

Ting'an Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6230010/publications.pdf>

Version: 2024-02-01

78
papers

686
citations

567281

15
h-index

713466

21
g-index

81
all docs

81
docs citations

81
times ranked

427
citing authors

#	ARTICLE	IF	CITATIONS
1	Recovery of alkali and alumina from Bayer red mud by the calcification-carbonation method. International Journal of Minerals, Metallurgy and Materials, 2016, 23, 257-268.	4.9	35
2	Extraction of vanadium from vanadium slag by high pressure oxidative acid leaching. International Journal of Minerals, Metallurgy and Materials, 2015, 22, 21-26.	4.9	34
3	Experimental and CFD studies of solid-liquid slurry tank stirred with an improved Intermig impeller. Transactions of Nonferrous Metals Society of China, 2014, 24, 2650-2659.	4.2	31
4	Calcification-Carbonation Method for Cleaner Alumina Production and CO2 Utilization. Jom, 2014, 66, 1616-1621.	1.9	29
5	Effects of Microwave Roasting on the Kinetics of Extracting Vanadium from Vanadium Slag. Jom, 2016, 68, 577-584.	1.9	27
6	Pressure leaching of converter vanadium slag with waste titanium dioxide. Rare Metals, 2016, 35, 576-580.	7.1	25
7	A perspective of stepwise utilization of hazardous zinc plant purification residue based on selective alkaline leaching of zinc. Journal of Hazardous Materials, 2020, 389, 122090.	12.4	23
8	Extraction Separation of Sc(III) and Fe(III) from a Strongly Acidic and Highly Concentrated Ferric Solution by D2EHPA/TBP. Jom, 2018, 70, 2837-2845.	1.9	22
9	Kinetics of indium dissolution from marmatite with high indium content in pressure acid leaching. Rare Metals, 2017, 36, 69-76.	7.1	21
10	Extraction of vanadium from direct acid leach solution of converter vanadium slag. Canadian Metallurgical Quarterly, 2017, 56, 281-293.	1.2	20
11	Numerical and Physical Study on a Cylindrical Tundish Design to Produce a Swirling Flow in the SEN During Continuous Casting of Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2695-2706.	2.1	19
12	Moderate Dilution of Copper Slag by Natural Gas. Jom, 2018, 70, 47-52.	1.9	19
13	Magnesium Production by Silicothermic Reduction of Dolime in Pre-prepared Dolomite Pellets. Jom, 2016, 68, 3208-3213.	1.9	18
14	Research Progress on the Extractive Metallurgy of Titanium and Its Alloys. Mineral Processing and Extractive Metallurgy Review, 2021, 42, 535-551.	5.0	16
15	Clean production of porous-Al(OH) ₃ from fly ash. Journal of Hazardous Materials, 2020, 393, 122371.	12.4	15
16	Preparation of magnetic zeolite/chitosan composite using silane as modifier for adsorption of Cr(VI) from aqueous solutions. Journal of Vinyl and Additive Technology, 2021, 27, 640-654.	3.4	14
17	A new energy-efficient and environmentally friendly process to produce magnesium. Canadian Metallurgical Quarterly, 2017, 56, 418-425.	1.2	13
18	PIV measurements on physical models of bottom blown oxygen copper smelting furnace. Canadian Metallurgical Quarterly, 2017, 56, 221-231.	1.2	13

