND WHISKERS. , 2012, , .		0
41	Low-Dimensional Inorganic Nanofunctional Materials: Design, Assembly, and Application for Chemical Engineering (I). Journal of Nanomaterials, 2013, 2013, 1-2.	2.7	0