

Lan Xiang

List of Publications by Year in descending order

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Version: 2024-02-01

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	Li-rich layered oxides: Structure, capacity and voltage fading mechanisms and solving strategies. <i>Particology</i> , 2022, 61, 1-10.	3.6	21
2	Graded Preparation and Industrial Applications of Large-Ball Polyolefin Catalyst Carriers. <i>Catalysts</i> , 2022, 12, 117.	3.5	4
3	Synergistic Effect of Mn ³⁺ Formationâ€”Migration and Oxygen Loss on the Near Surface and Bulk Structural Changes in Single Crystalline Lithium-Rich Oxides. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3891-3898.	8.0	13
4	Estimation of Reaction Heat in Ti-Bearing Blast Furnace Slagâ€”Sulfuric Acid System Based on Mechanical Mixture Model. <i>Mining, Metallurgy and Exploration</i> , 2021, 38, 1247-1252.	0.8	2
5	Synergetic effect of high Ni ratio and low oxygen defect interface zone of single crystals on the capacity retention of lithium rich layered oxides. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 485-492.	9.4	9
6	Designed synthesis of ZnO/Pd@ZIF-8 hybrid structure for highly sensitive and selective detection of methane in the presence of NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130220.	7.8	22
7	Hydrothermal Synthesis of (001) Facet Highly Exposed ZnO Plates: A New Insight into the Effect of Citrate. <i>Crystals</i> , 2019, 9, 552.	2.2	15
8	Reduced Graphene Oxide/Mesoporous ZnO NSs Hybrid Fibers for Flexible, Stretchable, Twisted, and Wearable NO ₂ E-Textile Gas Sensor. <i>ACS Sensors</i> , 2019, 4, 2809-2818.	7.8	114
9	Tuning the Nanoarea Interfacial Properties for the Improved Performance of Li-Rich Polycrystalline Li-Mn-O Spinel. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14796-14802.	8.0	17
10	UV light irradiation enhanced gas sensor selectivity of NO ₂ and SO ₂ using rGO functionalized with hollow SnO ₂ nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 443-452.	7.8	112
11	Effects of Cationic Polyacrylamide on Hydrothermal Formation of Ultralong $\text{CaSO}_4 \cdot 0.5\text{H}_2\text{O}$ Whiskers. <i>Crystal Research and Technology</i> , 2019, 54, 1800224.	1.3	4
12	Facile synthesis of mesoporous ZnO sheets assembled by small nanoparticles for enhanced NO ₂ sensing performance at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 207-215.	7.8	42
13	Hybrid graphene/cadmium-free ZnSe/ZnS quantum dots phototransistors for UV detection. <i>Scientific Reports</i> , 2018, 8, 5107.	3.3	21
14	Near infrared light enhanced room-temperature NO ₂ gas sensing by hierarchical ZnO nanorods functionalized with PbS quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2538-2545.	7.8	73
15	Removal of SO ₄ ²⁻ from Li ₂ CO ₃ by Recrystallization in Na ₂ CO ₃ Solution. <i>Crystals</i> , 2018, 8, 19.	2.2	12
16	Sprayed, Scalable, Wearable, and Portable NO ₂ Sensor Array Using Fully Flexible AgNPs-All-Carbon Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34485-34493.	8.0	74
17	Preparation of Hierarchical CaSO ₄ Whisker and Its Reinforcing Effect on PVC Composites. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-7.	2.7	9
18	3D Architected Graphene/Metal Oxide Hybrids for Gas Sensors: A Review. <i>Sensors</i> , 2018, 18, 1456.	3.8	83