#	ARTICLE	IF	CITATIONS
19	Simultaneous separation of Fe & Al and extraction of Fe from waste coal fly ash: Altering the charge sequence of ions by electrolysis. <i>Waste Management</i> , 2022, 137, 50-60.	7.4	13
20	Numerical Study on the Influence of a Swirling Flow Tundish on Multiphase Flow and Heat Transfer in Mold. <i>Metals</i> , 2018, 8, 368.	2.3	12
21	Enhanced Desilication of High Alumina Fly Ash by Combining Physical and Chemical Activation. <i>Metals</i> , 2019, 9, 411.	2.3	12
22	Mechanism of fluidized chlorination reaction of Kenya natural rutile ore. <i>Rare Metals</i> , 2014, 33, 485-492.	7.1	10
23	Effect of Immersion Depth of a Swirling Flow Tundish SEN on Multiphase Flow and Heat Transfer in Mold. <i>Metals</i> , 2018, 8, 910.	2.3	10
24	Kinetics of carbonated decomposition of hydrogarnet with different silica saturation coefficients. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020, 27, 472-482.	4.9	10
25	Preparation of amorphous nano-boron powder with high activity by combustion synthesis. <i>Journal of Central South University</i> , 2014, 21, 900-903.	3.0	9
26	Process Optimization of Seed Precipitation Tank with Multiple Impellers Using Computational Fluid Dynamics. <i>Jom</i> , 2015, 67, 1451-1458.	1.9	9
27	Dissolution Behavior of Al ₂ O ₃ Inclusions in CaO-Al ₂ O ₃ Based Slag Representing Aluminothermic Reduction Slag. <i>Crystals</i> , 2020, 10, 1061.	2.2	9
28	Adsorption of Au(III) ions on xanthated crosslinked chitosan resin in hydrochloric acid medium. <i>Rare Metals</i> , 2021, 40, 743-748.	7.1	9
29	Direct spray pyrolysis of aluminum chloride solution for alumina preparation. <i>Journal of Central South University</i> , 2014, 21, 4450-4455.	3.0	8
30	Direct Calcification- Carbonation Method for Processing of Bayer Process Red Mud. <i>Russian Journal of Non-Ferrous Metals</i> , 2018, 59, 142-147.	0.6	8
31	Wet Grinding of Calcified Slag to Improve Alumina Extraction from Red Mud by the Calcification- Carbonization Method. <i>Jom</i> , 2020, 72, 970-977.	1.9	8
32	A Novel Method of Extracting Iron from High-Iron Red Mud and Preparing Low-Carbon Cement Clinker from Tailings. <i>Jom</i> , 2022, 74, 2750-2759.	1.9	8
33	Extraction and Utilization of Valuable Elements from Bauxite and Bauxite Residue: A Review. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2022, 109, 228-237.	2.7	8
34	Improvement of Impeller Blade Structure for Gas Injection Refining under Mechanical Stirring. <i>Journal of Iron and Steel Research International</i> , 2014, 21, 135-143.	2.8	7
35	Numerical simulation of preparation of ultrafine cerium oxides using jet-flow pyrolysis. <i>Rare Metals</i> , 2019, 38, 1160-1168.	7.1	7
36	Computational Fluid Dynamics (CFD) Simulations on Multiphase Flow in Mechanically Agitated Seed Precipitation Tank. <i>Jom</i> , 2014, 66, 1218-1226.	1.9	6

#	ARTICLE	IF	CITATIONS
37	Numerical simulation: preparation of La ₂ O ₃ in a jet pyrolysis reactor. <i>Rare Metals</i> , 2015, 34, 600-606.	7.1	6
38	Distribution and Control Mechanism of Al and O Residuals in Ferrotitanium Prepared by Aluminothermic Reduction with Insufficient Al. <i>Jom</i> , 2019, 71, 809-814.	1.9	6
39	Separation and Extraction of Scandium from Titanium Dioxide Waste Acid. <i>Jom</i> , 2021, 73, 1301-1309.	1.9	6
40	Numerical simulation of fluid dynamics in rare earth chloride solution in jet-flow pyrolysis reactor. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 997-1003.	4.2	5
41	Estimation Model for Electrical Conductivity of CaF ₂ -CaO-Al ₂ O ₃ Slags. <i>Jom</i> , 2016, 68, 2365-2370.	1.9	5
42	Preparation of Metal Lead from Waste Lead Paste by Direct Electrochemical Reduction in NH ₃ -NH ₄ Cl Solution. <i>Jom</i> , 2019, 71, 4518-4527.	1.9	5
43	Simulation of Process and Reactor Structure Optimization for CeO ₂ Preparation from Jet-Flow Pyrolysis. <i>Jom</i> , 2019, 71, 1660-1666.	1.9	5
44	Effect of magnesium injection process on hot metal desulfurization. <i>Journal of Iron and Steel Research International</i> , 2020, 27, 1391-1399.	2.8	5
45	Physical simulation of bubble refinement in bottom blowing process with mechanical agitation. <i>Journal of Iron and Steel Research International</i> , 2020, 27, 1137-1144.	2.8	5
46	Kinetics of hot metal desulfurization by bottom-blowing magnesium vapor. <i>Journal of Iron and Steel Research International</i> , 2020, 27, 392-401.	2.8	5
47	Multistage desulfurization mechanism to reduce sulfur content of high ferrotitanium prepared using thermite method. <i>Rare Metals</i> , 2021, 40, 2313-2319.	7.1	5
48	Comprehensive Application Technology of Bauxite Residue Treatment in the Ecological Environment: A Review. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2022, 109, 209-214.	2.7	5
49	Progress in the Preparation of Large-Size High-Performance CuCr Alloys. <i>Advances in Materials Science and Engineering</i> , 2022, 2022, 1-18.	1.8	5
50	Hydrothermal conversion of Ti-containing minerals in system of Na ₂ O-Al ₂ O ₃ -SiO ₂ -CaO-TiO ₂ -H ₂ O. <i>Rare Metals</i> , 2016, 35, 495-501.	7.1	4
51	Roasting Pre-Treatment of High-Sulfur Bauxite for Sulfide Removal and Digestion Performance of Roasted Ore. <i>Russian Journal of Non-Ferrous Metals</i> , 2018, 59, 493-501.	0.6	4
52	Simulation of the Scale-up Process of a Venturi Jet Pyrolysis Reactor. <i>Metals</i> , 2019, 9, 979.	2.3	4
53	Utilization Rate of Magnesium in Hot Metal Desulfurization by Magnesium Vapor Injection. <i>ISIJ International</i> , 2020, 60, 915-921.	1.4	4
54	Mechanisms of Metal-Slag Separation Behavior in Thermite Reduction for Preparation of TiAl Alloy. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 9315-9325.	2.5	4

