Jia-Xiang Liu

List of Publications by Year
in descending order

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60	823	567281 15	552781 26
papers	citations	h-index	g-index

60	60	60	419
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of temperature and carbonation curing on the mechanical properties of steel slag-cement binding materials. Construction and Building Materials, 2016, 124, 999-1006.	7.2	80
2	Carbon sequestration of steel slag and carbonation for activating RO phase. Cement and Concrete Research, 2021, 139, 106271.	11.0	71
3	A study of factors that influence the hydration activity of mono-component CaO and bi-component CaO/Ca2Fe2O5 systems. Cement and Concrete Research, 2017, 91, 123-132.	11.0	50
4	Turbo air classifier guide vane improvement and inner flow field numerical simulation. Powder Technology, 2012, 226, 10-15.	4.2	43
5	Effects of axial inclined guide vanes on a turbo air classifier. Powder Technology, 2015, 280, 1-9.	4.2	38
6	Preparation and properties of carbonated steel slag used in cement cementitious materials. Construction and Building Materials, 2021, 283, 122667.	7.2	38
7	Influence of temperature and layers on the characterization of ITO films. Journal of Materials Processing Technology, 2009, 209, 3943-3948.	6.3	37
8	Design of a rotor cage with non-radial arc blades for turbo air classifiers. Powder Technology, 2016, 292, 46-53.	4.2	35
9	Velocity measurements and flow field characteristic analyses in a turbo air classifier. Powder Technology, 2007, 178, 10-16.	4.2	31
10	Effects of operating parameters on flow field in a turbo air classifier. Minerals Engineering, 2008, 21, 598-604.	4.3	31
11	Study on the cut size of a turbo air classifier. Powder Technology, 2013, 237, 520-528.	4.2	31
12	Establishment of a prediction model for the cut size of turbo air classifiers. Powder Technology, 2014, 254, 274-280.	4.2	21
13	Transparent conductive indium tin oxide film fabricated by dip-coating technique from colloid precursor. Surface and Coatings Technology, 2006, 201, 25-29.	4.8	18
14	A new volute design method for the turbo air classifier. Powder Technology, 2019, 348, 65-69.	4.2	17
15	Hydration Activity and Expansibility Model for the RO Phase in Steel Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 1697-1704.	2.1	16
16	A new strategy of binary-size particles model for fabricating fine grain, high density and low resistivity ITO target. Ceramics International, 2020, 46, 13660-13668.	4.8	16
17	Sintering, microstructure and electricity properties of ITO targets with Bi 2 O 3 â€“Nb 2 O 5 addition. Ceramics International, 2017, 43, 5856-5861.	4.8	15
18	Simulation and property prediction of MgO-FeO-MnO solid solution in steel slag. Materials Letters, 2020, 273, 127930.	2.6	15

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19	Surface modification of superfine SiC powders by ternary modifiers-KH560/sodium humate/SDS and its mechanism. Ceramics International, 2021, 47, 23834-23843.	4.8	15
20	Effect of CaO-FeO-MnO system solid solution on the hydration activity of tri-component f-CaO in steel slag. Construction and Building Materials, 2019, 225, 476-484.	7.2	14
21	Effect of surfactants on the structure and photoelectric properties of ITO films by sol-gel method. Rare Metals, 2010, 29, 143-148.	7.1	13
22	Expansibility of cement paste with tri-component f-CaO in steel slag. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	3.1	12
23	Preparation of indium tin oxide targets with a high density and single phase structure by normal pressure sintering process. Rare Metals, 2011, 30, 126-130.	7.1	11
24	Surface Modification of SiC Powder with Sodium Humate: Adsorption Kinetics, Equilibrium, and Mechanism. Langmuir, 2018, 34, 9645-9653.	3.5	11
25	Study on the application mechanism and mechanics of steel slag in composite cementitious materials. SN Applied Sciences, 2020, 2, 1.	2.9	10
26	Enhancing indium tin oxide (ITO) thin film adhesiveness using the coupling agent silane. Applied Surface Science, 2010, 256, 2934-2938.	6.1	9
27	Photoluminescence properties of hexagonal indium tin oxide nanopowders prepared by solvothermal method. Rare Metals, 2018, 37, 47-53.	7.1	9
28	Effect of rotor cage's outer and inner radii on the inner flow field of the turbo air classifier. Materialwissenschaft Und Werkstofftechnik, 2020, 51, 908-919.	0.9	9
29	Empirical study of classification process for two-stage turbo air classifier in series. Chinese Journal of Mechanical Engineering (English Edition), 2013, 26, 526-531.	3.7	7
30	Simulated Experiment Study of Factors Influencing the Hydration Activity of f-CaO in Basic Oxygen Furnace Slag. Advances in Materials Science and Engineering, 2016, 2016, 1-15.	1.8	7
31	Fabrication of monodisperse ITO submicro-spheres using l-Histidine-assisted one-step solvothermal method. Ceramics International, 2019, 45, 17562-17566.	4.8	7
32	Controllable phase transition ITO nano powders and temperature-structure sensitivity. Chemical Physics Letters, 2020, 742, 137174.	2.6	7
33	Hydration activity and mechanical properties of steel slag used as cementitious materials. Environmental Progress and Sustainable Energy, 2022, 41, e13756.	2.3	7
34	Synthesis of hexagonal-phase indium tin oxide nanoparticles by deionized water and glycerol binary solvothermal method and their resistivity. Journal of Materials Science, 2020, 55, 3860-3870.	3.7	6
35	Study on mathematical model of hydration expansion of steel slag-cement composite cementitious material. Environmental Technology (United Kingdom), 2020, 42, 1-8.	2.2	6
36	Preparation and catalytic activity of CO-resistant catalyst core-shell Au@Pt/C for methanol oxidation. Rare Metals, 2012, 31, 451-456.	7.1	5