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19	Efficient and Reversible Electron Doping of Semiconductor-Enriched Single-Walled Carbon Nanotubes by Using Decamethylcobaltocene. <i>Scientific Reports</i> , 2017, 7, 6751.	3.3	36
20	Understanding Mn-Based Intercalation Cathodes from Thermodynamics and Kinetics. <i>Crystals</i> , 2017, 7, 221.	2.2	13
21	A Review on the Fabrication of Hierarchical ZnO Nanostructures for Photocatalysis Application. <i>Crystals</i> , 2016, 6, 148.	2.2	91
22	Confined Formation of Ultrathin ZnO Nanorods/Reduced Graphene Oxide Mesoporous Nanocomposites for High-Performance Room-Temperature NO ₂ Sensors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35454-35463.	8.0	210
23	Ligand-directed rapid formation of ultralong ZnO nanowires by oriented attachment for UV photodetectors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5755-5765.	5.5	23
24	Hierarchical ZnO Nanosheet-Nanorod Architectures for Fabrication of Poly(3-hexylthiophene)/ZnO Hybrid NO ₂ Sensor. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8600-8607.	8.0	106
25	Influence of NH ₄ Cl on Hydrothermal Formation of \pm -CaSO ₄ ·0.5H ₂ O Whiskers. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-6.	2.7	4
26	Ultra-rapid formation of ZnO hierarchical structures from dilution-induced supersaturated solutions. <i>CrystEngComm</i> , 2014, 16, 7115-7123.	2.6	36
27	Effect of Mg ²⁺ on Hydrothermal Formation of \pm -CaSO ₄ ·0.5H ₂ O Whiskers with High Aspect Ratios. <i>Langmuir</i> , 2014, 30, 9804-9810.	3.5	75
28	Influence of Sodium Dodecyl Sulfonate on the Formation of ZnO Nanorods from μ -Zn(OH) ₂ . <i>Journal of Nanomaterials</i> , 2013, 2013, 1-6.	2.7	2
29	Influence of the Mixing Ways of Reactants on ZnO Morphology. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-6.	2.7	3
30	Synthesis of Al(OH) ₃ Nanostructures from Al(OH) ₃ Microagglomerates via Dissolution-Precipitation Route. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-6.	2.7	5
31	Synthesis and Surface Characterization of ³ MnO ₂ Nanostructures. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-6.	2.7	8
32	Low-Dimensional Inorganic Nanofunctional Materials: Design, Assembly, and Application for Chemical Engineering (I). <i>Journal of Nanomaterials</i> , 2013, 2013, 1-2.	2.7	0
33	PROGRESS IN THE HYDROTHERMAL FORMATION OF DISPERSIVE NANO-PARTICLES AND WHISKERS. , 2012, , .		0
34	Green co-precipitation byproduct-assisted thermal conversion route to submicron Mg ₂ B ₂ O ₅ whiskers. <i>CrystEngComm</i> , 2011, 13, 1654-1663.	2.6	25
35	Repair the Pores and Preserve the Morphology: Formation of High Crystallinity 1D Nanostructures via the Thermal Conversion Route. <i>Crystal Growth and Design</i> , 2011, 11, 709-718.	3.0	11
36	Influence of sodium dodecyl sulfate on the fabrication of zinc oxide nanoparticles. <i>Research on Chemical Intermediates</i> , 2011, 37, 281-289.	2.7	3

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37	Formation of calcium sulfate whiskers from CaCO ₃ -bearing desulfurization gypsum. Research on Chemical Intermediates, 2011, 37, 449-455.	2.7	47
38	Synthesization and crystallization mechanism of nano-scale $\hat{1}^3$ -AlOOH with various morphologies. International Journal of Minerals, Metallurgy and Materials, 2010, 17, 376-379.	4.9	9
39	Successive effect of rolling up, oriented attachment and Ostwald ripening on the hydrothermal formation of szaibelyite MgBO ₂ (OH) nanowhiskers. CrystEngComm, 2009, 11, 1910.	2.6	36
40	Different nanostructures of boehmite fabricated by hydrothermal process: effects of pH and anions. CrystEngComm, 2009, 11, 1338.	2.6	79
41	Simulation of the adsorption of CaCl ₂ on Mg(OH) ₂ planes. Journal of Materials Science, 2008, 43, 2387-2392.	3.7	10