#	ARTICLE	IF	CITATIONS
55	Kinetics of the Leaching Process of an Australian Gibbsite Bauxite by Hydrochloric Acid. <i>Advances in Materials Science and Engineering</i> , 2016, 2016, 1-6.	1.8	3
56	Phase transition of bastnaesite concentrate in calcification process. <i>Rare Metals</i> , 2016, 35, 649-654.	7.1	3
57	An Alternative Technique for the Extraction of Valuable Elements from Fly Ash: the Carbochlorination Method. <i>Russian Journal of Non-Ferrous Metals</i> , 2019, 60, 52-60.	0.6	3
58	Liquidâ€“Liquid Flow in a Continuous Stirring Settler: CFD-PBM Simulation and Experimental Verification. <i>Jom</i> , 2019, 71, 1650-1659.	1.9	3
59	Numerical Simulations of Irregular CeO ₂ Particle Size Distributions. <i>Jom</i> , 2019, 71, 34-39.	1.9	3
60	Extraction Separation of Ti(IV) and Fe(II) Using D2EHPA from the Raffinate Obtained After Extraction of Scandium from Titanium Dioxide Waste Acid. <i>Jom</i> , 2022, 74, 1061-1069.	1.9	3
61	High-Temperature Jet Spray Reactor for the Preparation of Rare Earth Oxides by Pyrolysis: Computer Simulation. <i>Jom</i> , 2014, 66, 1647-1653.	1.9	2
62	Variation law of gas holdup in an autoclave during the pressure leaching process by using a mixed-flow agitator. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 876-883.	4.9	2
63	CFD-PBM Simulation and PIV Measurement of Liquidâ€“Liquid Flow in a Continuous Stirring Settler. <i>Jom</i> , 2019, 71, 4500-4508.	1.9	2
64	Kinetics of Magnesium and Calcium Extraction from Fly Ash by Carbochlorination. <i>Jom</i> , 2019, 71, 2798-2805.	1.9	2
65	Cu ²⁺ -catalyzed mechanism in oxygen-pressure acid leaching of artificial sphalerite. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020, 27, 910-923.	4.9	2
66	Research on the oxidation characteristics of zinc sulfite in the zinc oxide desulfurization process. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 183-191.	2.2	2
67	Thermodynamic analysis of nucleation during pyrolysis process of aluminum chloride solution. <i>MRS Communications</i> , 2021, 11, 679.	1.8	2
68	Pyrolysis Preparation Process of CeO ₂ with the Addition of Citric Acid: A Fundamental Study. <i>Crystals</i> , 2021, 11, 912.	2.2	2
69	In-Situ Synthesis and Characterizations of a Novel Aluminum Bronze Composite Reinforced with Micro-Size Tungsten Particles. <i>Jom</i> , 2022, 74, 4146-4153.	1.9	2
70	A new method of preparing NdB ₆ ultra-fine powders. <i>Rare Metals</i> , 2022, 41, 2363-2369.	7.1	1
71	Effect of mechanical activation on leaching of zinc and indium from indium-bearing zinc ferrite with sulphur dioxide as leachant and reductant. <i>Canadian Metallurgical Quarterly</i> , 0, , 1-10.	1.2	1
72	Synthesis of As-Cast WCu Composite Containing Micro- and Nano-Size Tungsten Particles Using Aluminothermic Reduction. <i>Jom</i> , 2022, 74, 931.	1.9	1

#	ARTICLE	IF	CITATIONS
73	A1 Control in High Titanium Ferro with Low Oxygen Prepared by Thermite Reaction. , 2015, , 11-17.		0
74	Process strengthening for electrochemical reduction of solid TiO ₂ to Ti in situ. Rare Metals, 2018, , 1.	7.1	0
75	Preparation and properties of ultra-fine chromium carbonization of high performance mechanical activation. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 56-63.	1.0	0
76	The Effect of Pyrolysis Conditions on the Preparation of Fe ₂ O ₃ Particles Using Simulated Pickling Liquor in a Venturi Reactor. Frontiers in Materials, 2021, 8, .	2.4	0
77	Effect of anodic potential on the characteristics of passive films grown on a brass alloy in a soil environment. Materials and Corrosion - Werkstoffe Und Korrosion, 0, , .	1.5	0
78	Calcification-Carbonation Method for Bayer Red Mud Treatment: Carbonation Performance of Hydrogarnets. Bulletin of Environmental Contamination and Toxicology, 2022, , .	2.7	0