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37	Effect of poly(diallyldimethylammonium chloride) adsorption on the dispersion features of SiC particles in aqueous media. New Journal of Chemistry, 2021, 45, 4638-4646.	2.8	5
38	Classification performance comprehensive evaluation of an air classifier based on fuzzy analytic hierarchy process. Materialwissenschaft Und Werkstofftechnik, 2013, 44, 897-902.	0.9	4
39	Effects of the impeller blade geometry on the performance of a turbo pneumatic separator. Chemical Engineering Communications, 2018, 205, 1641-1652.	2.6	4
40	Influence of Bi2O3, TiO2 Additives and Sintering Process on the Performance of ITO Target Based on Normal Pressure Sintering Method. Transactions of the Indian Ceramic Society, 2019, 78, 83-88.	1.0	4
41	Study on modification effect and mechanism of binary modifier co-modified silicon carbide powder. Materials Research Express, 2019, 6, 035204.	1.6	4
42	Optimization Preparation of Indium Tin Oxide Nanoparticles via Microemulsion Method Using Orthogonal Experiment. Crystals, 2021, 11, 1387.	2.2	4
43	Correspondence analysis and establishment of evaluation model of classification performance indices for a turbo air classifier. Materialwissenschaft Und Werkstofftechnik, 2014, 45, 900-911.	0.9	3
44	A parametric cut size prediction model for a turbo air classifier. Materialwissenschaft Und Werkstofftechnik, 2018, 49, 1510-1519.	0.9	3
45	Effect of dispersion on visible light transmittance and resistivity of indium tin oxide nanoparticles prepared by cetyltrimethylammonium bromide-assisted coprecipitation method. Journal of Materials Science: Materials in Electronics, 2019, 30, 17963-17971.	2.2	3
46	Dense ternary-size particles interstitial filling gradation stacking model for preparing high-quality indium tin oxide targets. Chemical Engineering Science, 2022, 248, 117165.	3.8	3
47	Analysis of numerical simulation models for the turbo air classifier. Materialwissenschaft Und Werkstofftechnik, 2022, 53, 644-657.	0.9	3
48	Preparation and characterization of uniform circinate aggregates of sheet ZnO nanoparticles. Rare Metals, 2008, 27, 36-40.	7.1	2
49	Analysis and optimization of process parameters affecting classification performances indices of the turbo air classifier. Materialwissenschaft Und Werkstofftechnik, 2015, 46, 970-977.	0.9	2
50	Adsorption Isotherm, Kinetic and Mechanism Studies on the Surface Modification of SiC powder with Disperse Black BL. ChemistrySelect, 2020, 5, 1157-1163.	1.5	2
51	Optimum preparation of low-resistivity indium tin oxide nanopowders via polyacrylamide gel route using orthogonal experiment. Journal of Materials Science: Materials in Electronics, 2021, 32, 22232-22244.	2.2	2
52	Adsorption of epichlorohydrin-dimethylamine at the SiC-water interface: A study on wetting, electrokinetics, dispersion stability. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 625, 126947.	4.7	2
53	Effect of Particle Size on Target Sintering Behavior of Cubic ITO Nanopowders. Journal Wuhan University of Technology, Materials Science Edition, 2020, 35, 1098-1103.	1.0	2
54	A novel strategy to obtain superfine modified SiC powder with binary modifier-disperse black/sodium alginate and its mechanism study. Materials Research Express, 2019, 6, 115108.	1.6	1

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55	Effect of octadecylamine polyoxyethylene ether on the adsorption feature of sodium polystyrene sulfonate on the SiC surface and the relevant dispersion stability of slurry. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 633, 127799.	4.7	1
56	Effect of particle composition on microstructure and resistivity of indium tin oxide targets. Chemical Physics Letters, 2022, 801, 139743.	2.6	1
57	Sintering and Electricity Properties of ITO Targets with Bi2O3â€“ZnO Addition. Powder Metallurgy and Metal Ceramics, 2019, 58, 64-72.	0.8	0
58	Preparation of excellent electrical conductivity aluminum doped zinc oxide powders by one-step solvothermal method. Materials Research Express, 2019, 6, 086302.	1.6	0
59	Dispersibility of pretreated polyacrylic acidâ€modified SiC powder. International Journal of Applied Ceramic Technology, 2020, 17, 2690-2696.	2.1	0
60	Adsorption of anionic polyelectrolyte on an SiC surface and effects on dispersion stability. Journal of the American Ceramic Society, 2022, 105, 5611-5626.	3.8	0